ORACLE
Cloud Infrastructure

Licensing Information for Oracle Cloud Infrastructure

April 06, 2025

Contents

Introduction 3

Licensing Information 3

Third-Party Notices and/or Licenses 3

A to B 3

C to E 773

F to G 2368

H to J 3449

K to N 4269

O to Q 5656

R to S 6287

T to Y 7082

Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle services or license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle services or software program(s) covered by this document (the "Program(s)"). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the applicable cloud service, the Oracle Software Delivery Cloud website (https://edelivery.oracle.com), or from media Oracle may provide. If you have a question about your rights and obligations, please contact your Oracle sales representative and/or contact the applicable Oracle License Management Services representative listed on http://www.oracle.com/us/corporate/license-management-services/index.html.

Licensing Information

Third-Party Notices and/or Licenses

A to B

Provider: .NET Foundation Contributors / Component(s): System.Threading.Tasks.Dataflow 5.0.0

```
The MIT License (MIT)

Copyright (c) .NET Foundation and Contributors

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: .NET Foundation Contributors / Component(s): Visual Studio Code Omnisharp 1.25.0

```
MIT License
```

```
Copyright (c) .NET Foundation and Contributors
All Rights Reserved

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------Separator-----------------------
4TH-PARTY SOFTWARE NOTICES AND INFORMATION
Do Not Translate or Localize

1. omnisharp-roslyn  (https://github.com/OmniSharp/omnisharp-roslyn)
2. ScriptCS (https://github.com/scriptcs/scriptcs)
3. run-in-terminal (https://github.com/microsoft/run-in-terminal)
4. semver  (https://github.com/npm/node-semver)
5. DefinitelyTyped (https://github.com/borisyankov/DefinitelyTyped)

------------Separator-----------------------
omnisharp-roslyn NOTICES AND INFORMATION BEGINS HERE

Copyright (c) Omnisharp Team

All rights reserved.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation
files (the "Software"), to deal in the Software without restriction,
 including without
limitation the rights to use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies of the
 Software, and
to permit persons to whom the Software
is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES
```

```
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
 NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT
OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 SOFTWARE.
------------Separator-----------------------
scriptcs NOTICES AND INFORMATION BEGINS HERE
------------Separator-----------------------
Copyright 2013 Glenn Block, Justin Rusbatch, Filip Wojcieszyn

Licensed under the Apache License, Version 2.0 (the "License");


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
```

```
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------Separator-----------------------

run-in-terminal NOTICES AND INFORMATION BEGINS HERE
------------Separator-----------------------
The MIT License (MIT)

Copyright (c) 2015 Microsoft Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
------------Separator-----------------------
semver NOTICES AND INFORMATION BEGINS HERE
------------Separator-----------------------
The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
```

```
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
------------Separator-----------------------
DefinitelyTyped NOTICES AND INFORMATION BEGINS HERE
------------Separator-----------------------

This project is licensed under the MIT license.
Copyrights are respective of each contributor listed at the beginning of
 each definition
file.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
------------Separator-----------------------
```

Provider: AB Strakt, Jean-Paul Calderone / Component(s): pyOpenSSL 18.0.0

```
PyOpenSSL v18.0.0
Copyright (C) AB Strakt
Copyright (C) Jean-Paul Calderone

Apache 2.0

                           Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


------------------------
4P Dependencies:


six>-1.5.2
COPYRIGHT and LICENSE:
Copyright (c) 2010-2013 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
```

```
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---
PyCA ccryptography>-2.2.1

COPYRIGHT:
Copyright (c) Individual contributors.
Note: see Authors file for specific individual contributors https://
github.com/pyca/cryptography/blob/2.4.2/AUTHORS.rst

LICENSE:

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to cryptography are
 made
under the terms of *both* these licenses.  Oracle elects the Apache 2.0
 license.

The code used in the OpenSSL locking callback and OS random engine is
 derived
from CPython, and is licensed under the terms of the PSF License Agreement.


-------
PSF:

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   2.7.12 software in source or binary form and its associated
 documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 2.7.12 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2016 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 2.7.12 alone or in any derivative
 version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 2.7.12 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
   agrees to include in any such work a brief summary of the changes made to
 Python
   2.7.12.

4. PSF is making Python 2.7.12 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
```

```
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 2.7.12 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.12
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.12, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 2.7.12, Licensee agrees
to be bound by the terms and conditions of this License Agreement.
```

Provider: Acegi Technology Pty Limited / Component(s): acegi-security 1.0.7

```
/*
 * Copyright 2004, 2005, 2006 Acegi Technology Pty Limited
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
************************************************

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
```

```
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
```

```
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.
```

```
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

****************************************

=========================================================================
   == NOTICE file corresponding to section 4(d) of the Apache License, ==
   == Version 2.0, in this case for the Spring Security distribution.  ==
   =========================================================================

   The end-user documentation included with a redistribution, if any,
   must include the following acknowledgement:

     "This product includes software developed by Spring Security
      Project (http://www.springframework.org/security)."

   Alternately, this acknowledgement may appear in the software itself,
   if and wherever such third-party acknowledgements normally appear.

   The names "Spring", "Spring Security", "Spring Security System",
   "SpringSource", "Acegi", "Acegi Security", "Acegi Security System",
   "Acegi" or any derivatives thereof may not be used to endorse or
   promote products derived from this software without prior written
   permission. For written permission, please contact
   ben.alex@springsource.com.
```

Provider: Adam Knight / Component(s): httpsig_cffi 15.0.0-1

```
httpsig_cffi 15.0.0 - 1
# Modified Work: Copyright (c) 2018, 2019, Oracle and/or its affiliates.
 All rights reserved.

COPYRIGHT and LICENSE:
Copyright (c) 2014 Adam Knight
Copyright (c) 2012 Adam T. Lindsay (original author)


Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
```

```
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

******************************
4P Dependencies:
******************************


six 1.12.0
COPYRIGHT and LICENSE:
Copyright (c) 2010-2013 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



---
PyCA cryptography 2.5

COPYRIGHT:
Copyright (c) Individual contributors.
Note: see Authors file for specific individual contributors https://
github.com/pyca/cryptography/blob/2.4.2/AUTHORS.rst

LICENSE:

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to cryptography are
 made
under the terms of *both* these licenses.
```

```
The code used in the OpenSSL locking callback and OS random engine is
 derived
from CPython, and is licensed under the terms of the PSF License Agreement.

Apache 2.0 :

                           Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

-----------------
PSF:

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
```

```
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   2.7.12 software in source or binary form and its associated
 documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 2.7.12 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2016 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 2.7.12 alone or in any derivative
 version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 2.7.12 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
   agrees to include in any such work a brief summary of the changes made to
 Python
   2.7.12.

4. PSF is making Python 2.7.12 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 2.7.12 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.12
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.12, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 2.7.12, Licensee agrees
to be bound by the terms and conditions of this License Agreement.


---
asn1crypto >= 0.21.0
COPYRIGHT and LICENSE:
Copyright (c) 2015-2016 Will Bond <will@wbond.net>
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------
setuptools>=18.5
COPYRIGHT and LICENSE:
Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


------
wheel 0.32.3
COPYRIGHT and LICENSE:
"wheel" copyright (c) 2012-2014 Daniel Holth <dholth@fastmail.fm> and
contributors.

The MIT License
```

```
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

------
cffi>=1.8,!=1.11.3
COPYRIGHT and LICENSE:
Copyright (C) 2005-2007, James Bielman  <jamesjb@jamesjb.com>

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


------
idna >= 2.1
COPYRIGHT and LICENSE:
License

Copyright (c) 2013-2018, Kim Davies. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of the
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
```

```
    THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY EXPRESS OR
 IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.

Portions of the codec implementation and unit tests are derived from the
 Python standard library, which carries the Python Software Foundation
 License:

    Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved

Portions of the unit tests are derived from the Unicode standard, which is
 subject to the Unicode, Inc. License Agreement:

    Copyright (c) 1991-2014 Unicode, Inc. All rights reserved. Distributed
 under the Terms of Use in <http://www.unicode.org/copyright.html>.

    Permission is hereby granted, free of charge, to any person obtaining
 a copy of the Unicode data files and any associated documentation (the
 "Data Files") or Unicode software and any associated documentation (the
 "Software") to deal in the Data Files or Software without restriction,
 including without limitation the rights to use, copy, modify, merge,
 publish, distribute, and/or sell copies of the Data Files or Software, and
 to permit persons to whom the Data Files or Software are furnished to do
 so, provided that

    (a) this copyright and permission notice appear with all copies of the
 Data Files or Software,

    (b) this copyright and permission notice appear in associated
 documentation, and

    (c) there is clear notice in each modified Data File or in the Software
 as well as in the documentation associated with the Data File(s) or
 Software that the data or software has been modified.

    THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
 ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
 OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS
 INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT
 OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
 OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THE DATA FILES OR SOFTWARE.

    Except as contained in this notice, the name of a copyright holder
 shall not be used in advertising or otherwise to promote the sale, use
 or other dealings in these Data Files or Software without prior written
 authorization of the copyright holder.


---
enum34 1.1.6
COPYRIGHT and LICENSE:
Copyright (c) 2013, Ethan Furman.
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    Redistributions of source code must retain the above
    copyright notice, this list of conditions and the
    following disclaimer.

    Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name Ethan Furman nor the names of any
    contributors may be used to endorse or promote products
    derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

Provider: Alex Rogozhnikov / Component(s): einops 0.7.0

```
MIT License

Copyright (c) 2018 Alex Rogozhnikov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Alex Taggart / Component(s): tools.logging 0.2.3

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1. The following files are available in source code form under the Eclipse
 Public License at: http://www.oracle.com/technetwork/opensource/opensource-
code-1366576.html. (The EPL license is reproduced below).

2. All past Contributors to tools.logging disclaim all warranties and
 conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose. In addition, such
 Contributors are not liable for any damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.

3. Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4. {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5. {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement. Oracle is solely responsible for any representations and
 warranties contained therein.

Copyright © 2009 Alex Taggart
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT’S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:


a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
 b) in the case of each subsequent Contributor:

i)changes to the Program, and

ii)additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor’s behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
```

```
"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient’s responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:


a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
```

```
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:


a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor’s responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
```

```
6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient’s patent(s), then such Recipient’s rights granted
 under Section 2(b) shall terminate as of the date such litigation is
 filed.

All Recipient’s rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient’s rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient’s obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Alexander Polakov / Component(s): rust-seccomp-sys 0.1.2

```
                    GNU LESSER GENERAL PUBLIC LICENSE
                         Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                             Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
```

```
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
```

```
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)
```

```
These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
```

```
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.
```

```
  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
```

```
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
```

```
  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
```

Provider: Alexander Reelsen / Component(s): dropwizard-jobs 3.0.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
```

```
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2012 Alexander Reelsen

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Alipay.com / Component(s): rc-tree-select 2.2.4

```
React Component - Tree Select

MIT LICENSE

Copyright (c) 2015-present Alipay.com, https://www.alipay.com/

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


================================================
------------------------------------------------
================================================


Dependencies
```

```
babel-runtime 6.26.0

MIT License

Copyright (c) 2014-2018 Sebastian McKenzie and other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------------------

classnames 2.2.6

The MIT License (MIT)

Copyright (c) 2018 Jed Watson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------

enzyme 3.5.0

The MIT License (MIT)

Copyright (c) 2015 Airbnb, Inc.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------

enzyme-adapter-react-16 1.3.0

The MIT License (MIT)

Copyright (c) 2015 Airbnb, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------


enzyme-to-json 3.3.4

The MIT License (MIT)

Copyright (c) 2015 Airbnb, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------

jest 23.5.0

MIT License

For Jest software

Copyright (c) 2014-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------------


pre-commit 1.2.2

The MIT License (MIT)

Copyright (c) 2015 Arnout Kazemier, Martijn Swaagman, the Contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------------------

prop-types 15.6.2

MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------


raf 3.4.0

author - Chris Dickinson <chris@neversaw.us>
contributor - Christian Maughan Tegnér <christian.tegner@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR I
```

```
-------------------


rc-animate 3.0.0-rc.6

The MIT License (MIT)

Copyright (c) 2014-present yiminghe

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------

rc-dialog 7.2.0

The MIT License (MIT)

Copyright (c) 2014-present yiminghe

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------


rc-form 1.5.0

The MIT License (MIT)

Copyright (c) 2014-present yiminghe
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------


rc-select 7.7.8

The MIT License (MIT)

Copyright (c) 2014-present alipay.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------


rc-tools 8.1.6

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
```

```
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


------------------


rc-tree 1.14.4

MIT LICENSE

Copyright (c) 2015-present Alipay.com, https://www.alipay.com/

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-----------------------


rc-tree-select 2.2.0

MIT LICENSE

Copyright (c) 2015-present Alipay.com, https://www.alipay.com/

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------


rc-trigger 3.0.0-rc.3
```

```
The MIT License (MIT)
Copyright (c) 2015-present Alipay.com, https://www.alipay.com/

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


----------


rc-util 4.5.1

The MIT License (MIT)
Copyright (c) 2015-present Alipay.com, https://www.alipay.com/

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------


react 16.4.2

MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------


react-dom 16.4.2

MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------


react-lifecycles-compat 3.0.4

MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------


shallowequal 1.1.0

MIT License

Copyright (c) 2017 Alberto Leal <mailforalberto@gmail.com> (github.com/
dashed)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------


warning 4.0.2

MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------
```

Provider: Alissa Bonas / Component(s): kubeclient 4.9.3

```
kubeclient
==================================
Copyright (c) 2014 Alissa Bonas

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------------------------
3rd Party Softaware

http
================
MIT License

Copyright (c) 2011-2022 Tony Arcieri, Erik Michaels-Ober, Alexey V.
 Zapparov, Zachary Anker

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
```

```
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------------------------------

addressable
========================
Copyright © Bob Aman

                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
```

```
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.
```

```
   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
```

```
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------------------------

public_suffix
==========================
Copyright (c) 2009-2020 Simone Carletti

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
------------------------------------------------------------------------------------------

domain_name
================================
Copyright (c) 2011-2017 Akinori MUSHA

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
```

```
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

* lib/domain_name/punycode.rb

This file is derived from the implementation of punycode available at
here:

https://www.verisign.com/en_US/channel-resources/domain-registry-products/
idn-sdks/index.xhtml

Copyright (C) 2000-2002 Verisign Inc., All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

 1) Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

 2) Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

 3) Neither the name of the VeriSign Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

This software is licensed under the BSD open source license. For more
information visit www.opensource.org.

Authors:
 John Colosi (VeriSign)
 Srikanth Veeramachaneni (VeriSign)
 Nagesh Chigurupati (Verisign)
 Praveen Srinivasan(Verisign)

* lib/domain_name/etld_data.rb

This file is generated from the Public Suffix List
(https://publicsuffix.org/), which is licensed under MPL 2.0:

Mozilla Public License Version 2.0
==========================

 1. Definitions
```

```
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
notice in Exhibit A, the Executable Form of such Source Code Form, and
Modifications of such Source Code Form, in each case including portions
thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
to the Covered Software; or

that the Covered Software was made available under the terms of version
1.1 or earlier of the License, but not also under the terms of a Secondary
License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
the time of the initial grant or subsequently, any and all of the rights
conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
and apparatus claims, in any patent Licensable by such Contributor that
would be infringed, but for the grant of the License, by the making, using,
selling, offering for sale, having made, import, or transfer of either its
Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
General Public License, Version 2.1, the GNU Affero General Public License,
Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.
```

```
 1.14. “You” (or “Your”)
 means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

 2. License Grants and Conditions
 2.1. Grants
 Each Contributor hereby grants You a world-wide, royalty-free, non-
exclusive license:

 under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

 under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

 2.2. Effective Date
 The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

 2.3. Limitations on Grant Scope
 The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

 for any code that a Contributor has removed from Covered Software; or

 for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

 under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

 This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

 2.4. Subsequent Licenses
 No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

 2.5. Representation
 Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

 2.6. Fair Use
```

```
This License is not intended to limit any rights You have under applicable
copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source Code
Form of the Covered Software is governed by the terms of this License, and
how they can obtain a copy of this License. You may not attempt to alter or
restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
described in Section 3.1, and You must inform recipients of the Executable
Form how they can obtain a copy of such Source Code Form by reasonable
means in a timely manner, at a charge no more than the cost of distribution
to the recipient; and

You may distribute such Executable Form under the terms of this License,
or sublicense it under different terms, provided that the license for the
Executable Form does not attempt to limit or alter the recipients' rights
in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for the
Covered Software. If the Larger Work is a combination of Covered Software
with a work governed by one or more Secondary Licenses, and the Covered
Software is not Incompatible With Secondary Licenses, this License permits
You to additionally distribute such Covered Software under the terms of
such Secondary License(s), so that the recipient of the Larger Work may,
at their option, further distribute the Covered Software under the terms of
either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
copyright notices, patent notices, disclaimers of warranty, or limitations
of liability) contained within the Source Code Form of the Covered
Software, except that You may alter any license notices to the extent
required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered
by You alone, and You hereby agree to indemnify every Contributor for
any liability incurred by such Contributor as a result of warranty,
support, indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute,
judicial order, or regulation then You must: (a) comply with the terms
```

```
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

 5. Termination
 5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

 5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

 5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

 6. Disclaimer of Warranty
 Covered Software is provided under this License on an “as is” basis,
 without warranty of any kind, either expressed, implied, or statutory,
 including, without limitation, warranties that the Covered Software is free
 of defects, merchantable, fit for a particular purpose or non-infringing.
 The entire risk as to the quality and performance of the Covered Software
 is with You. Should any Covered Software prove defective in any respect,
 You (not any Contributor) assume the cost of any necessary servicing,
 repair, or correction. This disclaimer of warranty constitutes an essential
 part of this License. No use of any Covered Software is authorized under
 this License except under this disclaimer.

 7. Limitation of Liability
 Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting
 from such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

 8. Litigation
 Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
```

```
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party's ability to bring cross-claims or
 counter-claims.

 9. Miscellaneous
 This License represents the complete agreement concerning the
 subject matter hereof. If any provision of this License is held to
 be unenforceable, such provision shall be reformed only to the extent
 necessary to make it enforceable. Any law or regulation which provides that
 the language of a contract shall be construed against the drafter shall not
 be used to construe this License against a Contributor.

 10. Versions of the License
 10.1. New Versions
 Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

 10.2. Effect of New Versions
 You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

 10.3. Modified Versions
 If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

 10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
 If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

 Exhibit A - Source Code Form License Notice
 This Source Code Form is subject to the terms of the Mozilla Public
 License, v. 2.0. If a copy of the MPL was not distributed with this file,
 You can obtain one at https://mozilla.org/MPL/2.0/.

 If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

 You may add additional accurate notices of copyright ownership.

 Exhibit B - "Incompatible With Secondary Licenses" Notice
 This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by the Mozilla Public License, v. 2.0.

---------------------------------------------------------------------------------------------------

unf
===============
BSD-2-CLAUSE

Copyright (c) 2011, 2012 Akinori MUSHA

All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
-------------------------------------------------------------------------------------------

unf_ext
==============
The MIT License

Copyright (c) 2010 Takeru Ohta
Copyright (c) 2011-2018 Akinori MUSHA  (extended Ruby support)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
-------------------------------------------------------------------------------------------

http-form_data
=========================
Copyright (c) 2015-2021 Alexey V Zapparov

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
```

```
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

http-parser
==========
The MIT License (MIT)

Copyright (c) 2013 CoTag Media

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

ffi-compiler
===============
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
```

```
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2020 FFI

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------------------------------------------------------------------

ffi
=============
BSD-3-CLAUSE

Copyright (c) 2008-2016, Ruby FFI project contributors
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the Ruby FFI project nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL  BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------

rake
========

Copyright (c) Jim Weirich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

jsonpath
==================

The MIT License (MIT)

Copyright (c) 2017 Joshua Lin & Gergely Brautigam

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-------------------------------------------------------------------------------------------

multi_json
=============
MIT License

Copyright (c) 2010-2013 Michael Bleigh, Josh Kalderimis, Erik Michaels-Ober,
 Pavel Pravosud

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

recursive-open-struct
=================
MIT License

Copyright (c) 2009-2018, The Recursive-open-struct developers (given in the
file AUTHORS.txt).

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
```

```
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

rest-client
===========

The MIT License (MIT)

Copyright (c) 2008-2014 Rest Client Authors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-------------------------------------------------------------------------------------------

http-accept
=============

Released under the MIT license.

Copyright, 2016, by Samuel G. D. Williams.
Copyright, 2016, by Matthew Kerwin.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------
```

```
http-cookie
============

Copyright (c) 2013 Akinori MUSHA
Copyright (c) 2011-2012 Akinori MUSHA, Eric Hodel
Copyright (c) 2006-2011 Aaron Patterson, Mike Dalessio

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

mime-types
=====================
# Licence

- Copyright 2003-2019 Austin Ziegler and contributors.

The software in this repository is made available under the MIT license.

## MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CON
--------------------------------------------------------------------------------
```

```
mime-types-data
=========================

## Licence

- Copyright 2003-2021 Austin Ziegler and other contributors.

The software in this repository is made available under the MIT license.

### MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

netrc
==========
The MIT License (MIT)

Copyright (c) 2011-2014 Alexey Fedorov alexey.fedorov@wimdu.com
Andrew Davey as.davey@gmail.com
Avdi Grimm avdi@avdi.org
Barry Allard barry@barryallard.name
Dan Peterson dpiddy@gmail.com
Elan Ruusamäe glen@delfi.ee
Keith Rarick kr@xph.us
Nicholas E. Rabenau nerab@gmx.at
Phil Hagelberg technomancy@gmail.com
Wesley Beary geemus+github@gmail.com
Wesley Beary geemus@gmail.com
Wesley Beary wesley@heroku.com
geemus geemus@gmail.com
tiroc chaoyang.che@gmail.com

(https://github.com/geemus/netrc/blob/master/CONTRIBUTORS.md)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
```

```
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------
```

Provider: Almende B.V. and Contributors / Component(s): vis-network 9.1.7

```
vis-network is dually-licensed under MIT and Apache License 2.0 terms.
 Oracle elects MIT license terms for OCI Data Science.

------------------------------- Top-level license --------------------------
License Type: MIT, Apache License 2.0
=== ========================================================================
.
.
.
------------------------------- Copyright notices --------------------------
License Type: MIT
License Text
The MIT License (MIT)

Copyright (c) 2014-2017 Almende B.V.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-------------------------------------------------------------------------------------------
```

```
--------------------------------------------------------------------------------

License Type: Apache License 2.0
License Text
                            Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

-----------------------------------------------------------------------------------------
```

Provider: Almende B.V. and Contributors / Component(s): vis-network 9.1.8

```
Copyright (C) 2010-2018 Almende B.V. and Contributors Copyright (c)
 2018-2021 Vis.js contributors
```

```
Vis.js is dual licensed under both

The Apache 2.0 License http://www.apache.org/licenses/LICENSE-2.0
and

The MIT License http://opensource.org/licenses/MIT
Vis.js may be distributed under either license.

--------------------------------------------------------------------------------
Oracle elects the MIT license for OCI Data Science
--------------------------------------------------------------------------------
------------------------------- Top-level license --------------------------
License Type: MIT, Apache License 2.0
.
.
.
------------------------------- Copyright notices --------------------------
License Type: MIT
License Text
The MIT License (MIT)

Copyright (c) 2014-2017 Almende B.V.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------

License Type: Apache License 2.0
License Text
                            Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

-------------------------------------------------------------------------------------
```

Provider: Amazon / Component(s): AWS SDK for Java 1.11.147

```
AWS SDK for Java
Copyright 2010-2014 Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

**********************
THIRD PARTY COMPONENTS
**********************
This software includes third party software subject to the following
 copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James
 Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from
 oauth.googlecode.com - Copyright 1998-2010 AOL Inc.

The licenses for these third party components are included in LICENSE.txt

Apache License
Version 2.0, January 2004

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
```

```
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

   1.   You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
   2.   You must cause any modified files to carry prominent notices stating
 that You changed the files; and
   3.   You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
   4.   If the Work includes a "NOTICE" text file as part of its
 distribution, then any Derivative Works that You distribute must include a
 readable copy of the attribution notices contained within such NOTICE file,
 excluding those notices that do not pertain to any part of the Derivative
 Works, in at least one of the following places: within a NOTICE text file
 distributed as part of the Derivative Works; within the Source form or
 documentation, if provided along with the Derivative Works; or, within
 a display generated by the Derivative Works, if and wherever such third-
party notices normally appear. The contents of the NOTICE file are for
 informational purposes only and do not modify the License. You may add
 Your own attribution notices within Derivative Works that You distribute,
 alongside or as an addendum to the NOTICE text from the Work, provided that
 such additional attribution notices cannot be construed as modifying the
 License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
```

```
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Amazon / Component(s): AWS SDK for Java 1.11.490

```
AWS SDK for Java
Copyright 2010-2014 Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

**********************
THIRD PARTY COMPONENTS
**********************
This software includes third party software subject to the following
 copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James
 Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from
 oauth.googlecode.com - Copyright 1998-2010 AOL Inc.

The licenses for these third party components are included in LICENSE.txt

Apache License
Version 2.0, January 2004

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
```

```
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
```

```
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

   1.   You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
   2.   You must cause any modified files to carry prominent notices stating
 that You changed the files; and
   3.   You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
   4.   If the Work includes a "NOTICE" text file as part of its
 distribution, then any Derivative Works that You distribute must include a
 readable copy of the attribution notices contained within such NOTICE file,
 excluding those notices that do not pertain to any part of the Derivative
 Works, in at least one of the following places: within a NOTICE text file
 distributed as part of the Derivative Works; within the Source form or
 documentation, if provided along with the Derivative Works; or, within
 a display generated by the Derivative Works, if and wherever such third-
party notices normally appear. The contents of the NOTICE file are for
 informational purposes only and do not modify the License. You may add
 Your own attribution notices within Derivative Works that You distribute,
 alongside or as an addendum to the NOTICE text from the Work, provided that
 such additional attribution notices cannot be construed as modifying the
 License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
```

```
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Amazon / Component(s): AWS SDK for Java 2.19.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.
   This product includes software developed by
   Amazon Technologies, Inc (http://www.amazon.com/).

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   Note: Other license terms may apply to certain, identified software files
 contained within or distributed
   with the accompanying software if such terms are included in the
 directory containing the accompanying software.
   Such other license terms will then apply in lieu of the terms of the
 software license above.

==============================================================================

LICENSE FOR:
Netty (io.netty:netty-*)
  Copyright 2012,2021 The Netty Project
  Copyright 2014 Twitter, Inc.
  Copyright (c) 2011, Joe Walnes and contributors
  Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>
  Copyright (c) 2004-2011 QOS.ch


                                 Apache License
                           Version 2.0, January 2004
```

```
                         https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."


      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.


   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.


   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.


   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:


      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and


      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and


      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and


      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.


    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.


  5. Submission of Contributions. Unless You explicitly state otherwise,
     any Contribution intentionally submitted for inclusion in the Work
     by You to the Licensor shall be under the terms and conditions of
     this License, without any additional terms or conditions.
     Notwithstanding the above, nothing herein shall supersede or modify
     the terms of any separate license agreement you may have executed
     with Licensor regarding such Contributions.


  6. Trademarks. This License does not grant permission to use the trade
     names, trademarks, service marks, or product names of the Licensor,
     except as required for reasonable and customary use in describing the
     origin of the Work and reproducing the content of the NOTICE file.


  7. Disclaimer of Warranty. Unless required by applicable law or
     agreed to in writing, Licensor provides the Work (and each
     Contributor provides its Contributions) on an "AS IS" BASIS,
     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
     implied, including, without limitation, any warranties or conditions
     of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
     PARTICULAR PURPOSE. You are solely responsible for determining the
     appropriateness of using or redistributing the Work and assume any
     risks associated with Your exercise of permissions under this License.


  8. Limitation of Liability. In no event and under no legal theory,
     whether in tort (including negligence), contract, or otherwise,
     unless required by applicable law (such as deliberate and grossly
     negligent acts) or agreed to in writing, shall any Contributor be
     liable to You for damages, including any direct, indirect, special,
     incidental, or consequential damages of any character arising as a
     result of this License or out of the use or inability to use the
     Work (including but not limited to damages for loss of goodwill,
     work stoppage, computer failure or malfunction, or any and all
     other commercial damages or losses), even if such Contributor
     has been advised of the possibility of such damages.


  9. Accepting Warranty or Additional Liability. While redistributing
     the Work or Derivative Works thereof, You may choose to offer,
     and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.


   END OF TERMS AND CONDITIONS


   APPENDIX: How to apply the Apache License to your work.


      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.


   Copyright [yyyy] [name of copyright owner]


   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at


       https://www.apache.org/licenses/LICENSE-2.0


   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

====NOTICES====

                            The Netty Project
                            =================

Please visit the Netty web site for more information:

  * https://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.
```

```
Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.
```

```
A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
(BSD License: https://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.

* Neither the name of the Webbit nor the names of
  its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
/*
 * Copyright (c) 2004-2007 QOS.ch
 * All rights reserved.
 *
 * Permission is hereby granted, free  of charge, to any person obtaining
 * a  copy  of this  software  and  associated  documentation files  (the
 * "Software"), to  deal in  the Software without  restriction, including
 * without limitation  the rights to  use, copy, modify,  merge, publish,
 * distribute,  sublicense, and/or sell  copies of  the Software,  and to
 * permit persons to whom the Software  is furnished to do so, subject to
 * the following conditions:
 *
 * The  above  copyright  notice  and  this permission  notice  shall  be
 * included in all copies or substantial portions of the Software.
 *
 * THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 * EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 * MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 * LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 * OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 * WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */
  * HOMEPAGE:
    * https://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2
 Project

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
Apache License

Version 2.0, January 2004
```

```
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
```

```
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and
```

```
(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
```

```
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
http://www.apache.org/licenses/LICENSE-2.0



Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights
 reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
 distribution.

  3. The names of the authors may not be used to endorse or promote products
     derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
```

```
the License at https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
 under
the License.
  * HOMEPAGE:
    * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/



TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION



1. Definitions.



"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.


"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.


"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.


"You" (or "Your") shall mean an individual or Legal Entity
```

```
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
```

```
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
```

```
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.
```

```
8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
```

```
comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier

identification within third-party archives.


Copyright [yyyy] [name of copyright owner]


Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at


http://www.apache.org/licenses/LICENSE-2.0


Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
  * HOMEPAGE:
    * https://github.com/jponge/lzma-java

This product optionally depends on 'zstd-jni', a zstd-jni Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.zstd-jni.txt (Apache License 2.0)
Zstd-jni: JNI bindings to Zstd Library
```

```
Copyright (c) 2015-present, Luben Karavelov/ All rights reserved.

BSD License

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/luben/zstd-jni

This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
```

```
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc.  All rights reserved.
https://developers.google.com/protocol-buffers/

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
  * HOMEPAGE:
    * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
                          (https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/
```

```
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling

This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
  * HOMEPAGE:
    * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
  * HOMEPAGE:
    * https://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
```

```
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
  * HOMEPAGE:
    * https://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
  * HOMEPAGE:
    * https://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
```

```
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
```

```
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
  * HOMEPAGE:
    * https://github.com/twitter/hpack

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:

  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/

This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)

                              Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
```

```
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/


This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)

                                Apache License
                           Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
```

```
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
```

```
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper

This product contains the dnsinfo.h header file, that provides a way to
 retrieve the system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
/*
 * Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.
 *
 * @APPLE_LICENSE_HEADER_START@
 *
 * This file contains Original Code and/or Modifications of Original Code
 * as defined in and that are subject to the Apple Public Source License
 * Version 2.0 (the 'License'). You may not use this file except in
 * compliance with the License. Please obtain a copy of the License at
 * https://www.opensource.apple.com/apsl/ and read it before using this
 * file.
 *
 * The Original Code and all software distributed under the License are
 * distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
 * EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
 * INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
 * Please see the License for the specific language governing rights and
 * limitations under the License.
 *
 * @APPLE_LICENSE_HEADER_END@
 */
  * HOMEPAGE:
    * https://www.opensource.apple.com/source/configd/configd-453.19/
dnsinfo/dnsinfo.h

This product optionally depends on 'Brotli4j', Brotli compression and
decompression for Java., which can be obtained at:
```

```
 * LICENSE:
   * license/LICENSE.brotli4j.txt (Apache License 2.0)

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
  * HOMEPAGE:
    * https://github.com/hyperxpro/Brotli4j


==================================================================================


LICENSE FOR:
org.reactivestreams:reactive-streams


MIT No Attribution



Copyright 2014 Reactive Streams



Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so.



THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE

==================================================================================

LICENSE FOR:
org.slf4j:slf4j-api

Copyright (c) 2004-2017 QOS.ch
All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE

==========================================================================================


LICENSE FOR:
commons-codec:commons-codec

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/


TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION


1. Definitions.


"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.


"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.


"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.


"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.
```

```
"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
```

```
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
```

```
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.
```

```
8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
```

```
file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier

identification within third-party archives.


Copyright [yyyy] [name of copyright owner]


Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at


http://www.apache.org/licenses/LICENSE-2.0


Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

====NOTICES====

Apache Commons Codec
Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)


The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

=================================================================================


LICENSE FOR:
commons-logging:commons-logging

                                Apache License
                           Version 2.0, January 2004
```

```
                         http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
```

```
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

====NOTICES====
Apache Commons Logging

Copyright 2003-2023 The Apache Software Foundation



This product includes software developed at

The Apache Software Foundation (http://www.apache.org/).

==========================================================================================


LICENSE FOR:
org.apache.httpcomponents:httpcore

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/



TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION



1. Definitions.



"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.



"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.



"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or
```

```
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
```

```
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
```

```
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
```

```
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

====NOTICES====
Apache HttpComponents Core
Copyright 2005-2022 The Apache Software Foundation

This product includes software developed at
```

```
The Apache Software Foundation (http://www.apache.org/).
```

Provider: Amazon / Component(s): AWS SDK for Java 2.27.0

```
TOP-LEVEL LICENSE AWS-SDK


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

     Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.
     This product includes software developed by
     Amazon Technologies, Inc (http://www.amazon.com/).

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   Note: Other license terms may apply to certain, identified software files
 contained within or distributed
   with the accompanying software if such terms are included in the
 directory containing the accompanying software.
   Such other license terms will then apply in lieu of the terms of the
 software license above.

==============================================================================

LICENSE FOR slf4j-api

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==============================================================================

LICENSE FOR:
```

```
org.reactivestreams:reactive-streams


MIT No Attribution



Copyright 2014 Reactive Streams



Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so.



THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE

==========================================================================================

LICENSE FOR:
org.apache.httpcomponents:httpclient

Apache Version 2.0

Apache HttpComponents Client
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

==========================================================================================

LICENSE FOR:
commons-logging:commons-logging

Apache Version 2.0

Apache Commons Logging
Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

==========================================================================================

LICENSE FOR:
org.apache.httpcomponents:httpcore

Apache Version 2.0

Apache HttpComponents Core
Copyright 2005-2021 The Apache Software Foundation
```

```
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

==========================================================================================

LICENSE FOR:
commons-codec:commons-codec

Apache Version 2.0

Apache Commons Codec
Copyright 2002-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

==========================================================================================

LICENSE FOR:
Netty (io.netty:netty-*)

Apache Version 2.0


                            The Netty Project
                            =================

Please visit the Netty web site for more information:

  * https://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:
```

```
  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
  * HOMEPAGE:
    * https://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:
```

```
  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jponge/lzma-java

This product optionally depends on 'zstd-jni', a zstd-jni Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.zstd-jni.txt (BSD)
  * HOMEPAGE:
    * https://github.com/luben/zstd-jni

This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
  * HOMEPAGE:
    * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
  * HOMEPAGE:
```

```
    * https://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
  * HOMEPAGE:
    * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling

This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/twitter/hpack

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:
```

```
  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:

  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/

This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/


This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper

This product contains the dnsinfo.h header file, that provides a way to
 retrieve the system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
  * HOMEPAGE:
    * https://www.opensource.apple.com/source/configd/configd-453.19/
dnsinfo/dnsinfo.h

This product optionally depends on 'Brotli4j', Brotli compression and
decompression for Java., which can be obtained at:

  * LICENSE:
    * license/LICENSE.brotli4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/hyperxpro/Brotli4j
```

Provider: Amazon / Component(s): JMESPath 0.9.3

```
Copyright (c) 2013 Amazon.com, Inc. or its affiliates.  All Rights Reserved

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish, dis-
tribute, sublicense, and/or sell copies of the Software, and to permit
```

```
persons to whom the Software is furnished to do so, subject to the fol-
lowing conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABIL-
ITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
```

Provider: Amplitude / Component(s): redux-query 2.3.0

```
Amplitude

The MIT License (MIT)

Copyright (c) 2017 Amplitude

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

=====================

superagent 3.8.3 https://github.com/visionmedia/superagent/blob/master/
LICENSE (MIT)

(The MIT License)

Copyright (c) 2014-2016 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------
json-stable-stringify 1.0.1 https://github.com/substack/json-stable-
stringify/blob/master/LICENSE (MIT)

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------------------
invariant 2.2.4 https://github.com/zertosh/invariant/blob/master/LICENSE
 (MIT)

MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-------------------
backo 1.1.0 https://github.com/segmentio/backo (MIT)

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-------------------
```

Provider: Anaconda Inc / Component(s): dask 2022.12.1

```
==========================================================================

------------------------------- Top-level license --------------------------
BSD 3-Clause License

Copyright (c) 2014, Anaconda, Inc. and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
```

```
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
==========================================================================
.

---------------------------- Fourth-party information ----------------------

Markupsafe

Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------

bokeh

Copyright (c) 2012 - 2022, Anaconda, Inc., and Bokeh Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of Anaconda nor the names of any contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

click

Copyright 2014 Pallets

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

cloudpickle

This module was extracted from the `cloud` package, developed by
PiCloud, Inc.

Copyright (c) 2015, Cloudpickle contributors.
Copyright (c) 2012, Regents of the University of California.
Copyright (c) 2009 PiCloud, Inc. http://www.picloud.com.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the University of California, Berkeley nor the
```

```
      names of its contributors may be used to endorse or promote
      products derived from this software without specific prior written
      permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

fsspec

BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

packaging

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

 Apache License
```

```
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

pyparsing

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------

partd

Copyright (c) 2015, Continuum Analytics, Inc. and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of Continuum Analytics nor the names of any contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
```

```
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

locket

Copyright (c) 2012, Michael Williamson
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

toolz

Copyright (c) 2013 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of toolz nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-----------------------------------------------------------------

pyyaml

Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------------------------------------


heapdict

Copyright 2009 Stutzbach Enterprises, LLC (daniel@stutzbachenterprises.com)

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   1. Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
   2. Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
   3. The name of the author may not be used to endorse or promote
      products derived from this software without specific prior written
      permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
```

```
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

jinja2

Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

msgpack

Copyright (C) 2008-2011 INADA Naoki <songofacandy@gmail.com>

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------------------------------------

psutil

BSD 3-Clause License
```

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola'
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

sortedcontainers

Copyright 2014-2019 Grant Jenks

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---

tblib

BSD 2-Clause License

Copyright (c) 2013-2022, Ionel Cristian Mărieș. All rights reserved.

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the
following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following
disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following
disclaimer in the documentation and/or other materials provided with the
 distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------

tornado

Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
```

```
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------------------------------------------

typing-extensions

PSF License Version 2 and Zero-Clause BSD license

A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
```

```
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.
```

```
2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
```

```
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
```

```
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```

```
ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
----------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

-------------------------------------------------------------------

urllib3

MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------------------------------------------------------------

zict

Copyright (c) 2016 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
```

```
  c. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-----------------------------------------------------------------

pandas

BSD 3-Clause License

Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2022, Open source contributors.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

Pillow

The Python Imaging Library (PIL) is
```

```
    Copyright © 1997-2011 by Secret Labs AB
    Copyright © 1995-2011 by Fredrik Lundh

Pillow is the friendly PIL fork. It is

    Copyright © 2010-2023 by Jeffrey A. Clark (Alex) and contributors.

Like PIL, Pillow is licensed under the open source HPND License:

By obtaining, using, and/or copying this software and/or its associated
documentation, you agree that you have read, understood, and will comply
with the following terms and conditions:

Permission to use, copy, modify and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appears in all copies, and that
both that copyright notice and this permission notice appear in supporting
documentation, and that the name of Secret Labs AB or the author not be
used in advertising or publicity pertaining to distribution of the software
without specific, written prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.
IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

-----------------------------------------------------------------

python-dateutil

Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.

---------------------------------------------------------------------

pytz

Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

---------------------------------------------------------------------

six

Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
```

```
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------

numpy

 BSD License

 Copyright (c) 2005-2022, NumPy Developers.

 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are
 met:

     * Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the following
        disclaimer in the documentation and/or other materials provided
        with the distribution.

     * Neither the name of the NumPy Developers nor the names of any
        contributors may be used to endorse or promote products derived
        from this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
 A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 ----

 This binary distribution of NumPy also bundles the following software:
```

```
Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: extra-dll\libopenb*.dll
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
```

```
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
--------------------
--------------------------------------------------------------------------------
```

```
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
tempita

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
```

```
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------
dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation
the
  rights to use, copy, modify, merge, publish, distribute, sublicense,
andor
  sell copies of the Software, and to permit persons to whom the Software
is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included
in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS
  IN THE SOFTWARE.

--------------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not
be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
distribution.

--------------------------------------------------------------------------------
LICENSES_bundled in different directories:
--------------------------------------------------------------------------------
```

```
The NumPy repository and source distributions bundle several libraries that
are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the
3-clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open
Source License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
and related and neighboring rights to this software to the public domain
worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------
```

```
Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
notice, this list of conditions, and the following disclaimer in the
documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64
```

```
The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

```
Original algorithm for the implementation of rk_interval function from
Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah,
and other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com
```

```
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal with the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimers in the documentation
and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
be used to endorse or promote products derived from this Software without
specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often
the algorithm's designer. Component licenses are located with the component
code.

-----------------------------------------------------------------------------------------------
```

```
 Name: nympy.core.ma

 Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
 All rights reserved.
 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

      * Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.
      * Neither the name of the University of Georgia nor the
         names of its contributors may be used to endorse or promote
 products
         derived from this software without specific prior written
 permission.

  THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 ANY
  EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
  WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
  DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
 ANY
  DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
   (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
  LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
  ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
  SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 ------------------------------------------------------------------------------------------
```

Provider: Anaconda, Inc. / Component(s): distributed 2022.11.1

```
==========================================================================

------------------------------- Top-level license --------------------------
Copyright (c) 2015-2017, Anaconda, Inc. and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of Anaconda nor the names of any contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

========================================================================
.

---------------------------- Fourth-party information ----------------------

click

Copyright 2014 Pallets

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------

cloudpickle

This module was extracted from the `cloud` package, developed by
PiCloud, Inc.

Copyright (c) 2015, Cloudpickle contributors.
Copyright (c) 2012, Regents of the University of California.
Copyright (c) 2009 PiCloud, Inc. http://www.picloud.com.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the University of California, Berkeley nor the
      names of its contributors may be used to endorse or promote
      products derived from this software without specific prior written
```

```
      permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

dask

BSD 3-Clause License

Copyright (c) 2014, Anaconda, Inc. and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

fsspec

BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------

packaging

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
```

```
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
```

```
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------

pyparsing

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
```

```
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------------------------

partd

Copyright (c) 2015, Continuum Analytics, Inc. and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of Continuum Analytics nor the names of any contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------

locket

Copyright (c) 2012, Michael Williamson
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

toolz

Copyright (c) 2013 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of toolz nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-----------------------------------------------------------------

pyyaml

Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------------------------------------

jinja2

Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

MarkupSafe

Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

msgpack

Copyright (C) 2008-2011 INADA Naoki <songofacandy@gmail.com>

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------------------------------------

psutil

BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola'
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
```

```
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------

sortedcontainers

Copyright 2014-2019 Grant Jenks

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------------------------------------------------------------

tblib

BSD 2-Clause License

Copyright (c) 2013-2022, Ionel Cristian Mărieș. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the
following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following
disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following
disclaimer in the documentation and/or other materials provided with the
 distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------

tornado
```

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------------------------------------

urllib3

MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------------------------------------

zict

Copyright (c) 2016 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
```

Provider: Anaconda, Inc. / Component(s): numba 0.59.0

```
package_name: numba
license_type: BSD License
license_text:
Copyright (c) 2012, Anaconda, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
 numba 0.57.1 has dependencies on following libraries:

 numba needs "importlib-metadata"
  "importlib-metadata" needs "zipp"
   "zipp" doesn't have any dependencies
 numba needs "llvmlite"
  "llvmlite" doesn't have any dependencies
 numba needs "numpy"
  "numpy" has certain dependencies bundled whose licenses are below
--------------------------------------------------------------------------------
package_name: importlib-metadata
license_type: Apache Software License
license_text:

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
```

```
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
package_name: zipp
license_type: MIT License
license_text:
Copyright Jason R. Coombs

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
```

```
package_name: llvmlite
license_type: BSD
license_text:
Copyright (c) 2014-, Continuum Analytics, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
package_name: numpy
license_type: BSD License
license_text:
```

```
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

The following software is bundled/embedded with numpy - their licenses
 follow in order:
OpenBLAS
lapack-lite
tempita
dragon4
libdivide
SPLITMIX64
SFC64
PHILOX
PCG64
MT19937
Julia
Random
nympy.core.ma


Name: OpenBLAS
Files: .libs/libopenb*.so
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
```

```
     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-----------------------------------------------------------------------------------------------

Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
License: 3-clause BSD
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
```

```
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------
Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------------------------------------------------

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

-----------------------------------------------------------------------------
Name: libdivide
```

```
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt
zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.


--------------------------------------------------------------------------------
Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md
Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------
Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md
© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------------------

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------
Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------------------

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:
```

```
Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

-------------------------------------------------------------------------------------------------------

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
```

```
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------------------------
```

Provider: Andre Arko, Engine Yard / Component(s): Bundler 2.3.5

```
https://github.com/rubygems/bundler/blob/master/LICENSE.md

The MIT License

Portions copyright (c) 2010-2019 André Arko Portions copyright (c) 2009
 Engine Yard

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------
```

Provider: André Cruz / Component(s): SparkMD5 3.0.2

```
------------------------------- Top-level license --------------------------
```

```
Copyright (c) 2015 André Cruz <amdfcruz@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the 'Software'), to deal
 in the
Software without restriction, including without limitation the rights to
 use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies of the
 Software,
and to permit persons to whom the Software is furnished to do so, subject to
 the
following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----
            DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE
                    Version 2, December 2004

 Copyright (C) 2015 André Cruz <amdfcruz@gmail.com>

 Everyone is permitted to copy and distribute verbatim or modified
 copies of this license document, and changing it is allowed as long
 as the name is changed.

            DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. You just DO WHAT THE FUCK YOU WANT TO.

------------------------------- Copyright notices --------------------------
Copyright (C) 2015 André Cruz <amdfcruz@gmail.com>
----------------------------- Fourth-party information ----------------------
No fourth-party dependencies.

== NAME OF DEPENDENCY 1
.
== License Type
.
== Copyright Notices
.
.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
.
== License Type
.
== Copyright Notices
.
.
--------------------------------(separator)---------------------------------
== LICENSES
.
```

```
== Text of license (license name)
.
.
== Text of license (license name)
.
.
```

Provider: Andrea Giammarchi / Component(s): url-search-params 0.7.1

```
Copyright (C) 2015-2017 Andrea Giammarchi - @WebReflection

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Ansible, Inc. / Component(s): Ansible 2.4.3.0

```
ansible/lib/ansible/module_utils/basic.py

# This code is part of Ansible, but is an independent component.
# This particular file snippet, and this file snippet only, is BSD licensed.
# Modules you write using this snippet, which is embedded dynamically by
 Ansible
# still belong to the author of the module, and may assign their own license
# to the complete work.
#
# Copyright (c), Michael DeHaan <michael.dehaan@gmail.com>, 2012-2013
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
 modification,
# are permitted provided that the following conditions are met:
#
#    * Redistributions of source code must retain the above copyright
#      notice, this list of conditions and the following disclaimer.
#    * Redistributions in binary form must reproduce the above copyright
 notice,
#      this list of conditions and the following disclaimer in the
 documentation
#      and/or other materials provided with the distribution.
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
# ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
```

```
# WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED.
# IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT,
# INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED TO,
# PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS
# INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT
# LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE
# USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Ansible, Inc. / Component(s): Ansible 2.6

```
ansible/lib/ansible/module_utils/basic.py

# This code is part of Ansible, but is an independent component.
# This particular file snippet, and this file snippet only, is BSD licensed.
# Modules you write using this snippet, which is embedded dynamically by
 Ansible
# still belong to the author of the module, and may assign their own license
# to the complete work.
#
# Copyright (c), Michael DeHaan <michael.dehaan@gmail.com>, 2012-2013
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
 modification,
# are permitted provided that the following conditions are met:
#
#    * Redistributions of source code must retain the above copyright
#      notice, this list of conditions and the following disclaimer.
#    * Redistributions in binary form must reproduce the above copyright
 notice,
#      this list of conditions and the following disclaimer in the
 documentation
#      and/or other materials provided with the distribution.
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
# ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
# WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED.
# IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT,
# INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED TO,
# PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS
# INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT
# LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE
# USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Anthony Green, Red Hat, Inc and others / Component(s): LibFFI Library 3.3

```
libffi - Copyright (c) 1996-2019  Anthony Green, Red Hat, Inc and others.
```

```
See source files for details.
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Anthony Tuininga / Component(s): cx_Oracle 8.2.0

```
LICENSE AGREEMENT FOR CX_ORACLE

Copyright 2016, 2018, Oracle and/or its affiliates. All rights reserved.

Portions Copyright 2007-2015, Anthony Tuininga. All rights reserved.

Portions Copyright 2001-2007, Computronix (Canada) Ltd., Edmonton, Alberta,
Canada. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions, and the disclaimer that follows.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions, and the following disclaimer in the
 documentation
   and/or other materials provided with the distribution.

3. Neither the names of the copyright holders nor the names of any
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

DISCLAIMER: THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
*AS IS* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
 ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
Computronix is a registered trademark of Computronix (Canada) Ltd.
```

Provider: ANTLR / Component(s): ANTLR 4.7.1

```
ANTLR 4 License
[The BSD License]
Copyright (c) 2012 Terence Parr and Sam Harwell
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the author nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

Provider: Apache / Component(s): Apache Derby 10.11

```
1. Include the following verbatim in the documentation:  {Put in the text of
 all notices listed in development restrictions}

2. Include the following License ONLY ONCE in the documentation even if
 there are multiple products licensed under the license.

The following applies to all products licensed under the Apache 2.0 License:

You may not use the identified files except in compliance with the Apache
 License, Version 2.0 (the "License.")

You may obtain a copy of the License at http://www.apache.org/licenses/
LICENSE-2.0.  A copy of the license is also reproduced below.

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and
 limitations under the License.

                    Apache License
                            Version 2.0, January 2004
                         http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Apache / Component(s): arrow 0.10.0

```
/*
 * Copyright (C) 2002-2017 Igor Sysoev
 * Copyright (C) 2011-2017 Nginx, Inc.
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */
```

Provider: Apache / Component(s): Avro 1.9.2

```
Top Level Component : Avro
Top Level Component License : Apache 2.0

                             Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Top Level Component copyright:

Apache Avro
Copyright 2010-2019 The Apache Software Foundation
```

```
This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

NUnit license acknowledgement:

| Portions Copyright © 2002-2012 Charlie Poole or Copyright © 2002-2004 James
| W. Newkirk, Michael C. Two, Alexei A. Vorontsov or Copyright © 2000-2002
| Philip A. Craig

Based upon the representations of upstream licensors, it is understood that
portions of the mapreduce API included in the Java implementation are
 licensed
from various contributors under one or more contributor license agreements
 to
Odiago, Inc. and were then contributed by Odiago to Apache Avro, which has
 now
made them available under the Apache 2.0 license. The original file header
 text
is:

| Licensed to Odiago, Inc. under one or more contributor license
| agreements.  See the NOTICE file distributed with this work for
| additional information regarding copyright ownership.  Odiago, Inc.
| licenses this file to you under the Apache License, Version 2.0
| (the "License"); you may not use this file except in compliance
| with the License.  You may obtain a copy of the License at
|
|     https://www.apache.org/licenses/LICENSE-2.0
|
| Unless required by applicable law or agreed to in writing, software
| distributed under the License is distributed on an "AS IS" BASIS,
| WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
| implied.  See the License for the specific language governing
| permissions and limitations under the License.

The Odiago NOTICE at the time of the contribution:

| This product includes software developed by Odiago, Inc.
| (https://www.wibidata.com).

Apache Ivy includes the following in its NOTICE file:

| Apache Ivy
| Copyright 2007-2010 The Apache Software Foundation
|
| This product includes software developed by
| The Apache Software Foundation (https://www.apache.org/).
|
| Portions of Ivy were originally developed by
| Jayasoft SARL (http://www.jayasoft.fr/)
| and are licensed to the Apache Software Foundation under the
| "Software Grant License Agreement"
|
| SSH and SFTP support is provided by the JCraft JSch package,
| which is open source software, available under
| the terms of a BSD style license.
| The original software and related information is available
| at http://www.jcraft.com/jsch/.

Apache Log4Net includes the following in its NOTICE file:

| Apache log4net
| Copyright 2004-2015 The Apache Software Foundation
```

```
|
| This product includes software developed at
| The Apache Software Foundation (https://www.apache.org/).

csharp reflect serializers were contributed by Pitney Bowes Inc.

| Copyright 2019 Pitney Bowes Inc.
| Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except in compliance with the License.
| You may obtain a copy of the License at https://www.apache.org/licenses/
LICENSE-2.0.
| Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
| WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
| See the License for the specific language governing permissions and
 limitations under the License.

--------------------------------------------------------------------------------

The following fourth-party dependencies also use the Apache 2.0 license

Fourth Party Dependency # 1:  jackson-core
Fourth Party Dependency  #1 License : Apache 2.0
Fourth Party Dependency  #1  Copyright :

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.
## Licensing
Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).
## Credits
A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses."
--------------------------------------------------------------------------------
Fourth Party Dependency # 2: jackson-databind
Fourth Party Dependency  #2 License : Apache 2.0
Fourth Party Dependency  #2  Copyright :

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.
## Licensing
Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).
## Credits
A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses."
--------------------------------------------------------------------------------
Fourth Party Dependency # 3: joda-time 2.10.5
```

```
Fourth Party Dependency  #3 License : Apache 2.0
Fourth Party Dependency  #3  Copyright :
" Copyright 2001-2009 Stephen Colebourne
 *
 *  Licensed under the Apache License, Version 2.0 (the ""License"");
 *  you may not use this file except in compliance with the License.
 *  You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 *  Unless required by applicable law or agreed to in writing, software
 *  distributed under the License is distributed on an ""AS IS"" BASIS,
 *  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 *  See the License for the specific language governing permissions and
 *  limitations under the License."
-------------------------------------------------------------------------------------------
Fourth Party Dependency # 4: commons-compress
Fourth Party Dependency  #4 License : Apache 2.0
Fourth Party Dependency  #4  Copyright :

Apache Commons Compress
Copyright 2002-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

The files in the package org.apache.commons.compress.archivers.sevenz
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (http://www.7-zip.org/sdk.html)
-------------------------------------------------------------------------------------------
```

Provider: Apache / Component(s): Commons CLI 1.4

```
Apache Commons CLI
Copyright 2001-2009 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
```

```
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

   1. You must give any other recipients of the Work or Derivative Works a
 copy of this License; and

   2. You must cause any modified files to carry prominent notices stating
 that You changed the files; and

   3. You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and

   4. If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
```

```
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except in compliance with the License. You may obtain a copy
 of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.
```

Provider: Apache / Component(s): Commons Codec 1.13

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


LIST OF FOURTH PARTY DEPENDENCIES
=================================================================================
     (Common Public Attribution License Version 1.0) JUnit (junit:junit:4.11
 - http://junit.org)

-----------------------  CPAL V1.0 FULL TEXT ----------------------------
Common Public Attribution License Version 1.0 (CPAL-1.0)
```

```
1. “Definitions”

   1.0.1 “Commercial Use” means distribution or otherwise making the
 Covered Code available to a third party.

   1.1 “Contributor” means each entity that creates or contributes to the
 creation of Modifications.

   1.2 “Contributor Version” means the combination of the Original Code,
 prior Modifications used by a Contributor, and the Modifications made by
 that particular Contributor.

   1.3 “Covered Code” means the Original Code or Modifications or the
 combination of the Original Code and Modifications, in each case including
 portions thereof.

   1.4 “Electronic Distribution Mechanism” means a mechanism generally
 accepted in the software development community for the electronic transfer
 of data.

   1.5 “Executable” means Covered Code in any form other than Source Code.

   1.6 “Initial Developer” means the individual or entity identified as the
 Initial Developer in the Source Code notice required by Exhibit A.

   1.7 “Larger Work” means a work which combines Covered Code or portions
 thereof with code not governed by the terms of this License.

   1.8 “License” means this document.

       1.8.1 “Licensable” means having the right to grant, to the maximum
 extent possible, whether at the time of the initial grant or subsequently
 acquired, any and all of the rights conveyed herein.

   1.9 “Modifications” means any addition to or deletion from the substance
 or structure of either the Original Code or any previous Modifications.
 When Covered Code is released as a series of files, a Modification is:

       A. Any addition to or deletion from the contents of a file
 containing Original Code or previous Modifications.

       B. Any new file that contains any part of the Original Code or
 previous Modifications.

   1.10 “Original Code” means Source Code of computer software code which
 is described in the Source Code notice required by Exhibit A as Original
 Code, and which, at the time of its release under this License is not
 already Covered Code governed by this License.

       1.10.1 “Patent Claims” means any patent claim(s), now owned or
 hereafter acquired, including without limitation, method, process, and
 apparatus claims, in any patent Licensable by grantor.

   1.11 “Source Code” means the preferred form of the Covered Code for
 making modifications to it, including all modules it contains, plus any
 associated interface definition files, scripts used to control compilation
 and installation of an Executable, or source code differential comparisons
 against either the Original Code or another well known, available Covered
 Code of the Contributor’s choice. The Source Code can be in a compressed
 or archival form, provided the appropriate decompression or de-archiving
 software is widely available for no charge.
```

```
    1.12 “You” (or “Your”) means an individual or a legal entity exercising
 rights under, and complying with all of the terms of, this License or
 a future version of this License issued under Section 6.1. For legal
 entities, “You” includes any entity which controls, is controlled by,
 or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. Source Code License.

    2.1 The Initial Developer Grant.
    The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive license, subject to third party intellectual property claims:

        (a) under intellectual property rights (other than patent or
 trademark) Licensable by Initial Developer to use, reproduce, modify,
 display, perform, sublicense and distribute the Original Code (or portions
 thereof) with or without Modifications, and/or as part of a Larger Work;
 and

        (b) under Patents Claims infringed by the making, using or selling
 of Original Code, to make, have made, use, practice, sell, and offer for
 sale, and/or otherwise dispose of the Original Code (or portions thereof).

        (c) the licenses granted in this Section 2.1(a) and (b) are
 effective on the date Initial Developer first distributes Original Code
 under the terms of this License.

        (d) Notwithstanding Section 2.1(b) above, no patent license is
 granted: 1) for code that You delete from the Original Code; 2) separate
 from the Original Code; or 3) for infringements caused by: i) the
 modification of the Original Code or ii) the combination of the Original
 Code with other software or devices.

    2.2 Contributor Grant.
    Subject to third party intellectual property claims, each Contributor
 hereby grants You a world-wide, royalty-free, non-exclusive license

        (a) under intellectual property rights (other than patent or
 trademark) Licensable by Contributor, to use, reproduce, modify, display,
 perform, sublicense and distribute the Modifications created by such
 Contributor (or portions thereof) either on an unmodified basis, with other
 Modifications, as Covered Code and/or as part of a Larger Work; and

        (b) under Patent Claims infringed by the making, using, or
 selling of Modifications made by that Contributor either alone and/or in
 combination with its Contributor Version (or portions of such combination),
 to make, use, sell, offer for sale, have made, and/or otherwise dispose of:
 1) Modifications made by that Contributor (or portions thereof); and 2) the
 combination of Modifications made by that Contributor with its Contributor
 Version (or portions of such combination).

        (c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective
 on the date Contributor first makes Commercial Use of the Covered Code.

        (d) Notwithstanding Section 2.2(b) above, no patent license is
 granted: 1) for any code that Contributor has deleted from the Contributor
 Version; 2) separate from the Contributor Version; 3) for infringements
 caused by: i) third party modifications of Contributor Version or ii) the
 combination of Modifications made by that Contributor with other software
 (except as part of the Contributor Version) or other devices; or 4) under
```

```
 Patent Claims infringed by Covered Code in the absence of Modifications
 made by that Contributor.

3. Distribution Obligations.

    3.1 Application of License.
    The Modifications which You create or to which You contribute are
 governed by the terms of this License, including without limitation Section
 2.2. The Source Code version of Covered Code may be distributed only under
 the terms of this License or a future version of this License released
 under Section 6.1, and You must include a copy of this License with every
 copy of the Source Code You distribute. You may not offer or impose any
 terms on any Source Code version that alters or restricts the applicable
 version of this License or the recipients' rights hereunder. However, You
 may include an additional document offering the additional rights described
 in Section 3.5.

    3.2 Availability of Source Code.
    Any Modification which You create or to which You contribute must
 be made available in Source Code form under the terms of this License
 either on the same media as an Executable version or via an accepted
 Electronic Distribution Mechanism to anyone to whom you made an Executable
 version available; and if made available via Electronic Distribution
 Mechanism, must remain available for at least twelve (12) months after
 the date it initially became available, or at least six (6) months after a
 subsequent version of that particular Modification has been made available
 to such recipients. You are responsible for ensuring that the Source Code
 version remains available even if the Electronic Distribution Mechanism is
 maintained by a third party.

    3.3 Description of Modifications.
    You must cause all Covered Code to which You contribute to contain
 a file documenting the changes You made to create that Covered Code
 and the date of any change. You must include a prominent statement that
 the Modification is derived, directly or indirectly, from Original Code
 provided by the Initial Developer and including the name of the Initial
 Developer in (a) the Source Code, and (b) in any notice in an Executable
 version or related documentation in which You describe the origin or
 ownership of the Covered Code.

    3.4 Intellectual Property Matters

        (a) Third Party Claims.
        If Contributor has knowledge that a license under a third party's
 intellectual property rights is required to exercise the rights granted
 by such Contributor under Sections 2.1 or 2.2, Contributor must include a
 text file with the Source Code distribution titled "LEGAL" which describes
 the claim and the party making the claim in sufficient detail that a
 recipient will know whom to contact. If Contributor obtains such knowledge
 after the Modification is made available as described in Section 3.2,
 Contributor shall promptly modify the LEGAL file in all copies Contributor
 makes available thereafter and shall take other steps (such as notifying
 appropriate mailing lists or newsgroups) reasonably calculated to inform
 those who received the Covered Code that new knowledge has been obtained.

        (b) Contributor APIs.
        If Contributor's Modifications include an application programming
 interface and Contributor has knowledge of patent licenses which are
 reasonably necessary to implement that API, Contributor must also include
 this information in the LEGAL file.

        (c) Representations.
        Contributor represents that, except as disclosed pursuant to Section
 3.4(a) above, Contributor believes that Contributor's Modifications are
```

```
Contributor's original creation(s) and/or Contributor has sufficient rights
to grant the rights conveyed by this License.

   3.5 Required Notices.
   You must duplicate the notice in Exhibit A in each file of the Source
Code. If it is not possible to put such notice in a particular Source Code
file due to its structure, then You must include such notice in a location
(such as a relevant directory) where a user would be likely to look for
such a notice. If You created one or more Modification(s) You may add
your name as a Contributor to the notice described in Exhibit A. You must
also duplicate this License in any documentation for the Source Code where
You describe recipients' rights or ownership rights relating to Covered
Code. You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Code. However, You may do so only on Your own behalf, and not on behalf
of the Initial Developer or any Contributor. You must make it absolutely
clear than any such warranty, support, indemnity or liability obligation
is offered by You alone, and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of warranty, support, indemnity
or liability terms You offer.

   3.6 Distribution of Executable Versions.
   You may distribute Covered Code in Executable form only if the
requirements of Section 3.1-3.5 have been met for that Covered Code,
and if You include a notice stating that the Source Code version of the
Covered Code is available under the terms of this License, including
a description of how and where You have fulfilled the obligations of
Section 3.2. The notice must be conspicuously included in any notice
in an Executable version, related documentation or collateral in which
You describe recipients' rights relating to the Covered Code. You may
distribute the Executable version of Covered Code or ownership rights
under a license of Your choice, which may contain terms different from
this License, provided that You are in compliance with the terms of this
License and that the license for the Executable version does not attempt
to limit or alter the recipient's rights in the Source Code version from
the rights set forth in this License. If You distribute the Executable
version under a different license You must make it absolutely clear that
any terms which differ from this License are offered by You alone, not by
the Initial Developer, Original Developer or any Contributor. You hereby
agree to indemnify the Initial Developer, Original Developer and every
Contributor for any liability incurred by the Initial Developer, Original
Developer or such Contributor as a result of any such terms You offer.

   3.7 Larger Works.
   You may create a Larger Work by combining Covered Code with other code
not governed by the terms of this License and distribute the Larger Work
as a single product. In such a case, You must make sure the requirements of
this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

   If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Code due to statute,
judicial order, or regulation then You must: (a) comply with the terms
of this License to the maximum extent possible; and (b) describe the
limitations and the code they affect. Such description must be included
in the LEGAL file described in Section 3.4 and must be included with
all distributions of the Source Code. Except to the extent prohibited by
statute or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Application of this License.
```

```
    This License applies to code to which the Initial Developer has attached
 the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

    6.1 New Versions.
    Socialtext, Inc. ("Socialtext") may publish revised and/or new
 versions of the License from time to time. Each version will be given a
 distinguishing version number.

    6.2 Effect of New Versions.
    Once Covered Code has been published under a particular version of
 the License, You may always continue to use it under the terms of that
 version. You may also choose to use such Covered Code under the terms of
 any subsequent version of the License published by Socialtext. No one other
 than Socialtext has the right to modify the terms applicable to Covered
 Code created under this License.

    6.3 Derivative Works.
    If You create or use a modified version of this License (which you may
 only do in order to apply it to code which is not already Covered Code
 governed by this License), You must (a) rename Your license so that the
 phrases "Socialtext", "CPAL" or any confusingly similar phrase do not
 appear in your license (except to note that your license differs from this
 License) and (b) otherwise make it clear that Your version of the license
 contains terms which differ from the CPAL. (Filling in the name of the
 Initial Developer, Original Developer, Original Code or Contributor in
 the notice described in Exhibit A shall not of themselves be deemed to be
 modifications of this License.)

7. DISCLAIMER OF WARRANTY.

    COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
 WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
 WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS,
 MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE
 RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU.
 SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE
 INITIAL DEVELOPER, ORIGINAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME
 THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER
 OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY
 COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

    8.1 This License and the rights granted hereunder will terminate
 automatically if You fail to comply with terms herein and fail to cure such
 breach within 30 days of becoming aware of the breach. All sublicenses to
 the Covered Code which are properly granted shall survive any termination
 of this License. Provisions which, by their nature, must remain in effect
 beyond the termination of this License shall survive.

    8.2 If You initiate litigation by asserting a patent infringement
 claim (excluding declatory judgment actions) against Initial Developer,
 Original Developer or a Contributor (the Initial Developer, Original
 Developer or Contributor against whom You file such action is referred to
 as "Participant") alleging that:

        (a) such Participant's Contributor Version directly or indirectly
 infringes any patent, then any and all rights granted by such Participant
 to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days
 notice from Participant terminate prospectively, unless if within 60 days
 after receipt of notice You either: (i) agree in writing to pay Participant
 a mutually agreeable reasonable royalty for Your past and future use of
```

Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3 If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4 In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ORIGINAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the

Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer, Original Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer, Original Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as Multiple-Licensed. Multiple-Licensed means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the CPAL or the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

14. ADDITIONAL TERM: ATTRIBUTION

(a) As a modest attribution to the organizer of the development of the Original Code ("Original Developer"), in the hope that its promotional value may help justify the time, money and effort invested in writing the Original Code, the Original Developer may include in Exhibit B ("Attribution Information") a requirement that each time an Executable and Source Code or a Larger Work is launched or initially run (which includes initiating a session), a prominent display of the Original Developer's Attribution Information (as defined below) must occur on the graphic user interface employed by the end user to access such Covered Code (which may include display on a splash screen), if any. The size of the graphic image should be consistent with the size of the other elements of the Attribution Information. If the access by the end user to the Executable and Source Code does not create a graphic user interface for access to the Covered Code, this obligation shall not apply. If the Original Code displays such Attribution Information in a particular form (such as in the form of a splash screen, notice at login, an "about" display, or dedicated attribution area on user interface screens), continued use of such form for that Attribution Information is one way of meeting this requirement for notice.

(b) Attribution information may only include a copyright notice, a brief phrase, graphic image and a URL ("Attribution Information") and is subject to the Attribution Limits as defined below. For these purposes, prominent shall mean display for sufficient duration to give reasonable notice to the user of the identity of the Original Developer and that if You include Attribution Information or similar information for other parties, You must ensure that the Attribution Information for the Original Developer shall be no less prominent than such Attribution Information or similar information for the other party. For greater certainty, the Original Developer may choose to specify in Exhibit B below that the above attribution requirement only applies to an Executable and Source Code resulting from the Original Code or any Modification, but not a Larger Work. The intent is to provide for reasonably modest attribution, therefore the Original Developer cannot require that You display, at any time, more than the following information as Attribution Information: (a) a copyright notice including the name of the Original Developer; (b) a word or one phrase (not exceeding 10 words);

(c) one graphic image provided by the Original Developer; and (d) a URL (collectively, the "Attribution Limits").

(c) If Exhibit B does not include any Attribution Information, then there are no requirements for You to display any Attribution Information of the Original Developer.

(d) You acknowledge that all trademarks, service marks and/or trade names contained within the Attribution Information distributed with the Covered Code are the exclusive property of their owners and may only be used with the permission of their owners, or under circumstances otherwise permitted by law or as expressly set out in this License.

15. ADDITIONAL TERM: NETWORK USE.

The term "External Deployment" means the use, distribution, or communication of the Original Code or Modifications in any way such that the Original Code or Modifications may be used by anyone other than You, whether those works are distributed or communicated to those persons or made available as an application intended for use over a network. As an express condition for the grants of license hereunder, You must treat any External Deployment by You of the Original Code or Modifications as a distribution under section 3.1 and make Source Code available under Section 3.2.

EXHIBIT A. Common Public Attribution License Version 1.0.

"The contents of this file are subject to the Common Public Attribution License Version 1.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at _____. The License is based on the Mozilla Public License Version 1.1 but Sections 14 and 15 have been added to cover use of software over a computer network and provide for limited attribution for the Original Developer. In addition, Exhibit A has been modified to be consistent with Exhibit B.

Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License for the specific language governing rights and limitations under the License.

The Original Code is_____.

The Original Developer is not the Initial Developer and is _____. If left blank, the Original Developer is the Initial Developer.

The Initial Developer of the Original Code is _____. All portions of the code written by _____ are Copyright (c) _____. All Rights Reserved.

Contributor _____.

Alternatively, the contents of this file may be used under the terms of the _____ license (the [___] License), in which case the provisions of [_____] License are applicable instead of those above.

If you wish to allow use of your version of this file only under the terms of the [____] License and not to allow others to use your version of this file under the CPAL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the [___] License. If you do not delete the provisions above, a recipient may use your version of this file under either the CPAL or the [___] License."

```
    [NOTE: The text of this Exhibit A may differ slightly from the text of
 the notices in the Source Code files of the Original Code. You should use
 the text of this Exhibit A rather than the text found in the Original Code
 Source Code for Your Modifications.]

EXHIBIT B. Attribution Information

    Attribution Copyright Notice: _______________________

    Attribution Phrase (not exceeding 10 words): _______________________

    Attribution URL: _______________________

    Graphic Image as provided in the Covered Code, if any.

    Display of Attribution Information is [required/not required] in Larger
 Works which are defined in the CPAL as a work which combines Covered Code
 or portions thereof with code not governed by the terms of the CPAL.


==========================================================================

 Hamcrest Core (org.hamcrest:hamcrest-core:1.3 - https://github.com/
hamcrest/JavaHamcrest/hamcrest-core)

BSD License

Copyright (c) 2000-2015 www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of
conditions and the following disclaimer. Redistributions in binary form must
 reproduce
the above copyright notice, this list of conditions and the following
 disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used
 to endorse
or promote products derived from this software without specific prior
 written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY
```

```
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
DAMAGE.

=====================================================================
commons-lang3:3.5
(Apache 2.0 License) - SEE FULL TEXT ABOVE
```

Provider: Apache Software Foundation (ASF) / Component(s): Commons Configuration 2.4

```
Apache Commons Configuration 2.5

COPYRIGHT: Copyright 2001-2019 The Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/commons-configuration/blob/
commons-configuration-2.5/LICENSE.txt

NOTICE:
Apache Commons Configuration
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS



**********************
4P Dependencies:
**********************

commons-logging » commons-logging 1.2

COPYRIGHT: Copyright 2003-2016 The Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/master/
LICENSE.txt

NOTICE:
Apache Commons Logging
Copyright 2003-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


---
org.apache.commons commons-lang3 3.9

COPYRIGHT: Copyright 2001-2018 The Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/commons-lang/blob/commons-
lang-3.9/LICENSE.txt

NOTICE:
Apache Commons Lang
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



---
org.apache.commons commons-text 1.6

COPYRIGHT: Copyright 2014-2019 The Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/commons-text/blob/master/
LICENSE.txt

NOTICE:
```

```
Apache Commons Text
Copyright 2014-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
```

Provider: Apache / Component(s): Commons FileUpload 1.4

```
Apache Commons FileUpload
Copyright 2002-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

---------separator---------

commons-io 2.6 (Apache 2.0)


Apache Commons IO
Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION



   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]


   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Apache / Component(s): Commons IO 2.6

```
 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Oracle must give recipients a copy of this license (doc)
```

Provider: Apache / Component(s): Commons Lang 3.4

```
1) Include the following verbatim in the documentation:  Apache 2.0 License
Ships with following notice file
Apache Commons Lang
Copyright 2001-2011 The Apache Software Foundation
This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).
This product includes software from the Spring Framework,under the Apache
 License 2.0 (see: StringUtils.containsWhitespace())
2. Include the following License ONLY ONCE in the documentation even if
 there are multiple products licensed under the license.

The following applies to all products licensed under the Apache 2.0 License:

You may not use the identified files except in compliance with the Apache
 License, Version 2.0 (the "License.")

You may obtain a copy of the License at http://www.apache.org/licenses/
LICENSE-2.0.  A copy of the license is also reproduced below.

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and
 limitations under the License.

                   Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
```

```
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
```

```
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Apache / Component(s): Commons Lang 3.9

```
Commons-Lang3 v3.9

NOTICE:
Apache Commons Lang
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
```

```
The Apache Software Foundation (http://www.apache.org/).


LICENSE: Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
 limitations under the License.
```

Provider: Apache / Component(s): Commons Net 3.6

```
Copyright 2001-2008 The Apache Software Foundation

Apache Commons Net
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

/*
 *                                 Apache License
 *                           Version 2.0, January 2004
 *                        http://www.apache.org/licenses/
 *
 *   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
 *
 *   1. Definitions.
 *
 *      "License" shall mean the terms and conditions for use, reproduction,
 *      and distribution as defined by Sections 1 through 9 of this
 document.
 *
 *      "Licensor" shall mean the copyright owner or entity authorized by
 *      the copyright owner that is granting the License.
 *
 *      "Legal Entity" shall mean the union of the acting entity and all
 *      other entities that control, are controlled by, or are under common
 *      control with that entity. For the purposes of this definition,
 *      "control" means (i) the power, direct or indirect, to cause the
 *      direction or management of such entity, whether by contract or
 *      otherwise, or (ii) ownership of fifty percent (50%) or more of the
 *      outstanding shares, or (iii) beneficial ownership of such entity.
 *
 *      "You" (or "Your") shall mean an individual or Legal Entity
 *      exercising permissions granted by this License.
 *
 *      "Source" form shall mean the preferred form for making
 modifications,
 *      including but not limited to software source code, documentation
 *      source, and configuration files.
 *
 *      "Object" form shall mean any form resulting from mechanical
 *      transformation or translation of a Source form, including but
 *      not limited to compiled object code, generated documentation,
```

```
*      and conversions to other media types.
*
*      "Work" shall mean the work of authorship, whether in Source or
*      Object form, made available under the License, as indicated by a
*      copyright notice that is included in or attached to the work
*      (an example is provided in the Appendix below).
*
*      "Derivative Works" shall mean any work, whether in Source or Object
*      form, that is based on (or derived from) the Work and for which the
*      editorial revisions, annotations, elaborations, or other
modifications
*      represent, as a whole, an original work of authorship. For the
purposes
*      of this License, Derivative Works shall not include works that
remain
*      separable from, or merely link (or bind by name) to the interfaces
of,
*      the Work and Derivative Works thereof.
*
*      "Contribution" shall mean any work of authorship, including
*      the original version of the Work and any modifications or additions
*      to that Work or Derivative Works thereof, that is intentionally
*      submitted to Licensor for inclusion in the Work by the copyright
owner
*      or by an individual or Legal Entity authorized to submit on behalf
of
*      the copyright owner. For the purposes of this definition,
"submitted"
*      means any form of electronic, verbal, or written communication sent
*      to the Licensor or its representatives, including but not limited to
*      communication on electronic mailing lists, source code control
systems,
*      and issue tracking systems that are managed by, or on behalf of, the
*      Licensor for the purpose of discussing and improving the Work, but
*      excluding communication that is conspicuously marked or otherwise
*      designated in writing by the copyright owner as "Not a
Contribution."
*
*      "Contributor" shall mean Licensor and any individual or Legal Entity
*      on behalf of whom a Contribution has been received by Licensor and
*      subsequently incorporated within the Work.
*
*   2. Grant of Copyright License. Subject to the terms and conditions of
*      this License, each Contributor hereby grants to You a perpetual,
*      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
*      copyright license to reproduce, prepare Derivative Works of,
*      publicly display, publicly perform, sublicense, and distribute the
*      Work and such Derivative Works in Source or Object form.
*
*   3. Grant of Patent License. Subject to the terms and conditions of
*      this License, each Contributor hereby grants to You a perpetual,
*      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
*      (except as stated in this section) patent license to make, have
made,
*      use, offer to sell, sell, import, and otherwise transfer the Work,
*      where such license applies only to those patent claims licensable
*      by such Contributor that are necessarily infringed by their
*      Contribution(s) alone or by combination of their Contribution(s)
*      with the Work to which such Contribution(s) was submitted. If You
*      institute patent litigation against any entity (including a
*      cross-claim or counterclaim in a lawsuit) alleging that the Work
*      or a Contribution incorporated within the Work constitutes direct
*      or contributory patent infringement, then any patent licenses
*      granted to You under this License for that Work shall terminate
```

```
*      as of the date such litigation is filed.
*
*   4. Redistribution. You may reproduce and distribute copies of the
*      Work or Derivative Works thereof in any medium, with or without
*      modifications, and in Source or Object form, provided that You
*      meet the following conditions:
*
*      (a) You must give any other recipients of the Work or
*          Derivative Works a copy of this License; and
*
*      (b) You must cause any modified files to carry prominent notices
*          stating that You changed the files; and
*
*      (c) You must retain, in the Source form of any Derivative Works
*          that You distribute, all copyright, patent, trademark, and
*          attribution notices from the Source form of the Work,
*          excluding those notices that do not pertain to any part of
*          the Derivative Works; and
*
*      (d) If the Work includes a "NOTICE" text file as part of its
*          distribution, then any Derivative Works that You distribute must
*          include a readable copy of the attribution notices contained
*          within such NOTICE file, excluding those notices that do not
*          pertain to any part of the Derivative Works, in at least one
*          of the following places: within a NOTICE text file distributed
*          as part of the Derivative Works; within the Source form or
*          documentation, if provided along with the Derivative Works; or,
*          within a display generated by the Derivative Works, if and
*          wherever such third-party notices normally appear. The contents
*          of the NOTICE file are for informational purposes only and
*          do not modify the License. You may add Your own attribution
*          notices within Derivative Works that You distribute, alongside
*          or as an addendum to the NOTICE text from the Work, provided
*          that such additional attribution notices cannot be construed
*          as modifying the License.
*
*      You may add Your own copyright statement to Your modifications and
*      may provide additional or different license terms and conditions
*      for use, reproduction, or distribution of Your modifications, or
*      for any such Derivative Works as a whole, provided Your use,
*      reproduction, and distribution of the Work otherwise complies with
*      the conditions stated in this License.
*
*   5. Submission of Contributions. Unless You explicitly state otherwise,
*      any Contribution intentionally submitted for inclusion in the Work
*      by You to the Licensor shall be under the terms and conditions of
*      this License, without any additional terms or conditions.
*      Notwithstanding the above, nothing herein shall supersede or modify
*      the terms of any separate license agreement you may have executed
*      with Licensor regarding such Contributions.
*
*   6. Trademarks. This License does not grant permission to use the trade
*      names, trademarks, service marks, or product names of the Licensor,
*      except as required for reasonable and customary use in describing
the
*      origin of the Work and reproducing the content of the NOTICE file.
*
*   7. Disclaimer of Warranty. Unless required by applicable law or
*      agreed to in writing, Licensor provides the Work (and each
*      Contributor provides its Contributions) on an "AS IS" BASIS,
*      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
*      implied, including, without limitation, any warranties or conditions
*      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
*      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
 *      appropriateness of using or redistributing the Work and assume any
 *      risks associated with Your exercise of permissions under this
 License.
 *
 *   8. Limitation of Liability. In no event and under no legal theory,
 *      whether in tort (including negligence), contract, or otherwise,
 *      unless required by applicable law (such as deliberate and grossly
 *      negligent acts) or agreed to in writing, shall any Contributor be
 *      liable to You for damages, including any direct, indirect, special,
 *      incidental, or consequential damages of any character arising as a
 *      result of this License or out of the use or inability to use the
 *      Work (including but not limited to damages for loss of goodwill,
 *      work stoppage, computer failure or malfunction, or any and all
 *      other commercial damages or losses), even if such Contributor
 *      has been advised of the possibility of such damages.
 *
 *   9. Accepting Warranty or Additional Liability. While redistributing
 *      the Work or Derivative Works thereof, You may choose to offer,
 *      and charge a fee for, acceptance of support, warranty, indemnity,
 *      or other liability obligations and/or rights consistent with this
 *      License. However, in accepting such obligations, You may act only
 *      on Your own behalf and on Your sole responsibility, not on behalf
 *      of any other Contributor, and only if You agree to indemnify,
 *      defend, and hold each Contributor harmless for any liability
 *      incurred by, or claims asserted against, such Contributor by reason
 *      of your accepting any such warranty or additional liability.
 *
 *   END OF TERMS AND CONDITIONS
 *
 *   APPENDIX: How to apply the Apache License to your work.
 *
 *      To apply the Apache License to your work, attach the following
 *      boilerplate notice, with the fields enclosed by brackets "[]"
 *      replaced with your own identifying information. (Don't include
 *      the brackets!)  The text should be enclosed in the appropriate
 *      comment syntax for the file format. We also recommend that a
 *      file or class name and description of purpose be included on the
 *      same "printed page" as the copyright notice for easier
 *      identification within third-party archives.
 *
 *   Copyright [yyyy] [name of copyright owner]
 *
 *   Licensed under the Apache License, Version 2.0 (the "License");
 *   you may not use this file except in compliance with the License.
 *   You may obtain a copy of the License at
 *
 *       http://www.apache.org/licenses/LICENSE-2.0
 *
 *   Unless required by applicable law or agreed to in writing, software
 *   distributed under the License is distributed on an "AS IS" BASIS,
 *   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
 *   See the License for the specific language governing permissions and
 *   limitations under the License.
 */
```

Provider: Apache / Component(s): Commons Pool 2.6.2

```
TOP-LEVEL COPYRIGHT NOTICE :
--------------------------------------------

Apache Commons Pool
```

```
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


TOP-LEVEL LICENSE TEXT:
-------------------------------------------

"/*
 *                                 Apache License
 *                           Version 2.0, January 2004
 *                        http://www.apache.org/licenses/
 *
 *   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
 *
 *   1. Definitions.
 *
 *      ""License"" shall mean the terms and conditions for use,
 reproduction,
 *      and distribution as defined by Sections 1 through 9 of this
 document.
 *
 *      ""Licensor"" shall mean the copyright owner or entity authorized by
 *      the copyright owner that is granting the License.
 *
 *      ""Legal Entity"" shall mean the union of the acting entity and all
 *      other entities that control, are controlled by, or are under common
 *      control with that entity. For the purposes of this definition,
 *      ""control"" means (i) the power, direct or indirect, to cause the
 *      direction or management of such entity, whether by contract or
 *      otherwise, or (ii) ownership of fifty percent (50%) or more of the
 *      outstanding shares, or (iii) beneficial ownership of such entity.
 *
 *      ""You"" (or ""Your"") shall mean an individual or Legal Entity
 *      exercising permissions granted by this License.
 *
 *      ""Source"" form shall mean the preferred form for making
 modifications,
 *      including but not limited to software source code, documentation
 *      source, and configuration files.
 *
 *      ""Object"" form shall mean any form resulting from mechanical
 *      transformation or translation of a Source form, including but
 *      not limited to compiled object code, generated documentation,
 *      and conversions to other media types.
 *
 *      ""Work"" shall mean the work of authorship, whether in Source or
 *      Object form, made available under the License, as indicated by a
 *      copyright notice that is included in or attached to the work
 *      (an example is provided in the Appendix below).
 *
 *      ""Derivative Works"" shall mean any work, whether in Source or
 Object
 *      form, that is based on (or derived from) the Work and for which the
 *      editorial revisions, annotations, elaborations, or other
 modifications
 *      represent, as a whole, an original work of authorship. For the
 purposes
 *      of this License, Derivative Works shall not include works that
 remain
 *      separable from, or merely link (or bind by name) to the interfaces
 of,
 *      the Work and Derivative Works thereof.
```

```
*
*      ""Contribution"" shall mean any work of authorship, including
*      the original version of the Work and any modifications or additions
*      to that Work or Derivative Works thereof, that is intentionally
*      submitted to Licensor for inclusion in the Work by the copyright
owner
*      or by an individual or Legal Entity authorized to submit on behalf
of
*      the copyright owner. For the purposes of this definition,
""submitted""
*      means any form of electronic, verbal, or written communication sent
*      to the Licensor or its representatives, including but not limited to
*      communication on electronic mailing lists, source code control
systems,
*      and issue tracking systems that are managed by, or on behalf of, the
*      Licensor for the purpose of discussing and improving the Work, but
*      excluding communication that is conspicuously marked or otherwise
*      designated in writing by the copyright owner as ""Not a
Contribution.""
*
*      ""Contributor"" shall mean Licensor and any individual or Legal
Entity
*      on behalf of whom a Contribution has been received by Licensor and
*      subsequently incorporated within the Work.
*
*   2. Grant of Copyright License. Subject to the terms and conditions of
*      this License, each Contributor hereby grants to You a perpetual,
*      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
*      copyright license to reproduce, prepare Derivative Works of,
*      publicly display, publicly perform, sublicense, and distribute the
*      Work and such Derivative Works in Source or Object form.
*
*   3. Grant of Patent License. Subject to the terms and conditions of
*      this License, each Contributor hereby grants to You a perpetual,
*      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
*      (except as stated in this section) patent license to make, have
made,
*      use, offer to sell, sell, import, and otherwise transfer the Work,
*      where such license applies only to those patent claims licensable
*      by such Contributor that are necessarily infringed by their
*      Contribution(s) alone or by combination of their Contribution(s)
*      with the Work to which such Contribution(s) was submitted. If You
*      institute patent litigation against any entity (including a
*      cross-claim or counterclaim in a lawsuit) alleging that the Work
*      or a Contribution incorporated within the Work constitutes direct
*      or contributory patent infringement, then any patent licenses
*      granted to You under this License for that Work shall terminate
*      as of the date such litigation is filed.
*
*   4. Redistribution. You may reproduce and distribute copies of the
*      Work or Derivative Works thereof in any medium, with or without
*      modifications, and in Source or Object form, provided that You
*      meet the following conditions:
*
*      (a) You must give any other recipients of the Work or
*          Derivative Works a copy of this License; and
*
*      (b) You must cause any modified files to carry prominent notices
*          stating that You changed the files; and
*
*      (c) You must retain, in the Source form of any Derivative Works
*          that You distribute, all copyright, patent, trademark, and
*          attribution notices from the Source form of the Work,
*          excluding those notices that do not pertain to any part of
```

```
*          the Derivative Works; and
*
*      (d) If the Work includes a ""NOTICE"" text file as part of its
*          distribution, then any Derivative Works that You distribute must
*          include a readable copy of the attribution notices contained
*          within such NOTICE file, excluding those notices that do not
*          pertain to any part of the Derivative Works, in at least one
*          of the following places: within a NOTICE text file distributed
*          as part of the Derivative Works; within the Source form or
*          documentation, if provided along with the Derivative Works; or,
*          within a display generated by the Derivative Works, if and
*          wherever such third-party notices normally appear. The contents
*          of the NOTICE file are for informational purposes only and
*          do not modify the License. You may add Your own attribution
*          notices within Derivative Works that You distribute, alongside
*          or as an addendum to the NOTICE text from the Work, provided
*          that such additional attribution notices cannot be construed
*          as modifying the License.
*
*      You may add Your own copyright statement to Your modifications and
*      may provide additional or different license terms and conditions
*      for use, reproduction, or distribution of Your modifications, or
*      for any such Derivative Works as a whole, provided Your use,
*      reproduction, and distribution of the Work otherwise complies with
*      the conditions stated in this License.
*
*   5. Submission of Contributions. Unless You explicitly state otherwise,
*      any Contribution intentionally submitted for inclusion in the Work
*      by You to the Licensor shall be under the terms and conditions of
*      this License, without any additional terms or conditions.
*      Notwithstanding the above, nothing herein shall supersede or modify
*      the terms of any separate license agreement you may have executed
*      with Licensor regarding such Contributions.
*
*   6. Trademarks. This License does not grant permission to use the trade
*      names, trademarks, service marks, or product names of the Licensor,
*      except as required for reasonable and customary use in describing
the
*      origin of the Work and reproducing the content of the NOTICE file.
*
*   7. Disclaimer of Warranty. Unless required by applicable law or
*      agreed to in writing, Licensor provides the Work (and each
*      Contributor provides its Contributions) on an ""AS IS"" BASIS,
*      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
*      implied, including, without limitation, any warranties or conditions
*      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
*      PARTICULAR PURPOSE. You are solely responsible for determining the
*      appropriateness of using or redistributing the Work and assume any
*      risks associated with Your exercise of permissions under this
License.
*
*   8. Limitation of Liability. In no event and under no legal theory,
*      whether in tort (including negligence), contract, or otherwise,
*      unless required by applicable law (such as deliberate and grossly
*      negligent acts) or agreed to in writing, shall any Contributor be
*      liable to You for damages, including any direct, indirect, special,
*      incidental, or consequential damages of any character arising as a
*      result of this License or out of the use or inability to use the
*      Work (including but not limited to damages for loss of goodwill,
*      work stoppage, computer failure or malfunction, or any and all
*      other commercial damages or losses), even if such Contributor
*      has been advised of the possibility of such damages.
*
*   9. Accepting Warranty or Additional Liability. While redistributing
```

```
 *      the Work or Derivative Works thereof, You may choose to offer,
 *      and charge a fee for, acceptance of support, warranty, indemnity,
 *      or other liability obligations and/or rights consistent with this
 *      License. However, in accepting such obligations, You may act only
 *      on Your own behalf and on Your sole responsibility, not on behalf
 *      of any other Contributor, and only if You agree to indemnify,
 *      defend, and hold each Contributor harmless for any liability
 *      incurred by, or claims asserted against, such Contributor by reason
 *      of your accepting any such warranty or additional liability.
 *
 *   END OF TERMS AND CONDITIONS
 *
 *   APPENDIX: How to apply the Apache License to your work.
 *
 *      To apply the Apache License to your work, attach the following
 *      boilerplate notice, with the fields enclosed by brackets ""[]""
 *      replaced with your own identifying information. (Don't include
 *      the brackets!)  The text should be enclosed in the appropriate
 *      comment syntax for the file format. We also recommend that a
 *      file or class name and description of purpose be included on the
 *      same ""printed page"" as the copyright notice for easier
 *      identification within third-party archives.
 *
 *   Copyright [yyyy] [name of copyright owner]
 *
 *   Licensed under the Apache License, Version 2.0 (the ""License"");
 *   you may not use this file except in compliance with the License.
 *   You may obtain a copy of the License at
 *
 *       http://www.apache.org/licenses/LICENSE-2.0
 *
 *   Unless required by applicable law or agreed to in writing, software
 *   distributed under the License is distributed on an ""AS IS"" BASIS,
 *   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
 *   See the License for the specific language governing permissions and
 *   limitations under the License.
 */


DEPENDENCIES:
--------------------------------------------

cglib (Apache License 2.0)
Copyright 2005 The Apache Software Foundation
This product includes software developed by The Apache Software Foundation
 (http://www.apache.org/).

Apache Ant (Apache License 2.0)
Copyright 1999-2018 The Apache Software Foundation
This product includes software developed at The Apache Software Foundation
 (http://www.apache.org/).
The <sync> task is based on code Copyright (c) 2002, Landmark Graphics Corp
 that has been kindly donated to the Apache Software Foundation.

ASM (The 3-Clause BSD License)
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.


DEPENDENCY LICENSES:
--------------------------------------------

                                Apache License
                           Version 2.0, January 2004
```

```
                         http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
```

```
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------

The 3-Clause BSD License

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of
conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list
of conditions and the following disclaimer in the documentation and/or other
 materials
provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be
used to endorse or promote products derived from this software without
 specific prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL
THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, , INCIDENTAL,
 SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Apache Software Foundation / Component(s): Commons Lang 3.8.1

```
LICENSE:

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
```

```
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
 limitations under the License.

------------------------------
COPYRIGHT:

Ships with following notice file:

Apache Commons Lang
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

Provider: Apache / Component(s): Derby 10.15.1.3

```
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
```

```
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
```

```
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for the Apache Derby distribution.       ==
=========================================================================

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).
```

```
Portions of Derby were orginally developed by
International Business Machines Corporation and are
licensed to the Apache Software Foundation under the
"Software Grant and Corporate Contribution License Agreement",
informally known as the "Derby CLA".

The portion of the functionTests under 'nist' was originally
developed by the National Institute of Standards and Technology (NIST),
an agency of the United States Department of Commerce, and adapted by
International Business Machines Corporation in accordance with the NIST
Software Acknowledgment and Redistribution document at
http://www.itl.nist.gov/div897/ctg/sql_form.htm

The XSL stylesheets in the documentation source directory 'lib'
were originally developed by the DITA Open Toolkit project as part
of DITA-OT 1.1.2.1. These files are copyright 2004, 2005 IBM Corp.
and licensed under the Apache License Version 2.0. See DITA project
page at http://dita-ot.sourceforge.net/

COPYRIGHT
The following copyright notice(s) were affixed to portions of the code
with which this file is now or was at one time distributed
and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation.  All
 rights reserved.
```

Provider: Apache / Component(s): echarts 5.4.3

```
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            echarts
License         Apache License 2.0

License Text                              Apache License
                          Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.




==========================================================================
Apache ECharts Subcomponents:

The Apache ECharts project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for these
subcomponents is also subject to the terms and conditions of the following
licenses.

BSD 3-Clause (d3.js):
```

```
The following files embed [d3.js](https://github.com/d3/d3) BSD 3-Clause:
    `/src/chart/treemap/treemapLayout.ts`,
    `/src/chart/tree/layoutHelper.ts`,
    `/src/chart/graph/forceHelper.ts`,
    `/src/util/number.ts`
See `/licenses/LICENSE-d3` for details of the license.

------------
 ---------------------------------------------------------------------------------

------------
 ---------------------------------------------------------------------------------

Name                tslib
License             BSD - 0-clause
License Text            Copyright (c) Microsoft Corporation.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

------------
 ---------------------------------------------------------------------------------

------------
 ---------------------------------------------------------------------------------

Name                zrender
License             BSD-3-Clause
License Text            BSD 3-Clause License

Copyright (c) 2017, Baidu Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
```

```
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------
Name.             D3
License
License Text                        Copyright 2010-2023 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.
----------------------------------------
Depends on commander, license follows
(The MIT License)

Copyright (c) 2011 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------
Depends on d3-array, license follows
Copyright 2010-2023 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
```

```
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-axis, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-brush, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-chord, license follows
Copyright 2010-2021 Mike Bostock
```

```
Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-color, license follows
Copyright 2010-2022 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-contour, license follows
Copyright 2012-2023 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
```

```
THIS SOFTWARE.

----------------------------------------
Depends on d3-delaunay, license follows
Copyright 2018-2021 Observable, Inc.
Copyright 2021 Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-dispatch, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-drag, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
```

```
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-dsv, license follows
Copyright 2013-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-ease, license follows
Copyright 2010-2021 Mike Bostock
Copyright 2001 Robert Penner
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the author nor the names of contributors may be used
 to
  endorse or promote products derived from this software without specific
 prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
```

```
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------
Depends on d3-fetch, license follows
Copyright 2016-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-force, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-format, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.
```

```
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------------------------------------
Depends on d3-geo, license follows
Copyright 2010-2022 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

This license applies to GeographicLib.

Copyright 2008-2012 Charles Karney

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
----------------------------------------
Depends on d3-hierarchy, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-interpolate, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-path, license follows
Copyright 2015-2022 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
```

```
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-polygon, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-quadtree, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-random, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
```

```
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-scale, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-scale-chromatic, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

Apache-Style Software License for ColorBrewer software and ColorBrewer Color
 Schemes

Copyright 2002 Cynthia Brewer, Mark Harrower, and The Pennsylvania State
 University
```

```
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License. You may obtain a copy of
 the
License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the
specific language governing permissions and limitations under the License.

----------------------------------------
Depends on d3-selection, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-shape, license follows
Copyright 2010-2022 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-time, license follows
Copyright 2010-2022 Mike Bostock
```

```
Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------------------------------------
Depends on d3-time-format, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------------------------------------
Depends on d3-timer, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.
```

```
----------------------------------------
Depends on d3-transition, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-zoom, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on delaunator, license follows
ISC License

Copyright (c) 2017, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
```

```
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on iconv-lite, license follows
Copyright (c) 2011 Alexander Shtuchkin

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------
Depends on internmap, license follows
Copyright 2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on robust-predicates, license follows
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
```

```
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

----------------------------------------
Depends on rw, license follows
Copyright (c) 2014-2016, Michael Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* The name Michael Bostock may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------
Depends on safer-buffer, license follows
MIT License

Copyright (c) 2018 Nikita Skovoroda <chalkerx@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Apache / Component(s): echarts 5.4.3

```
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name            echarts
License         Apache License 2.0

License Text                                Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.




=========================================================================
Apache ECharts Subcomponents:

The Apache ECharts project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for these
subcomponents is also subject to the terms and conditions of the following
licenses.

BSD 3-Clause (d3.js):
The following files embed [d3.js](https://github.com/d3/d3) BSD 3-Clause:
    `/src/chart/treemap/treemapLayout.ts`,
    `/src/chart/tree/layoutHelper.ts`,
    `/src/chart/graph/forceHelper.ts`,
    `/src/util/number.ts`
See `/licenses/LICENSE-d3` for details of the license.

------------
 ---------------------------------------------------------------------------------

------------
 ---------------------------------------------------------------------------------

Name                tslib
```

```
License             BSD - 0-clause
License Text            Copyright (c) Microsoft Corporation.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

------------
 ------------------------------------------------------------------------------

------------
 ------------------------------------------------------------------------------

Name                zrender
License             BSD-3-Clause
License Text            BSD 3-Clause License

Copyright (c) 2017, Baidu Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------------
Name.             D3
License
License Text                        Copyright 2010-2023 Mike Bostock
```

```
Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.
----------------------------------------
Depends on commander, license follows
(The MIT License)

Copyright (c) 2011 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------
Depends on d3-array, license follows
Copyright 2010-2023 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
```

```
THIS SOFTWARE.

----------------------------------------
Depends on d3-axis, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-brush, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-chord, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
```

```
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-color, license follows
Copyright 2010-2022 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-contour, license follows
Copyright 2012-2023 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-delaunay, license follows
Copyright 2018-2021 Observable, Inc.
Copyright 2021 Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.
```

```
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-dispatch, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-drag, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-dsv, license follows
Copyright 2013-2021 Mike Bostock
```

```
Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-ease, license follows
Copyright 2010-2021 Mike Bostock
Copyright 2001 Robert Penner
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the author nor the names of contributors may be used
 to
  endorse or promote products derived from this software without specific
 prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------
Depends on d3-fetch, license follows
Copyright 2016-2021 Mike Bostock
```

```
Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-force, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-format, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.
```

```
----------------------------------------
Depends on d3-geo, license follows
Copyright 2010-2022 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

This license applies to GeographicLib.

Copyright 2008-2012 Charles Karney

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------
Depends on d3-hierarchy, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.
```

```
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------------------------------------
Depends on d3-interpolate, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------------------------------------
Depends on d3-path, license follows
Copyright 2015-2022 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------------------------------------
Depends on d3-polygon, license follows
Copyright 2010-2021 Mike Bostock
```

```
Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-quadtree, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-random, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.
```

```
----------------------------------------
Depends on d3-scale, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-scale-chromatic, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

Apache-Style Software License for ColorBrewer software and ColorBrewer Color
 Schemes

Copyright 2002 Cynthia Brewer, Mark Harrower, and The Pennsylvania State
 University

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License. You may obtain a copy of
 the
License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
```

```
CONDITIONS OF ANY KIND, either express or implied. See the License for the
specific language governing permissions and limitations under the License.

----------------------------------------
Depends on d3-selection, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-shape, license follows
Copyright 2010-2022 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-time, license follows
Copyright 2010-2022 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
```

```
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-time-format, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-timer, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

----------------------------------------
Depends on d3-transition, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.
```

```
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------------------------------------
Depends on d3-zoom, license follows
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------------------------------------
Depends on delaunator, license follows
ISC License

Copyright (c) 2017, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------------------------------------
Depends on iconv-lite, license follows
Copyright (c) 2011 Alexander Shtuchkin
```

```
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------------
Depends on internmap, license follows
Copyright 2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------------------------------------
Depends on robust-predicates, license follows
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
```

```
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

----------------------------------------
Depends on rw, license follows
Copyright (c) 2014-2016, Michael Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* The name Michael Bostock may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------
Depends on safer-buffer, license follows
MIT License

Copyright (c) 2018 Nikita Skovoroda <chalkerx@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Apache / Component(s): hadoop-common 2.7.2

```
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
```

```
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
a.You must give any other recipients of the Work or Derivative Works a copy
 of this License; and
b.You must cause any modified files to carry prominent notices stating that
 You changed the files; and
c.You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
d.If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

 You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
```

```
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Fourth Party Dependency licenses:
[1]
https://github.com/apache/hadoop-common/blob/HADOOP-3628/ivy.xml
<!--
   Licensed to the Apache Software Foundation (ASF) under one or more
   contributor license agreements.  See the NOTICE file distributed with
   this work for additional information regarding copyright ownership.
   The ASF licenses this file to You under the Apache License, Version 2.0
   (the "License"); you may not use this file except in compliance with
   the License.  You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-->
[2] https://github.com/apache/hadoop-common/blob/HADOOP-3628/
LICENSE.txt#L205
```

```
APACHE HADOOP SUBCOMPONENTS:

The Apache Hadoop project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.

For the org.apache.hadoop.util.bloom.* classes:

/**
 *
 * Copyright (c) 2005, European Commission project OneLab under contract
 * 034819 (http://www.one-lab.org)
 * All rights reserved.
 * Redistribution and use in source and binary forms, with or
 * without modification, are permitted provided that the following
 * conditions are met:
 *  - Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *  - Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 distribution.
 *  - Neither the name of the University Catholique de Louvain - UCL
 *    nor the names of its contributors may be used to endorse or
 *    promote products derived from this software without specific prior
 *    written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 * COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
 * BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 * CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
 * ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */
```

Provider: Apache / Component(s): hadoop-hdfs 2.7.2

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
```

```
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
```

```
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
```

```
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


APACHE HADOOP SUBCOMPONENTS:

The Apache Hadoop project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
```

```
subcomponents is subject to the terms and conditions of the following
licenses.

For the org.apache.hadoop.util.bloom.* classes:

/**
 *
 * Copyright (c) 2005, European Commission project OneLab under contract
 * 034819 (http://www.one-lab.org)
 * All rights reserved.
 * Redistribution and use in source and binary forms, with or
 * without modification, are permitted provided that the following
 * conditions are met:
 *  - Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *  - Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 distribution.
 *  - Neither the name of the University Catholique de Louvain - UCL
 *    nor the names of its contributors may be used to endorse or
 *    promote products derived from this software without specific prior
 *    written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 * COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
 * BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 * CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
 * ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */

For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

/**
 *   Copyright 2008,2009,2010 Massachusetts Institute of Technology.
 *   All rights reserved. Use of this source code is governed by a
 *   BSD-style license that can be found in the LICENSE file.
 */

For src/main/native/src/org/apache/hadoop/io/compress/lz4/
{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*
   LZ4 - Fast LZ compression algorithm
   Header File
   Copyright (C) 2011-2014, Yann Collet.
   BSD 2-Clause License (http://www.opensource.org/licenses/bsd-license.php)

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

       * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
       * Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following disclaimer
```

```
   in the documentation and/or other materials provided with the
   distribution.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

   You can contact the author at :
   - LZ4 source repository : http://code.google.com/p/lz4/
   - LZ4 public forum : https://groups.google.com/forum/#!forum/lz4c
*/


For hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-
client-nativetask/src/main/native/gtest
---------------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The binary distribution of this product bundles these dependencies under the
following license:
re2j 1.0
---------------------------------------------------------------------
This is a work derived from Russ Cox's RE2 in Go, whose license
http://golang.org/LICENSE is as follows:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

   * Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.

   * Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
     distribution.

   * Neither the name of Google Inc. nor the names of its contributors
     may be used to endorse or promote products derived from this
     software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/
util/tree.h
---------------------------------------------------------------------
Copyright 2002 Niels Provos <provos@citi.umich.edu>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The binary distribution of this product bundles binaries of leveldbjni
(https://github.com/fusesource/leveldbjni), which is available under the
following license:

Copyright (c) 2011 FuseSource Corp. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of FuseSource Corp. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|
unlinkat}.h:

Copyright (c) 2012 The FreeBSD Foundation
All rights reserved.

This software was developed by Pawel Jakub Dawidek under sponsorship from
the FreeBSD Foundation.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHORS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

=============

The binary distribution of this product bundles binaries of leveldb
(http://code.google.com/p/leveldb/), which is available under the following
license:

Copyright (c) 2011 The LevelDB Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The binary distribution of this product bundles binaries of snappy
(http://code.google.com/p/snappy/), which is available under the following
license:

Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For:
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/
dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/
dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/
jquery.dataTables.min.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/
webapps/static/dt-1.9.4/
```

```
--------------------------------------------------------------------------------
Copyright (C) 2008-2016, SpryMedia Ltd.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

For:
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-
full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-
helpers-1.1.1.min.js
--------------------------------------------------------------------------------

Copyright (c) 2010 Aleksander Williams

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

For:
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
--------------------------------------------------------------------------------

Copyright (c) 2011-2016 Tim Wood, Iskren Chernev, Moment.js contributors

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:
```

```
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For:
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
And the binary distribution of this product bundles these dependencies under
 the
following license:
Mockito 1.8.5
SLF4J 1.7.10
--------------------------------------------------------------------------------

The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

For:
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/
webapps/static/jquery
--------------------------------------------------------------------------------

Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/jquery

The following license applies to all parts of this software except as
documented below:

====
```

```
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

For:
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/
webapps/static/jt/jquery.jstree.js.gz
--------------------------------------------------------------------------------

Copyright (c) 2014 Ivan Bozhanov

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For:
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
--------------------------------------------------------------------------------

D3 is available under a 3-clause BSD license. For details, see:
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3-LICENSE

The binary distribution of this product bundles these dependencies under the
following license:
```

```
HSQLDB Database 2.0.0
--------------------------------------------------------------------------------
"COPYRIGHTS AND LICENSES (based on BSD License)

For work developed by the HSQL Development Group:

Copyright (c) 2001-2016, The HSQL Development Group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of the HSQL Development Group nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS ""AS
 IS""
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL HSQL DEVELOPMENT GROUP, HSQLDB.ORG,
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


For work originally developed by the Hypersonic SQL Group:

Copyright (c) 1995-2000 by the Hypersonic SQL Group.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of the Hypersonic SQL Group nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS ""AS
 IS""
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE HYPERSONIC SQL GROUP,
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
```

```
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of voluntary contributions made by many individuals
 on behalf of the
Hypersonic SQL Group."

The binary distribution of this product bundles these dependencies under the
following license:
servlet-api 2.5
jsp-api 2.1
Streaming API for XML 1.0
--------------------------------------------------------------------------------
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0
1. Definitions.

1.1. Contributor means each individual or entity
that creates or contributes to the creation of
Modifications.

1.2. Contributor Version means the combination of the
Original Software, prior Modifications used by a Contributor (if any), and
 the
Modifications made by that particular Contributor.

1.3. Covered
Software means (a) the Original Software, or (b) Modifications, or (c) the
combination of files containing Original Software with files containing
Modifications, in each case including portions
thereof.

1.4. Executable means the Covered Software in any form other
than Source Code.

1.5. Initial Developer means the individual or entity
that first makes Original Software available under this
License.

1.6. Larger Work means a work which combines Covered Software or
portions thereof with code not governed by the terms of this
License.

1.7. License means this document.

1.8. Licensable means
having the right to grant, to the maximum extent possible, whether at the
 time
of the initial grant or subsequently acquired, any and all of the rights
conveyed herein.

1.9. Modifications means the Source Code and Executable
form of any of the following:
A. Any file that results from an addition to,
deletion from or modification of the contents of a file containing Original
Software or previous Modifications;
B. Any new file that contains any part of the Original Software
or previous Modification; or
C. Any new file that is contributed or otherwise made available
under the terms of this License.

1.10. Original Software means the Source Code and Executable form of
```

```
computer software code that is originally released under this License.

1.11. Patent Claims means any patent claim(s), now owned or
hereafter acquired, including without limitation, method, process, and
 apparatus
claims, in any patent Licensable by grantor.

1.12. Source Code means (a) the common form of computer software code in
 which
modifications are made and (b) associated documentation included in or
with such code.

1.13. You (or Your) means an individual or a legal entity exercising rights
under, and complying with all of the terms of, this License. For legal
 entities,
You includes any entity which controls, is controlled by, or is under common
 control
with You. For purposes of this definition, control means (a) the power,
 direct
or indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (b) ownership of more than fifty percent (50%) of
 the
outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant. Conditioned upon Your compliance
with Section 3.1 below and subject to third party intellectual property
 claims,
the Initial Developer hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than
patent or trademark) Licensable by Initial Developer, to use, reproduce,
 modify,
display, perform, sublicense and distribute the Original Software (or
 portions
thereof), with or without Modifications, and/or as part of a Larger Work;
and

(b) under Patent Claims infringed by the making, using or selling of
Original Software, to make, have made, use, practice, sell, and offer for
 sale,
and/or otherwise dispose of the Original Software (or portions
thereof);

(c) The licenses granted in Sections 2.1(a) and (b) are
effective on the date Initial Developer first distributes or otherwise makes
 the
Original Software available to a third party under the terms of this
License;

(d) Notwithstanding Section 2.1(b) above, no patent license is
granted: (1) for code that You delete from the Original Software, or (2) for
infringements caused by: (i) the modification of the Original Software, or
(ii) the combination of the Original Software with other software or
devices.

2.2. Contributor Grant. Conditioned upon Your compliance with
Section 3.1 below and subject to third party intellectual property claims,
 each
Contributor hereby grants You a world-wide, royalty-free, non-exclusive
license:
```

```
(a) under intellectual property rights (other than patent or
trademark) Licensable by Contributor to use, reproduce, modify, display,
perform, sublicense and distribute the Modifications created by such
 Contributor
(or portions thereof), either on an unmodified basis, with other
 Modifications,
as Covered Software and/or as part of a Larger Work; and

(b) under Patent
Claims infringed by the making, using, or selling of Modifications made by
 that
Contributor either alone and/or in combination with its Contributor Version
 (or
portions of such combination), to make, use, sell, offer for sale, have
 made,
and/or otherwise dispose of: (1) Modifications made by that Contributor (or
portions thereof); and (2) the combination of Modifications made by that
Contributor with its Contributor Version (or portions of such
combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are
effective on the date Contributor first distributes or otherwise makes the
Modifications available to a third party.

(d) Notwithstanding Section 2.2(b)
above, no patent license is granted: (1) for any code that Contributor has
deleted from the Contributor Version; (2) for infringements caused by:
(i) third party modifications of Contributor Version, or (ii) the
 combination
of Modifications made by that Contributor with other software (except as
 part of
the Contributor Version) or other devices; or (3) under Patent Claims
 infringed
by Covered Software in the absence of Modifications made by that
Contributor.

3. Distribution Obligations.

3.1. Availability of Source
Code. Any Covered Software that You distribute or otherwise make available
 in
Executable form must also be made available in Source Code form and that
 Source
Code form must be distributed only under the terms of this License. You must
include a copy of this License with every copy of the Source Code form of
 the
Covered Software You distribute or otherwise make available. You must inform
recipients of any such Covered Software in Executable form as to how they
 can
obtain such Covered Software in Source Code form in a reasonable manner on
 or
through a medium customarily used for software exchange.

3.2.
Modifications. The Modifications that You create or to which You contribute
 are
governed by the terms of this License. You represent that You believe Your
Modifications are Your original creation(s) and/or You have sufficient
 rights to
grant the rights conveyed by this License.

3.3. Required Notices. You must
include a notice in each of Your Modifications that identifies You as the
Contributor of the Modification. You may not remove or alter any copyright,
```

```
patent or trademark notices contained within the Covered Software, or any
notices of licensing or any descriptive text giving attribution to any
Contributor or the Initial Developer.

3.4. Application of Additional Terms.
You may not offer or impose any terms on any Covered Software in Source Code
form that alters or restricts the applicable version of this License or the
recipients rights hereunder. You may choose to offer, and to charge a fee
 for,
warranty, support, indemnity or liability obligations to one or more
 recipients
of Covered Software. However, you may do so only on Your own behalf, and not
 on
behalf of the Initial Developer or any Contributor. You must make it
 absolutely
clear that any such warranty, support, indemnity or liability obligation is
offered by You alone, and You hereby agree to indemnify the Initial
 Developer
and every Contributor for any liability incurred by the Initial Developer or
such Contributor as a result of warranty, support, indemnity or liability
 terms
You offer.

3.5. Distribution of Executable Versions. You may distribute the
Executable form of the Covered Software under the terms of this License or
 under
the terms of a license of Your choice, which may contain terms different
 from
this License, provided that You are in compliance with the terms of this
 License
and that the license for the Executable form does not attempt to limit or
 alter
the recipients rights in the Source Code form from the rights set forth in
 this
License. If You distribute the Covered Software in Executable form under a
different license, You must make it absolutely clear that any terms which
 differ
from this License are offered by You alone, not by the Initial Developer or
Contributor. You hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial Developer or such
Contributor as a result of any such terms You offer.

3.6. Larger Works. You
may create a Larger Work by combining Covered Software with other code not
governed by the terms of this License and distribute the Larger Work as a
 single
product. In such a case, You must make sure the requirements of this License
 are
fulfilled for the Covered Software.

4. Versions of the License.

4.1.
New Versions. Sun Microsystems, Inc. is the initial license steward and may
publish revised and/or new versions of this License from time to time. Each
version will be given a distinguishing version number. Except as provided in
Section 4.3, no one other than the license steward has the right to modify
 this
License.

4.2. Effect of New Versions. You may always continue to use,
distribute or otherwise make the Covered Software available under the terms
 of
the version of the License under which You originally received the Covered
```

```
Software. If the Initial Developer includes a notice in the Original
 Software
prohibiting it from being distributed or otherwise made available under any
subsequent version of the License, You must distribute and make the Covered
Software available under the terms of the version of the License under which
 You
originally received the Covered Software. Otherwise, You may also choose to
 use,
distribute or otherwise make the Covered Software available under the terms
 of
any subsequent version of the License published by the license
steward.

4.3. Modified Versions. When You are an Initial Developer and You
want to create a new license for Your Original Software, You may create and
 use
a modified version of this License if You: (a) rename the license and remove
any references to the name of the license steward (except to note that the
license differs from this License); and (b) otherwise make it clear that the
license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS,
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
 WITHOUT
LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS,
MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE
 RISK AS
TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD
 ANY
COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL
 DEVELOPER
OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR
 OR
CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF
 THIS
LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER
THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights
granted hereunder will terminate automatically if You fail to comply with
 terms
herein and fail to cure such breach within 30 days of becoming aware of the
breach. Provisions which, by their nature, must remain in effect beyond the
termination of this License shall survive.

6.2. If You assert a patent
infringement claim (excluding declaratory judgment actions) against Initial
Developer or a Contributor (the Initial Developer or Contributor against
 whom
You assert such claim is referred to as Participant) alleging that the
Participant Software (meaning the Contributor Version where the Participant
 is a
Contributor or the Original Software where the Participant is the Initial
Developer) directly or indirectly infringes any patent, then any and all
 rights
granted directly or indirectly to You by such Participant, the Initial
 Developer
(if the Initial Developer is not the Participant) and all Contributors under
Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from
```

```
Participant terminate prospectively and automatically at the expiration of
 such
60 day notice period, unless if within such 60 day period You withdraw Your
claim with respect to the Participant Software against such Participant
 either
unilaterally or pursuant to a written agreement with Participant.

6.3. In
the event of termination under Sections 6.1 or 6.2 above, all end user
 licenses
that have been validly granted by You or any distributor hereunder prior to
termination (excluding licenses granted to You by any distributor) shall
 survive
termination.

7. LIMITATION OF LIABILITY.
UNDER NO CIRCUMSTANCES AND UNDER
NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR
 OTHERWISE,
SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR
 OF
COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY
PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF
 ANY
CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF
GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL
 OTHER
COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF
 THE
POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO
LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTYS NEGLIGENCE
 TO
THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO
 NOT
ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO
THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a commercial item, as that term is defined in
48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as
that term is defined at 48 C.F.R.  252.227-7014(a)(1)) and commercial
 computer
software documentation as such terms are used in 48 C.F.R. 12.212 (Sept.
1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through
227.7202-4 (June 1995), all U.S. Government End Users acquire Covered
 Software
with only those rights set forth herein. This U.S. Government Rights clause
 is
in lieu of, and supersedes, any other FAR, DFAR, or other clause or
 provision
that addresses Government rights in computer software under this
License.

9. MISCELLANEOUS.
This License represents the complete agreement
concerning subject matter hereof. If any provision of this License is held
 to be
unenforceable, such provision shall be reformed only to the extent necessary
 to
make it enforceable. This License shall be governed by the law of the
jurisdiction specified in a notice contained within the Original Software
(except to the extent applicable law, if any, provides otherwise), excluding
```

```
such jurisdictions conflict-of-law provisions. Any litigation relating to
 this
License shall be subject to the jurisdiction of the courts located in the
jurisdiction and venue specified in a notice contained within the Original
Software, with the losing party responsible for costs, including, without
limitation, court costs and reasonable attorneys fees and expenses. The
application of the United Nations Convention on Contracts for the
 International
Sale of Goods is expressly excluded. Any law or regulation which provides
 that
the language of a contract shall be construed against the drafter shall not
apply to this License. You agree that You alone are responsible for
 compliance
with the United States export administration regulations (and the export
 control
laws and regulation of any other countries) when You use, distribute or
otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.
As between Initial Developer and the Contributors, each party is
responsible for claims and damages arising, directly or indirectly, out of
 its
utilization of rights under this License and You agree to work with Initial
Developer and Contributors to distribute such responsibility on an equitable
basis. Nothing herein is intended or shall be deemed to constitute any
 admission
of liability.

The binary distribution of this product bundles these dependencies under the
following license:
Jersey 1.9
JAXB API bundle for GlassFish V3 2.2.2
JAXB RI 2.2.3
--------------------------------------------------------------------------------
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

1. Definitions.

1.1. “Contributor” means each individual or entity that creates or
contributes to the creation of Modifications.
1.2. “Contributor Version” means the combination of the Original Software,
prior Modifications used by a Contributor (if any), and the Modifications
 made
by that particular Contributor.
1.3. “Covered Software” means (a) the Original Software, or (b)
Modifications, or (c) the combination of files containing Original Software
 with
files containing Modifications, in each case including portions thereof.
1.4. “Executable” means the Covered Software in any form other than Source
Code.
1.5. “Initial Developer” means the individual or entity that first makes
Original Software available under this License.
1.6. “Larger Work” means a work which combines Covered Software or portions
thereof with code not governed by the terms of this License.
1.7. “License” means this document.
1.8. “Licensable” means having the right to grant, to the maximum extent
possible, whether at the time of the initial grant or subsequently acquired,
 any
and all of the rights conveyed herein.
1.9. “Modifications” means the Source Code and Executable form of any of the
following:
A. Any file that results from an addition to, deletion from or modification
 of
```

```
the contents of a file containing Original Software or previous
 Modifications;
B. Any new file that contains any part of the Original Software or previous
Modification; or
C. Any new file that is contributed or otherwise made available under the
 terms
of this License.
1.10. “Original Software” means the Source Code and Executable form of
computer software code that is originally released under this License.
1.11. “Patent Claims” means any patent claim(s), now owned or hereafter
acquired, including without limitation, method, process, and apparatus
 claims,
in any patent Licensable by grantor.
1.12. “Source Code” means (a) the common form of computer software code in
which modifications are made and (b) associated documentation included in or
with such code.
1.13. “You” (or “Your”) means an individual or a legal entity exercising
rights under, and complying with all of the terms of, this License. For
 legal
entities, “You” includes any entity which controls, is controlled by, or is
under common control with You. For purposes of this definition, “control”
means (a) the power, direct or indirect, to cause the direction or
 management of
such entity, whether by contract or otherwise, or (b) ownership of more than
fifty percent (50%) of the outstanding shares or beneficial ownership of
 such
entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to
third party intellectual property claims, the Initial Developer hereby
 grants
You a world-wide, royalty-free, non-exclusive license:
(a) under intellectual
property rights (other than patent or trademark) Licensable by Initial
Developer, to use, reproduce, modify, display, perform, sublicense and
distribute the Original Software (or portions thereof), with or without
Modifications, and/or as part of a Larger Work; and
(b) under Patent Claims
infringed by the making, using or selling of Original Software, to make,
 have
made, use, practice, sell, and offer for sale, and/or otherwise dispose of
 the
Original Software (or portions thereof).
(c) The licenses granted in Sections
2.1(a) and (b) are effective on the date Initial Developer first distributes
 or
otherwise makes the Original Software available to a third party under the
 terms
of this License.
(d) Notwithstanding Section 2.1(b) above, no patent license is
granted: (1) for code that You delete from the Original Software, or (2) for
infringements caused by: (i) the modification of the Original Software, or
 (ii)
the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and
subject to third party intellectual property claims, each Contributor hereby
grants You a world-wide, royalty-free, non-exclusive license:
```

```
(a) under
intellectual property rights (other than patent or trademark) Licensable by
Contributor to use, reproduce, modify, display, perform, sublicense and
distribute the Modifications created by such Contributor (or portions
 thereof),
either on an unmodified basis, with other Modifications, as Covered Software
and/or as part of a Larger Work; and
(b) under Patent Claims infringed by the
making, using, or selling of Modifications made by that Contributor either
 alone
and/or in combination with its Contributor Version (or portions of such
combination), to make, use, sell, offer for sale, have made, and/or
 otherwise
dispose of: (1) Modifications made by that Contributor (or portions
 thereof);
and (2) the combination of Modifications made by that Contributor with its
Contributor Version (or portions of such combination).
(c) The licenses granted
in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first
distributes or otherwise makes the Modifications available to a third
party.
(d) Notwithstanding Section 2.2(b) above, no patent license is granted:
(1) for any code that Contributor has deleted from the Contributor Version;
 (2)
for infringements caused by: (i) third party modifications of Contributor
Version, or (ii) the combination of Modifications made by that Contributor
 with
other software (except as part of the Contributor Version) or other devices;
 or
(3) under Patent Claims infringed by Covered Software in the absence of
Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.
Any Covered Software that You distribute or
otherwise make available in Executable form must also be made available in
Source Code form and that Source Code form must be distributed only under
 the
terms of this License. You must include a copy of this License with every
 copy
of the Source Code form of the Covered Software You distribute or otherwise
 make
available. You must inform recipients of any such Covered Software in
 Executable
form as to how they can obtain such Covered Software in Source Code form in
 a
reasonable manner on or through a medium customarily used for software
exchange.
3.2. Modifications.
The Modifications that You create or to which
You contribute are governed by the terms of this License. You represent that
 You
believe Your Modifications are Your original creation(s) and/or You have
sufficient rights to grant the rights conveyed by this License.
3.3. Required Notices.
You must include a notice in each of Your Modifications that
identifies You as the Contributor of the Modification. You may not remove or
alter any copyright, patent or trademark notices contained within the
 Covered
Software, or any notices of licensing or any descriptive text giving
 attribution
to any Contributor or the Initial Developer.
3.4. Application of Additional Terms.
```

```
You may not offer or impose any terms on any Covered Software in Source
Code form that alters or restricts the applicable version of this License or
 the
recipients' rights hereunder. You may choose to offer, and to charge a fee
 for,
warranty, support, indemnity or liability obligations to one or more
 recipients
of Covered Software. However, you may do so only on Your own behalf, and not
 on
behalf of the Initial Developer or any Contributor. You must make it
 absolutely
clear that any such warranty, support, indemnity or liability obligation is
offered by You alone, and You hereby agree to indemnify the Initial
 Developer
and every Contributor for any liability incurred by the Initial Developer or
such Contributor as a result of warranty, support, indemnity or liability
 terms
You offer.
3.5. Distribution of Executable Versions.
You may distribute the
Executable form of the Covered Software under the terms of this License or
 under
the terms of a license of Your choice, which may contain terms different
 from
this License, provided that You are in compliance with the terms of this
 License
and that the license for the Executable form does not attempt to limit or
 alter
the recipient's rights in the Source Code form from the rights set forth in
this License. If You distribute the Covered Software in Executable form
 under a
different license, You must make it absolutely clear that any terms which
 differ
from this License are offered by You alone, not by the Initial Developer or
Contributor. You hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial Developer or such
Contributor as a result of any such terms You offer.
3.6. Larger Works.
You
may create a Larger Work by combining Covered Software with other code not
governed by the terms of this License and distribute the Larger Work as a
 single
product. In such a case, You must make sure the requirements of this License
 are
fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.
Oracle is the initial license steward and may publish revised and/or
new versions of this License from time to time. Each version will be given a
distinguishing version number. Except as provided in Section 4.3, no one
 other
than the license steward has the right to modify this License.
4.2. Effect of New Versions.
You may always continue to use, distribute or otherwise make the
Covered Software available under the terms of the version of the License
 under
which You originally received the Covered Software. If the Initial Developer
includes a notice in the Original Software prohibiting it from being
 distributed
or otherwise made available under any subsequent version of the License, You
must distribute and make the Covered Software available under the terms of
 the
```

```
version of the License under which You originally received the Covered
 Software.
Otherwise, You may also choose to use, distribute or otherwise make the
 Covered
Software available under the terms of any subsequent version of the License
published by the license steward.
4.3. Modified Versions.
When You are an
Initial Developer and You want to create a new license for Your Original
Software, You may create and use a modified version of this License if You:
 (a)
rename the license and remove any references to the name of the license
 steward
(except to note that the license differs from this License); and (b)
 otherwise
make it clear that the license contains terms which differ from this
License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS
LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED
 SOFTWARE
IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
 COVERED
SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY
RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE
COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF
WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY
 COVERED
SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will
terminate automatically if You fail to comply with terms herein and fail to
 cure
such breach within 30 days of becoming aware of the breach. Provisions
 which, by
their nature, must remain in effect beyond the termination of this License
 shall
survive.
6.2. If You assert a patent infringement claim (excluding declaratory
judgment actions) against Initial Developer or a Contributor (the Initial
Developer or Contributor against whom You assert such claim is referred to
 as
"Participant") alleging that the Participant Software (meaning the
Contributor Version where the Participant is a Contributor or the Original
Software where the Participant is the Initial Developer) directly or
 indirectly
infringes any patent, then any and all rights granted directly or indirectly
 to
You by such Participant, the Initial Developer (if the Initial Developer is
 not
the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this
License shall, upon 60 days notice from Participant terminate prospectively
 and
automatically at the expiration of such 60 day notice period, unless if
 within
such 60 day period You withdraw Your claim with respect to the Participant
Software against such Participant either unilaterally or pursuant to a
 written
```

```
agreement with Participant.
6.3. If You assert a patent infringement claim
against Participant alleging that the Participant Software directly or
indirectly infringes any patent where such claim is resolved (such as by
 license
or settlement) prior to the initiation of patent infringement litigation,
 then
the reasonable value of the licenses granted by such Participant under
 Sections
2.1 or 2.2 shall be taken into account in determining the amount or value of
 any
payment or license.
6.4. In the event of termination under Sections 6.1 or 6.2
above, all end user licenses that have been validly granted by You or any
distributor hereunder prior to termination (excluding licenses granted to
 You by
any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
(INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL
DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR
 ANY
SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT,
SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING,
WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES,
 EVEN
IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES.
 THIS
LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL
INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW
PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND
LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered
Software is a “commercial item,” as that term is defined in 48 C.F.R. 2.101
(Oct. 1995), consisting of “commercial computer software” (as that term is
defined at 48 C.F.R. § 252.227-7014(a)(1)) and “commercial computer software
documentation” as such terms are used in 48 C.F.R. 12.212 (Sept. 1995).
Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
(June 1995), all U.S. Government End Users acquire Covered Software with
 only
those rights set forth herein. This U.S. Government Rights clause is in lieu
 of,
and supersedes, any other FAR, DFAR, or other clause or provision that
 addresses
Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning
subject matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent necessary
 to
make it enforceable. This License shall be governed by the law of the
jurisdiction specified in a notice contained within the Original Software
(except to the extent applicable law, if any, provides otherwise), excluding
such jurisdiction's conflict-of-law provisions. Any litigation relating to
 this
```

```
License shall be subject to the jurisdiction of the courts located in the
jurisdiction and venue specified in a notice contained within the Original
Software, with the losing party responsible for costs, including, without
limitation, court costs and reasonable attorneys' fees and expenses. The
application of the United Nations Convention on Contracts for the
 International
Sale of Goods is expressly excluded. Any law or regulation which provides
 that
the language of a contract shall be construed against the drafter shall not
apply to this License. You agree that You alone are responsible for
 compliance
with the United States export administration regulations (and the export
 control
laws and regulation of any other countries) when You use, distribute or
otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is
responsible for claims and damages arising, directly or indirectly, out of
 its
utilization of rights under this License and You agree to work with Initial
Developer and Contributors to distribute such responsibility on an equitable
basis. Nothing herein is intended or shall be deemed to constitute any
 admission
of liability.

The binary distribution of this product bundles these dependencies under the
following license:
Protocol Buffer Java API 2.5.0
--------------------------------------------------------------------------------
This license applies to all parts of Protocol Buffers except the following:

  - Atomicops support for generic gcc, located in
    src/google/protobuf/stubs/atomicops_internals_generic_gcc.h.
    This file is copyrighted by Red Hat Inc.

  - Atomicops support for AIX/POWER, located in
    src/google/protobuf/stubs/atomicops_internals_power.h.
    This file is copyrighted by Bloomberg Finance LP.

Copyright 2014, Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

For:
XML Commons External Components XML APIs 1.3.04
--------------------------------------------------------------------------------
By obtaining, using and/or copying this work, you (the licensee) agree that
 you
have read, understood, and will comply with the following terms and
 conditions.

Permission to copy, modify, and distribute this software and its
 documentation,
with or without modification, for any purpose and without fee or royalty is
hereby granted, provided that you include the following on ALL copies of the
software and documentation or portions thereof, including modifications:
- The full text of this NOTICE in a location viewable to users of the
redistributed or derivative work.
- Any pre-existing intellectual property disclaimers, notices, or terms and
conditions. If none exist, the W3C Software Short Notice should be included
(hypertext is preferred, text is permitted) within the body of any
 redistributed
or derivative code.
- Notice of any changes or modifications to the files, including the date
 changes
were made. (We recommend you provide URIs to the location from which the
 code is
derived.)

The binary distribution of this product bundles these dependencies under the
following license:
JUnit 4.11
ecj-4.3.1.jar
--------------------------------------------------------------------------------
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates' from
 a
Contributor if it was added to the Program by such Contributor itself or
 anyone
acting on such Contributor's behalf. Contributions do not include additions
 to
```

```
the Program which: (i) are separate modules of software distributed in
conjunction with the Program under their own license agreement, and (ii) are
 not
derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free copyright license to
reproduce, prepare derivative works of, publicly display, publicly perform,
distribute and sublicense the Contribution of such Contributor, if any, and
 such
derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed
Patents to make, use, sell, offer to sell, import and otherwise transfer the
Contribution of such Contributor, if any, in source code and object code
 form.
This patent license shall apply to the combination of the Contribution and
 the
Program if, at the time the Contribution is added by the Contributor, such
addition of the Contribution causes such combination to be covered by the
Licensed Patents. The patent license shall not apply to any other
 combinations
which include the Contribution. No hardware per se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to
its Contributions set forth herein, no assurances are provided by any
Contributor that the Program does not infringe the patent or other
 intellectual
property rights of any other entity. Each Contributor disclaims any
 liability to
Recipient for claims brought by any other entity based on infringement of
intellectual property rights or otherwise. As a condition to exercising the
rights and licenses granted hereunder, each Recipient hereby assumes sole
responsibility to secure any other intellectual property rights needed, if
 any.
For example, if a third party patent license is required to allow Recipient
 to
distribute the Program, it is Recipient's responsibility to acquire that
 license
before distributing the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright
rights in its Contribution, if any, to grant the copyright license set forth
 in
this Agreement.
3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its
own license agreement, provided that:
```

```
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties and
conditions, express and implied, including warranties or conditions of title
 and
non-infringement, and implied warranties or conditions of merchantability
 and
fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
damages, including direct, indirect, special, incidental and consequential
damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by
that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor,
and informs licensees how to obtain it in a reasonable manner on or through
 a
medium customarily used for software exchange.
When the Program is made available in source code form:

a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the
Program.

Each Contributor must identify itself as the originator of its Contribution,
 if
any, in a manner that reasonably allows subsequent Recipients to identify
 the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
 who
includes the Program in a commercial product offering should do so in a
 manner
which does not create potential liability for other Contributors. Therefore,
 if
a Contributor includes the Program in a commercial product offering, such
Contributor ("Commercial Contributor") hereby agrees to defend and indemnify
every other Contributor ("Indemnified Contributor") against any losses,
 damages
and costs (collectively "Losses") arising from claims, lawsuits and other
 legal
actions brought by a third party against the Indemnified Contributor to the
extent caused by the acts or omissions of such Commercial Contributor in
connection with its distribution of the Program in a commercial product
offering. The obligations in this section do not apply to any claims or
 Losses
relating to any actual or alleged intellectual property infringement. In
 order
to qualify, an Indemnified Contributor must: a) promptly notify the
 Commercial
Contributor in writing of such claim, and b) allow the Commercial
 Contributor to
control, and cooperate with the Commercial Contributor in, the defense and
 any
```

```
related settlement negotiations. The Indemnified Contributor may participate
 in
any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If
 that
Commercial Contributor then makes performance claims, or offers warranties
related to Product X, those performance claims and warranties are such
Commercial Contributor's responsibility alone. Under this section, the
Commercial Contributor would have to defend claims against the other
Contributors related to those performance claims and warranties, and if a
 court
requires any other Contributor to pay any damages as a result, the
 Commercial
Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS
 OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
 TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using
 and
distributing the Program and assumes all risks associated with its exercise
 of
rights under this Agreement , including but not limited to the risks and
 costs
of program errors, compliance with applicable laws, damage to or loss of
 data,
programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION
 LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable
law, it shall not affect the validity or enforceability of the remainder of
 the
terms of this Agreement, and without further action by the parties hereto,
 such
provision shall be reformed to the minimum extent necessary to make such
provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program itself
(excluding combinations of the Program with other software or hardware)
```

```
infringes such Recipient's patent(s), then such Recipient's rights granted
 under
Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
 does
not cure such failure in a reasonable period of time after becoming aware of
such noncompliance. If all Recipient's rights under this Agreement
 terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient's obligations under this
 Agreement
and any licenses granted by Recipient relating to the Program shall continue
 and
survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right
 to
publish new versions (including revisions) of this Agreement from time to
 time.
No one other than the Agreement Steward has the right to modify this
 Agreement.
The Eclipse Foundation is the initial Agreement Steward. The Eclipse
 Foundation
may assign the responsibility to serve as the Agreement Steward to a
 suitable
separate entity. Each new version of the Agreement will be given a
distinguishing version number. The Program (including Contributions) may
 always
be distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to distribute the Program (including its
 Contributions)
under the new version. Except as expressly stated in Sections 2(a) and 2(b)
above, Recipient receives no rights or licenses to the intellectual property
 of
any Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted under
this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury
 trial in
any resulting litigation.

The binary distribution of this product bundles these dependencies under the
following license:
ASM Core 3.2
JSch 0.1.51
ParaNamer Core 2.3
JLine 0.9.94
leveldbjni-all 1.8
Hamcrest Core 1.3
xmlenc Library 0.52
--------------------------------------------------------------------------------
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
```

```
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the <organization> nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The binary distribution of this product bundles these dependencies under the
following license:
FindBugs-jsr305 3.0.0
--------------------------------------------------------------------------------
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are
 those
of the authors and should not be interpreted as representing official
 policies,
either expressed or implied, of the FreeBSD Project.

The binary distribution of this product bundles these dependencies under the
following license:
Java Concurrency in Practice book annotations 1.0
--------------------------------------------------------------------------------
THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE
 COMMONS
```

```
PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT
 AND/OR
OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER
 THIS
LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO
 BE
BOUND BY THE TERMS OF THIS LICENSE. THE LICENSOR GRANTS YOU THE RIGHTS
 CONTAINED
HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

1. Definitions

"Collective Work" means a work, such as a periodical issue, anthology or
encyclopedia, in which the Work in its entirety in unmodified form, along
 with a
number of other contributions, constituting separate and independent works
 in
themselves, are assembled into a collective whole. A work that constitutes a
Collective Work will not be considered a Derivative Work (as defined below)
 for
the purposes of this License.
"Derivative Work" means a work based upon the Work or upon the Work and
 other
pre-existing works, such as a translation, musical arrangement,
 dramatization,
fictionalization, motion picture version, sound recording, art reproduction,
abridgment, condensation, or any other form in which the Work may be recast,
transformed, or adapted, except that a work that constitutes a Collective
 Work
will not be considered a Derivative Work for the purpose of this License.
 For
the avoidance of doubt, where the Work is a musical composition or sound
recording, the synchronization of the Work in timed-relation with a moving
 image
("synching") will be considered a Derivative Work for the purpose of this
License.
"Licensor" means the individual or entity that offers the Work under the
 terms
of this License.
"Original Author" means the individual or entity who created the Work.
"Work" means the copyrightable work of authorship offered under the terms of
this License.
"You" means an individual or entity exercising rights under this License who
 has
not previously violated the terms of this License with respect to the Work,
 or
who has received express permission from the Licensor to exercise rights
 under
this License despite a previous violation.
2. Fair Use Rights. Nothing in this license is intended to reduce, limit, or
restrict any rights arising from fair use, first sale or other limitations
 on
the exclusive rights of the copyright owner under copyright law or other
applicable laws.

3. License Grant. Subject to the terms and conditions of this License,
 Licensor
hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for
 the
duration of the applicable copyright) license to exercise the rights in the
 Work
as stated below:
```

```
to reproduce the Work, to incorporate the Work into one or more Collective
Works, and to reproduce the Work as incorporated in the Collective Works;
to create and reproduce Derivative Works;
to distribute copies or phonorecords of, display publicly, perform publicly,
 and
perform publicly by means of a digital audio transmission the Work including
 as
incorporated in Collective Works;
to distribute copies or phonorecords of, display publicly, perform publicly,
 and
perform publicly by means of a digital audio transmission Derivative Works.
For the avoidance of doubt, where the work is a musical composition:

Performance Royalties Under Blanket Licenses. Licensor waives the exclusive
right to collect, whether individually or via a performance rights society
 (e.g.
ASCAP, BMI, SESAC), royalties for the public performance or public digital
performance (e.g. webcast) of the Work.
Mechanical Rights and Statutory Royalties. Licensor waives the exclusive
 right
to collect, whether individually or via a music rights agency or designated
agent (e.g. Harry Fox Agency), royalties for any phonorecord You create from
 the
Work ("cover version") and distribute, subject to the compulsory license
 created
by 17 USC Section 115 of the US Copyright Act (or the equivalent in other
jurisdictions).
Webcasting Rights and Statutory Royalties. For the avoidance of doubt, where
 the
Work is a sound recording, Licensor waives the exclusive right to collect,
whether individually or via a performance-rights society (e.g.
 SoundExchange),
royalties for the public digital performance (e.g. webcast) of the Work,
 subject
to the compulsory license created by 17 USC Section 114 of the US Copyright
 Act
(or the equivalent in other jurisdictions).
The above rights may be exercised in all media and formats whether now known
 or
hereafter devised. The above rights include the right to make such
 modifications
as are technically necessary to exercise the rights in other media and
 formats.
All rights not expressly granted by Licensor are hereby reserved.

4. Restrictions.The license granted in Section 3 above is expressly made
 subject
to and limited by the following restrictions:

You may distribute, publicly display, publicly perform, or publicly
 digitally
perform the Work only under the terms of this License, and You must include
 a
copy of, or the Uniform Resource Identifier for, this License with every
 copy or
phonorecord of the Work You distribute, publicly display, publicly perform,
 or
publicly digitally perform. You may not offer or impose any terms on the
 Work
that alter or restrict the terms of this License or the recipients' exercise
 of
the rights granted hereunder. You may not sublicense the Work. You must keep
intact all notices that refer to this License and to the disclaimer of
```

```
warranties. You may not distribute, publicly display, publicly perform, or
publicly digitally perform the Work with any technological measures that
 control
access or use of the Work in a manner inconsistent with the terms of this
License Agreement. The above applies to the Work as incorporated in a
 Collective
Work, but this does not require the Collective Work apart from the Work
 itself
to be made subject to the terms of this License. If You create a Collective
Work, upon notice from any Licensor You must, to the extent practicable,
 remove
from the Collective Work any credit as required by clause 4(b), as
 requested. If
You create a Derivative Work, upon notice from any Licensor You must, to the
extent practicable, remove from the Derivative Work any credit as required
 by
clause 4(b), as requested.
If you distribute, publicly display, publicly perform, or publicly digitally
perform the Work or any Derivative Works or Collective Works, You must keep
intact all copyright notices for the Work and provide, reasonable to the
 medium
or means You are utilizing: (i) the name of the Original Author (or
 pseudonym,
if applicable) if supplied, and/or (ii) if the Original Author and/or
 Licensor
designate another party or parties (e.g. a sponsor institute, publishing
 entity,
journal) for attribution in Licensor's copyright notice, terms of service or
 by
other reasonable means, the name of such party or parties; the title of the
 Work
if supplied; to the extent reasonably practicable, the Uniform Resource
Identifier, if any, that Licensor specifies to be associated with the Work,
unless such URI does not refer to the copyright notice or licensing
 information
for the Work; and in the case of a Derivative Work, a credit identifying the
 use
of the Work in the Derivative Work (e.g., "French translation of the Work by
Original Author," or "Screenplay based on original Work by Original
 Author").
Such credit may be implemented in any reasonable manner; provided, however,
 that
in the case of a Derivative Work or Collective Work, at a minimum such
 credit
will appear where any other comparable authorship credit appears and in a
 manner
at least as prominent as such other comparable authorship credit.
5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR
 OFFERS
THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND
 CONCERNING
THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT
LIMITATION, WARRANTIES OF TITLE, MERCHANTIBILITY, FITNESS FOR A PARTICULAR
PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS,
 ACCURACY,
OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME
JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH
EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW,
 IN
NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL,
```

```
INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS
LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. Termination

This License and the rights granted hereunder will terminate automatically
 upon
any breach by You of the terms of this License. Individuals or entities who
 have
received Derivative Works or Collective Works from You under this License,
however, will not have their licenses terminated provided such individuals
 or
entities remain in full compliance with those licenses. Sections 1, 2, 5, 6,
 7,
and 8 will survive any termination of this License.
Subject to the above terms and conditions, the license granted here is
 perpetual
(for the duration of the applicable copyright in the Work). Notwithstanding
 the
above, Licensor reserves the right to release the Work under different
 license
terms or to stop distributing the Work at any time; provided, however that
 any
such election will not serve to withdraw this License (or any other license
 that
has been, or is required to be, granted under the terms of this License),
 and
this License will continue in full force and effect unless terminated as
 stated
above.
8. Miscellaneous

Each time You distribute or publicly digitally perform the Work or a
 Collective
Work, the Licensor offers to the recipient a license to the Work on the same
terms and conditions as the license granted to You under this License.
Each time You distribute or publicly digitally perform a Derivative Work,
Licensor offers to the recipient a license to the original Work on the same
terms and conditions as the license granted to You under this License.
If any provision of this License is invalid or unenforceable under
 applicable
law, it shall not affect the validity or enforceability of the remainder of
 the
terms of this License, and without further action by the parties to this
agreement, such provision shall be reformed to the minimum extent necessary
 to
make such provision valid and enforceable.
No term or provision of this License shall be deemed waived and no breach
consented to unless such waiver or consent shall be in writing and signed by
 the
party to be charged with such waiver or consent.
This License constitutes the entire agreement between the parties with
 respect
to the Work licensed here. There are no understandings, agreements or
representations with respect to the Work not specified here. Licensor shall
 not
be bound by any additional provisions that may appear in any communication
 from
You. This License may not be modified without the mutual written agreement
 of
the Licensor and You.
```

Provider: Apache / Component(s): HttpComponents HttpClient 4.5.6

```
Apache httpclient 4.5.6
COPYRIGHT: Copyright 1999-2018 The Apache Software Foundation

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

==============================================
4P Dependencies:


commons-codec » commons-codec 1.10
COPYRIGHT: Copyright 2002-2014 The Apache Software Foundation
```

```
LICENSE: Apache 2.0 https://github.com/apache/commons-codec/blob/1.10/
LICENSE.txt

---
commons-logging » commons-logging 1.2
COPYRIGHT: Copyright 2003-2014 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/
LOGGING_1_2/LICENSE.txt


---
org.apache.httpcomponents » httpcore 4.4.10
COPYRIGHT: Copyright 2005-2018 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-core/
blob/4.4.10/LICENSE.txt

==============================================

Updated 4P Dependency:

commons-codec » commons-codec 1.11
COPYRIGHT: Copyright 2002-2014 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/commons-codec/blob/commons-
codec-1.11/LICENSE.txt
```

Provider: Apache / Component(s): HttpComponents HttpClient 4.5.9

```
NOTICE FILE:
Apache HttpComponents Client
Copyright 1999-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

LICENSE: Apache 2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

===========================================================================

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

    (a) that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or

    (b) that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the
        terms of a Secondary License.
```

```
1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
```

```
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form
```

```
All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
```

```
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
```

```
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
```

```
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.



*******************************
Modules:
*******************************
httpclient
httpmime
fluent-hc
httpclient-cache
httpclient-win
httpclient-osgi


*******************************
4P Dependencies:
*******************************

commons-codec » commons-codec 1.11, commons-codec-1.12.jar
LICENSE: Apache 2.0 https://github.com/apache/commons-codec/blob/commons-
codec-1.11/LICENSE.txt
NOTICE FILE:
Apache Commons Codec
Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

LICENSE: Verbatim copying and distribution of this entire article is
 permitted in any medium, provided this notice is preserved.
==============================================================================

The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
```

```
License: GNU GPL v3.0

                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
```

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that

```
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
```

```
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
```

```
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
```

```
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
```

```
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.
```

```
  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
```

```
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
```

```
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

---
commons-logging » commons-logging 1.2
LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/
LOGGING_1_2/LICENSE.txt
NOTICE FILE:
Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


---
org.apache.httpcomponents » httpcore 4.4.11
LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-core/
blob/4.4.11/LICENSE.txt
```

```
NOTICE FILE:
Apache HttpComponents Core
Copyright 2005-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

Provider: Apache / Component(s): HttpCore 4.4.11

```
Apache HttpComponents Core 4.4.10
COPYRIGHT: Copyright 2005-2018 The Apache Software Foundation
LICENSE: Apache 2.0
                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
============================
4P Test Dependencies (No Compile Dependencies):

There are four 4th party dependencies, all of them are for testing only.

1) Commons-logging version 1.2 (Apache 2.0)
-------------------------------------------------------
<!--
 Licensed to the Apache Software Foundation (ASF) under one or more
 contributor license agreements.  See the NOTICE file distributed with
 this work for additional information regarding copyright ownership.
 The ASF licenses this file to You under the Apache License, Version 2.0
 (the "License"); you may not use this file except in compliance with
 the License.  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
-->
-------------------------------------------------------------------------------------------

2) junit version 5.2.0 (EPL 2.0)
-------------------------------------------------------------------------------------------
/*
 * Copyright 2015-2018 the original author or authors.
 *
 * All rights reserved. This program and the accompanying materials are
 * made available under the terms of the Eclipse Public License v2.0 which
 * accompanies this distribution and is available at
 *
 * http://www.eclipse.org/legal/epl-v20.html
 */
-------------------------------------------------------------------------------------------
3) commons-lang3 version 3.8 (Apache 2.0)
-------------------------------------------------------------------------------------------
/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements.  See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License.  You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
-------------------------------------------------------------------------------------------
4) mockito-core version 2.21.0 (MIT)
-------------------------------------------------------------------------------------------
/*
 * Copyright (c) 2007 Mockito contributors
 * This program is made available under the terms of the MIT License.
 */
```

```
--------------------------------------------------------------------------------
```

Provider: Apache / Component(s): httpd 2.4.6-80

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
```

```
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



APACHE HTTP SERVER SUBCOMPONENTS:

The Apache HTTP Server includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

For the mod_mime_magic component:

/*
 * mod_mime_magic: MIME type lookup via file magic numbers
 * Copyright (c) 1996-1997 Cisco Systems, Inc.
 *
 * This software was submitted by Cisco Systems to the Apache Group in July
 * 1997.  Future revisions and derivatives of this source code must
 * acknowledge Cisco Systems as the original contributor of this module.
 * All other licensing and usage conditions are those of the Apache Group.
 *
 * Some of this code is derived from the free version of the file command
 * originally posted to comp.sources.unix.  Copyright info for that program
 * is included below as required.
 *
 ---------------------------------------------------------------------------
 * - Copyright (c) Ian F. Darwin, 1987. Written by Ian F. Darwin.
 *
 * This software is not subject to any license of the American Telephone and
 * Telegraph Company or of the Regents of the University of California.
 *
 * Permission is granted to anyone to use this software for any purpose on
 any
 * computer system, and to alter it and redistribute it freely, subject to
 * the following restrictions:
 *
 * 1. The author is not responsible for the consequences of use of this
 * software, no matter how awful, even if they arise from flaws in it.
 *
 * 2. The origin of this software must not be misrepresented, either by
 * explicit claim or by omission.  Since few users ever read sources,
 credits
 * must appear in the documentation.
 *
 * 3. Altered versions must be plainly marked as such, and must not be
 * misrepresented as being the original software.  Since few users ever read
 * sources, credits must appear in the documentation.
```

```
 *
 * 4. This notice may not be removed or altered.
 * -------------------------------------------------------------------------
 *
 */


For the  modules\mappers\mod_imagemap.c component:

  "macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

For the  server\util_md5.c component:

/**********************************************************************
 * NCSA HTTPd Server
 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
 * Copyright  (C)  1995, Board of Trustees of the University of Illinois
 *
 **********************************************************************
 *
 * md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
 *
 *  Original Code Copyright (C) 1994, Jeff Hostetler, Spyglass, Inc.
 *  Portions of Content-MD5 code Copyright (C) 1993, 1994 by Carnegie Mellon
 *     University (see Copyright below).
 *  Portions of Content-MD5 code Copyright (C) 1991 Bell Communications
 *     Research, Inc. (Bellcore) (see Copyright below).
 *  Portions extracted from mpack, John G. Myers - jgm+@cmu.edu
 *  Content-MD5 Code contributed by Martin Hamilton (martin@net.lut.ac.uk)
 *
 */


/* these portions extracted from mpack, John G. Myers - jgm+@cmu.edu */
/* (C) Copyright 1993,1994 by Carnegie Mellon University
 * All Rights Reserved.
 *
 * Permission to use, copy, modify, distribute, and sell this software
 * and its documentation for any purpose is hereby granted without
 * fee, provided that the above copyright notice appear in all copies
 * and that both that copyright notice and this permission notice
 * appear in supporting documentation, and that the name of Carnegie
 * Mellon University not be used in advertising or publicity
 * pertaining to distribution of the software without specific,
 * written prior permission.  Carnegie Mellon University makes no
 * representations about the suitability of this software for any
 * purpose.  It is provided "as is" without express or implied
 * warranty.
 *
 * CARNEGIE MELLON UNIVERSITY DISCLAIMS ALL WARRANTIES WITH REGARD TO
 * THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS, IN NO EVENT SHALL CARNEGIE MELLON UNIVERSITY BE LIABLE
 * FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN
 * AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING
 * OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
 * SOFTWARE.
 */
```

```
/*
 * Copyright (c) 1991 Bell Communications Research, Inc. (Bellcore)
 *
 * Permission to use, copy, modify, and distribute this material
 * for any purpose and without fee is hereby granted, provided
 * that the above copyright notice and this permission notice
 * appear in all copies, and that the name of Bellcore not be
 * used in advertising or publicity pertaining to this
 * material without the specific, prior written permission
 * of an authorized representative of Bellcore.  BELLCORE
 * MAKES NO REPRESENTATIONS ABOUT THE ACCURACY OR SUITABILITY
 * OF THIS MATERIAL FOR ANY PURPOSE.  IT IS PROVIDED "AS IS",
 * WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES.
 */


For the util_pcre.c and ap_regex.h components:

           Copyright (c) 1997-2004 University of Cambridge

-----------------------------------------------------------------------------
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

    * Neither the name of the University of Cambridge nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
-----------------------------------------------------------------------------


For the  srclib\apr\include\apr_md5.h component:
/*
 * This is work is derived from material Copyright RSA Data Security, Inc.
 *
 * The RSA copyright statement and Licence for that original material is
 * included below. This is followed by the Apache copyright statement and
 * licence for the modifications made to that material.
 */

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
   rights reserved.

   License to copy and use this software is granted provided that it
   is identified as the "RSA Data Security, Inc. MD5 Message-Digest
   Algorithm" in all material mentioning or referencing this software
```

```
   or this function.

   License is also granted to make and use derivative works provided
   that such works are identified as "derived from the RSA Data
   Security, Inc. MD5 Message-Digest Algorithm" in all material
   mentioning or referencing the derived work.

   RSA Data Security, Inc. makes no representations concerning either
   the merchantability of this software or the suitability of this
   software for any particular purpose. It is provided "as is"
   without express or implied warranty of any kind.

   These notices must be retained in any copies of any part of this
   documentation and/or software.
 */

For the  srclib\apr\passwd\apr_md5.c component:

/*
 * This is work is derived from material Copyright RSA Data Security, Inc.
 *
 * The RSA copyright statement and Licence for that original material is
 * included below. This is followed by the Apache copyright statement and
 * licence for the modifications made to that material.
 */

/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm
 */

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
   rights reserved.

   License to copy and use this software is granted provided that it
   is identified as the "RSA Data Security, Inc. MD5 Message-Digest
   Algorithm" in all material mentioning or referencing this software
   or this function.

   License is also granted to make and use derivative works provided
   that such works are identified as "derived from the RSA Data
   Security, Inc. MD5 Message-Digest Algorithm" in all material
   mentioning or referencing the derived work.

   RSA Data Security, Inc. makes no representations concerning either
   the merchantability of this software or the suitability of this
   software for any particular purpose. It is provided "as is"
   without express or implied warranty of any kind.

   These notices must be retained in any copies of any part of this
   documentation and/or software.
 */
/*
 * The apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
 * MD5 crypt() function, which is licenced as follows:
 *
 ----------------------------------------------------------------------------
 * "THE BEER-WARE LICENSE" (Revision 42):
 * <phk@login.dknet.dk> wrote this file.  As long as you retain this notice
 you
 * can do whatever you want with this stuff. If we meet some day, and you
 think
 * this stuff is worth it, you can buy me a beer in return.  Poul-Henning
 Kamp
 *
 ----------------------------------------------------------------------------
```

```
 */

For the srclib\apr-util\crypto\apr_md4.c component:

 * This is derived from material copyright RSA Data Security, Inc.
 * Their notice is reproduced below in its entirety.
 *
 * Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
 * rights reserved.
 *
 * License to copy and use this software is granted provided that it
 * is identified as the "RSA Data Security, Inc. MD4 Message-Digest
 * Algorithm" in all material mentioning or referencing this software
 * or this function.
 *
 * License is also granted to make and use derivative works provided
 * that such works are identified as "derived from the RSA Data
 * Security, Inc. MD4 Message-Digest Algorithm" in all material
 * mentioning or referencing the derived work.
 *
 * RSA Data Security, Inc. makes no representations concerning either
 * the merchantability of this software or the suitability of this
 * software for any particular purpose. It is provided "as is"
 * without express or implied warranty of any kind.
 *
 * These notices must be retained in any copies of any part of this
 * documentation and/or software.
 */

For the srclib\apr-util\include\apr_md4.h component:

 *
 * This is derived from material copyright RSA Data Security, Inc.
 * Their notice is reproduced below in its entirety.
 *
 * Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
 * rights reserved.
 *
 * License to copy and use this software is granted provided that it
 * is identified as the "RSA Data Security, Inc. MD4 Message-Digest
 * Algorithm" in all material mentioning or referencing this software
 * or this function.
 *
 * License is also granted to make and use derivative works provided
 * that such works are identified as "derived from the RSA Data
 * Security, Inc. MD4 Message-Digest Algorithm" in all material
 * mentioning or referencing the derived work.
 *
 * RSA Data Security, Inc. makes no representations concerning either
 * the merchantability of this software or the suitability of this
 * software for any particular purpose. It is provided "as is"
 * without express or implied warranty of any kind.
 *
 * These notices must be retained in any copies of any part of this
 * documentation and/or software.
 */


For the srclib\apr-util\test\testmd4.c component:

 *
 * This is derived from material copyright RSA Data Security, Inc.
 * Their notice is reproduced below in its entirety.
 *
```

```
 * Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All
 * rights reserved.
 *
 * RSA Data Security, Inc. makes no representations concerning either
 * the merchantability of this software or the suitability of this
 * software for any particular purpose. It is provided "as is"
 * without express or implied warranty of any kind.
 *
 * These notices must be retained in any copies of any part of this
 * documentation and/or software.
 */

For the test\zb.c component:

/*                          ZeusBench V1.01
       ===============

This program is Copyright (C) Zeus Technology Limited 1996.

This program may be used and copied freely providing this copyright notice
is not removed.

This software is provided "as is" and any express or implied waranties,
including but not limited to, the implied warranties of merchantability and
fitness for a particular purpose are disclaimed.  In no event shall
Zeus Technology Ltd. be liable for any direct, indirect, incidental,
 special,
exemplary, or consequential damaged (including, but not limited to,
procurement of substitute good or services; loss of use, data, or profits;
or business interruption) however caused and on theory of liability.
 Whether
in contract, strict liability or tort (including negligence or otherwise)
arising in any way out of the use of this software, even if advised of the
possibility of such damage.

     Written by Adam Twiss (adam@zeus.co.uk).  March 1996

Thanks to the following people for their input:
  Mike Belshe (mbelshe@netscape.com)
  Michael Campanella (campanella@stevms.enet.dec.com)

*/


======================================================================
```

Provider: Apache / Component(s): Ignite 2.4.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
================================================================================
Apache Ignite Subcomponents:

The Apache Ignite project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.


================================================================================
For SnapTree:
================================================================================
This product bundles SnapTree, which is available under a
"3-clause BSD" license.  For details, see
https://github.com/nbronson/snaptree/blob/master/LICENSE.

================================================================================
For netlib-java:
================================================================================
This product bundles netlib-java, which is available under a
"3-clause BSD" license.  For details, see
https://github.com/fommil/netlib-java/blob/master/LICENSE.txt.

================================================================================
For JSR 166 classes in "org.jsr166" package
================================================================================
This product bundles JSR-166 classes which are donated to public domain.
For details, see CC0 1.0 Universal (1.0), Public Domain Dedication,
http://creativecommons.org/publicdomain/zero/1.0/

================================================================================
For books used for tests in
 "org.apache.ignite.internal.processors.hadoop.books"
================================================================================
This code bundles book text files used for testing purposes which contain
the following header:

This eBook is for the use of anyone anywhere at no cost and with
almost no restrictions whatsoever.  You may copy it, give it away or
re-use it under the terms of the Project Gutenberg License included
with this eBook or online at www.gutenberg.org
```

Provider: Apache / Component(s): jackson-core 2.6.3

```
Engineering must ensure that the following license is included in the
 documentation of the Oracle product that includes the code.

The following applies to all products licensed under the Apache 2.0 License:

You may not use the identified files except in compliance with the Apache
 License, Version 2.0 (the "License.")

You may obtain a copy of the License at http://www.apache.org/licenses/
LICENSE-2.0.  A copy of the license is also reproduced below.

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and
 limitations under the License.
```

```
                    Apache License
                            Version 2.0, January 2004
                         http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Apache / Component(s): Kafka 2.1.0

```
Kafka is licensed under the Apache 2.0 License

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
```

```
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
```

```
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------
Fourth party dependencies and their license info:

Apache 2.0 License:
1) Lightbend Scala 2.12
2) Lightbend Scala-Logging 3.9.2
3) Lightbend Scala-Library 2.12.8
4) Lightbend Scala-Reflect 2.12.8
5) Apache Kafka-Clients 2.1.0
6) Apache Zookeeper 3.4.13
7) zkclient 0.11 by Stefan Groschupf
8) FasterXML Jackson-Databind 2.9.8
9) DropWizard Metrics-Core 3.0.2
-------------------------------------------------------------------------------------------
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------
MIT License:
10) SLF4J SLF4J-api 1.7.25
11) JOpt-Simple 5.0.4
-------------------------------------------------------------------------------------------
/*
 The MIT License
```

```
 Copyright (c) 2004-2016 Paul R. Holser, Jr.

 Permission is hereby granted, free of charge, to any person obtaining
 a copy of this software and associated documentation files (the
 "Software"), to deal in the Software without restriction, including
 without limitation the rights to use, copy, modify, merge, publish,
 distribute, sublicense, and/or sell copies of the Software, and to
 permit persons to whom the Software is furnished to do so, subject to
 the following conditions:

 The above copyright notice and this permission notice shall be
 included in all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/
```

Provider: Apache / Component(s): Kafka 2.2.0

```
Kafka is licensed under the Apache 2.0 License

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
```

```
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
```

```
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------
Fourth party dependencies and their license info:

Apache 2.0 License:
1) Lightbend Scala 2.12
2) Lightbend Scala-Logging 3.9.2
3) Lightbend Scala-Library 2.12.8
4) Lightbend Scala-Reflect 2.12.8
5) Apache Kafka-Clients 2.1.0
6) Apache Zookeeper 3.4.13
7) zkclient 0.11 by Stefan Groschupf
8) FasterXML Jackson-Databind 2.9.8
9) DropWizard Metrics-Core 3.0.2
-------------------------------------------------------------------------------------------
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.

-----------------------------------------------------------------------------------------
MIT License:
10) SLF4J SLF4J-api 1.7.25
11) JOpt-Simple 5.0.4
-----------------------------------------------------------------------------------------
/*
 The MIT License

 Copyright (c) 2004-2016 Paul R. Holser, Jr.

 Permission is hereby granted, free of charge, to any person obtaining
 a copy of this software and associated documentation files (the
 "Software"), to deal in the Software without restriction, including
 without limitation the rights to use, copy, modify, merge, publish,
 distribute, sublicense, and/or sell copies of the Software, and to
 permit persons to whom the Software is furnished to do so, subject to
 the following conditions:

 The above copyright notice and this permission notice shall be
 included in all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/
```

Provider: Apache / Component(s): Log4J 2.11.2

```
log4j-slf4j-impl 2.11.0 (module of apache logging-log4j2)

COPYRIGHT:  Copyright 1999-2005 The Apache Software Foundation
LICENSE:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
```

```
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
```

```
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 1999-2005 The Apache Software Foundation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------
4P Dependencies:

org.slf4j slf4j-api 1.8.0-alpha2
COPYRIGHT and LICENSE:

Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
```

```
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


----------------------------
org.apache.logging log4j-api 2.11.0
Same copyright and license as log4j-slf4j-impl 2.11.0


--------------------------
org.apache.logging log4j-core 2.11.0
Same copyright and license as log4j-slf4j-impl 2.11.0
```

Provider: Apache / Component(s): Rancher Type e493e79-20181204

```
rancher/types/LICENSE
rancher/types/vendor/k8s.io/kube-openapi/LICENSE
rancher/types/vendor/k8s.io/apiextensions-apiserver/LICENSE
rancher/types/vendor/k8s.io/apimachinery/LICENSE
rancher/types/vendor/k8s.io/client-go/LICENSE
rancher/types/vendor/k8s.io/api/LICENSE
rancher/types/vendor/k8s.io/gengo/LICENSE
rancher/types/vendor/github.com/modern-go/reflect2/LICENSE
rancher/types/vendor/github.com/modern-go/concurrent/LICENSE
rancher/types/vendor/github.com/rancher/norman/LICENSE
rancher/types/vendor/github.com/golang/glog/LICENSE
rancher/types/vendor/github.com/golang/groupcache/LICENSE
rancher/types/vendor/github.com/googleapis/gnostic/LICENSE
rancher/types/vendor/github.com/google/gofuzz/LICENSE

/scratch/hhuliu/rancher/types/vendor/gopkg.in/yaml.v2/LICENSE
Copyright 2011-2016 Canonical Ltd.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
```

```
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
```

```
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
```

```
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

rancher/types/vendor/gopkg.in/inf.v0/LICENSE
Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
/scratch/hhuliu/rancher/types/vendor/golang.org/x/sys/LICENSE
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
/scratch/hhuliu/rancher/types/vendor/golang.org/x/tools/LICENSE
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
/scratch/hhuliu/rancher/types/vendor/golang.org/x/time/LICENSE
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
```

```
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
/scratch/hhuliu/rancher/types/vendor/golang.org/x/net/LICENSE
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
/scratch/hhuliu/rancher/types/vendor/golang.org/x/crypto/LICENSE
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
/scratch/hhuliu/rancher/types/vendor/golang.org/x/text/LICENSE
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
/scratch/hhuliu/rancher/types/vendor/golang.org/x/sync/LICENSE
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------separator---------
rancher/types/vendor/github.com/sirupsen/logrus/LICENSE
The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.





---------separator---------
rancher/types/vendor/github.com/json-iterator/go/LICENSE
MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
---------separator---------
rancher/types/vendor/github.com/ghodss/yaml/LICENSE
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------separator---------
rancher/types/vendor/github.com/golang/protobuf/LICENSE
Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors. All rights reserved.
```

```
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




---------separator---------
rancher/types/vendor/github.com/gogo/protobuf/LICENSE
Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors. All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

/scratch/hhuliu/rancher/types/vendor/github.com/spf13/pflag/LICENSE
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


rancher/types/vendor/github.com/hashicorp/golang-lru/LICENSE
Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the
creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a
Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the
notice in Exhibit A, the Executable Form of such Source Code Form, and
Modifications of such Source Code Form, in each case including portions
thereof.

1.5. "Incompatible With Secondary Licenses"
means
```

```
a. that the initial Contributor has attached the notice described in
Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the terms of
a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a
separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether
at the time of the initial grant or subsequently, any and all of the
rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to,
deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method,
process, and apparatus claims, in any patent Licensable by such
Contributor that would be infringed, but for the grant of the License,
by the making, using, selling, offering for sale, having made, import,
or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser
General Public License, Version 2.1, the GNU Affero General Public
License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this
License. For legal entities, "You" includes any entity that controls, is
controlled by, or is under common control with You. For purposes of this
definition, "control" means (a) the power, direct or indirect, to cause
the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.
```

```
2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

a. under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available,
modify, display, perform, distribute, and otherwise exploit its
Contributions, either on an unmodified basis, with Modifications, or
as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its
Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
Version); or

c. under Patent Claims infringed by Covered Software in the absence of
its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights to
grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.
```

```
2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form,
as described in Section 3.1, and You must inform recipients of the
Executable Form how they can obtain a copy of such Source Code Form by
reasonable means in a timely manner, at a charge no more than the cost
of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this
License, or sublicense it under different terms, provided that the
license for the Executable Form does not attempt to limit or alter the
recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty, or
limitations of liability) contained within the Source Code Form of the
Covered Software, except that You may alter any license notices to the
extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
```

```
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute,
judicial order, or regulation then You must: (a) comply with the terms of
this License to the maximum extent possible; and (b) describe the
limitations and the code they affect. Such description must be placed in a
text file included with all distributions of the Covered Software under
this License. Except to the extent prohibited by statute or regulation,
such description must be sufficiently detailed for a recipient of ordinary
skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
fail to comply with any of its terms. However, if You become compliant,
then the rights granted under this License from a particular Contributor
are reinstated (a) provisionally, unless and until such Contributor
explicitly and finally terminates Your grants, and (b) on an ongoing
basis, if such Contributor fails to notify You of the non-compliance by
some reasonable means prior to 60 days after You have come back into
compliance. Moreover, Your grants from a particular Contributor are
reinstated on an ongoing basis if such Contributor notifies You of the
non-compliance by some reasonable means, this is the first time You have
received notice of non-compliance with this License from such
Contributor, and You become compliant prior to 30 days after Your receipt
of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis,
without warranty of any kind, either expressed, implied, or statutory,
including, without limitation, warranties that the Covered Software is free
of defects, merchantable, fit for a particular purpose or non-infringing.
The entire risk as to the quality and performance of the Covered Software
is with You. Should any Covered Software prove defective in any respect,
You (not any Contributor) assume the cost of any necessary servicing,
repair, or correction. This disclaimer of warranty constitutes an essential
part of this License. No use of any Covered Software is authorized under
this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
```

```
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses, even if such party shall have been
informed of the possibility of such damages. This limitation of liability
shall not apply to liability for death or personal injury resulting from
such party's negligence to the extent applicable law prohibits such
limitation. Some jurisdictions do not allow the exclusion or limitation of
incidental or consequential damages, so this exclusion and limitation may
not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts
of a jurisdiction where the defendant maintains its principal place of
business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions. Nothing
in this Section shall prevent a party's ability to bring cross-claims or
counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides that
the language of a contract shall be construed against the drafter shall not
be used to construe this License against a Contributor.


10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses If You choose to distribute Source Code Form that is
Incompatible With Secondary Licenses under the terms of this version of
the License, the notice described in Exhibit B of this License must be
attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
```

```
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.


---------separator---------
rancher/types/vendor/github.com/gorilla/websocket/LICENSE
Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




---------separator---------
rancher/types/vendor/github.com/davecgh/go-spew/LICENSE
ISC License

Copyright (c) 2012-2016 Dave Collins

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
```

```
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
/scratch/hhuliu/rancher/types/vendor/github.com/pkg/errors/LICENSE
Copyright (c) 2015, Dave Cheney
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Apache / Component(s): requests 2.10.0

```
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
```

```
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

Attributions:
https://github.com/kennethreitz/requests/blob/master/NOTICE

Requests includes some vendorized python libraries to ease installation.

Urllib3 License
===============

This is the MIT license: http://www.opensource.org/licenses/mit-license.php

Copyright 2008-2011 Andrey Petrov and contributors (see CONTRIBUTORS.txt),
Modifications copyright 2012 Kenneth Reitz.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Chardet License
===============

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
```

```
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
02110-1301 USA


CA Bundle License
=================

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at http://mozilla.org/MPL/2.0/.

4th Party Dependencies:
alabaster ver.0.7.7
Copyright (c) 2015 Jeff Forcier.

Based on original work copyright (c) 2011 Kenneth Reitz and copyright (c)
 2010
Armin Ronacher.

Some rights reserved.

Redistribution and use in source and binary forms of the theme, with or
without modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS THEME IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS THEME, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


Babel ver.2.2.0
Copyright (C) 2013 by the Babel Team, see AUTHORS for more information.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
```

```
the documentation and/or other materials provided with the
distribution.
3. The name of the author may not be used to endorse or promote
products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Authors
Babel is written and maintained by the Babel team and various contributors:

Maintainer and Current Project Lead:

- Armin Ronacher

Contributors:

- Christopher Lenz
- Alex Morega
- Felix Schwarz
- Pedro Algarvio
- Jeroen Ruigrok van der Werven
- Philip Jenvey
- Tobias Bieniek
- Jonas Borgström
- Daniel Neuhäuser
- Nick Retallack
- Thomas Waldmann
- Lennart Regebro
- Isaac Jurado
- Craig Loftus

Babel was previously developed under the Copyright of Edgewall Software. The
following copyright notice holds true for releases before 2013: "Copyright
 (c)
2007 - 2011 by Edgewall Software"

In addition to the regular contributions Babel includes a fork of Lennart
Regebro's tzlocal that originally was licensed under the CC0 license. The
original copyright of that project is "Copyright 2013 by Lennart Regebro".


coverage ver.4.0.3
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
```

```
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
```

```
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


decorator ver.4.0.9
Copyright (c) 2005-2015, Michele Simionato
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
Redistributions in bytecode form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.



docutils ver.0.12
=================
Copying Docutils
==================

:Author: David Goodger
```

```
:Contact: goodger@python.org
:Date: $Date: 2012-10-16 14:40:36 +0200 (Die, 16. Okt 2012) $
:Web site: http://docutils.sourceforge.net/
:Copyright: This document has been placed in the public domain.

Most of the files included in this project have been placed in the
public domain, and therefore have no license requirements and no
restrictions on copying or usage; see the `Public Domain Dedication`_
below. There are a few exceptions_, listed below.
Files in the Sandbox_ are not distributed with Docutils releases and
may have different license terms.


Public Domain Dedication
========================

The persons who have associated their work with this project (the
"Dedicator": David Goodger and the many contributors to the Docutils
project) hereby dedicate the entire copyright, less the exceptions_
listed below, in the work of authorship known as "Docutils" identified
below (the "Work") to the public domain.

The primary repository for the Work is the Internet World Wide Web
site . The Work consists of the
files within the "docutils" module of the Docutils project Subversion
repository (Internet host docutils.svn.sourceforge.net, filesystem path
/svnroot/docutils), whose Internet web interface is located at
. Files dedicated to the
public domain may be identified by the inclusion, near the beginning
of each file, of a declaration of the form::

Copyright: This document/module/DTD/stylesheet/file/etc. has been
placed in the public domain.

Dedicator makes this dedication for the benefit of the public at large
and to the detriment of Dedicator's heirs and successors. Dedicator
intends this dedication to be an overt act of relinquishment in
perpetuity of all present and future rights under copyright law,
whether vested or contingent, in the Work. Dedicator understands that
such relinquishment of all rights includes the relinquishment of all
rights to enforce (by lawsuit or otherwise) those copyrights in the
Work.

Dedicator recognizes that, once placed in the public domain, the Work
may be freely reproduced, distributed, transmitted, used, modified,
built upon, or otherwise exploited by anyone for any purpose,
commercial or non-commercial, and in any way, including by methods
that have not yet been invented or conceived.

(This dedication is derived from the text of the `Creative Commons
Public Domain Dedication`. [#]_)

.. [#] Creative Commons has `retired this legal tool`__ and does not
recommend that it be applied to works: This tool is based on United
States law and may not be applicable outside the US. For dedicating new
works to the public domain, Creative Commons recommend the replacement
Public Domain Dedication CC0_ (CC zero, "No Rights Reserved"). So does
the Free Software Foundation in its license-list_.

__ http://creativecommons.org/retiredlicenses
.. _CC0: http://creativecommons.org/about/cc0


Flask ver.0.10.1
```

```
opyright (c) 2013 by Armin Ronacher and contributors. See AUTHORS
for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.



httpbin ver.0.4.1
ISC License

Copyright (c) 2011 Kenneth Reitz.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


itsdangerous ver.0.24
Copyright (c) 2011 by Armin Ronacher and the Django Software Foundation.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
```

```
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Jinja2 ver.2.8
Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


MarkupSafe ver.0.23
Copyright (c) 2010 by Armin Ronacher and contributors. See AUTHORS
for more details.

Some rights reserved.
```

```
Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

py ver.1.4.31
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



Pygments ver.2.1.1
Copyright (c) 2006-2015 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

AUTHORS
Pygments is written and maintained by Georg Brandl .

Major developers are Tim Hatch and Armin Ronacher
.

Other contributors, listed alphabetically, are:

* Sam Aaron -- Ioke lexer
* Ali Afshar -- image formatter
* Thomas Aglassinger -- Easytrieve, JCL and Rexx lexers
* Muthiah Annamalai -- Ezhil lexer
* Kumar Appaiah -- Debian control lexer
* Andreas Amann -- AppleScript lexer
* Timothy Armstrong -- Dart lexer fixes
* Jeffrey Arnold -- R/S, Rd, BUGS, Jags, and Stan lexers
* Jeremy Ashkenas -- CoffeeScript lexer
* José Joaquín Atria -- Praat lexer
* Stefan Matthias Aust -- Smalltalk lexer
* Lucas Bajolet -- Nit lexer
* Ben Bangert -- Mako lexers
* Max Battcher -- Darcs patch lexer
* Thomas Baruchel -- APL lexer
* Tim Baumann -- (Literate) Agda lexer
* Paul Baumgart, 280 North, Inc. -- Objective-J lexer
* Michael Bayer -- Myghty lexers
* Thomas Beale -- Archetype lexers
* John Benediktsson -- Factor lexer
* Trevor Bergeron -- mIRC formatter
* Vincent Bernat -- LessCSS lexer
* Christopher Bertels -- Fancy lexer
* Sébastien Bigaret -- QVT Operational lexer
* Jarrett Billingsley -- MiniD lexer
* Adam Blinkinsop -- Haskell, Redcode lexers
* Frits van Bommel -- assembler lexers
* Pierre Bourdon -- bugfixes
* chebee7i -- Python traceback lexer improvements
* Hiram Chirino -- Scaml and Jade lexers
* Ian Cooper -- VGL lexer
* David Corbett -- Inform, Jasmin, and TADS 3 lexers
* Leaf Corcoran -- MoonScript lexer
* Christopher Creutzig -- MuPAD lexer
* Daniël W. Crompton -- Pike lexer
* Pete Curry -- bugfixes
* Bryan Davis -- EBNF lexer
* Bruno Deferrari -- Shen lexer
* Giedrius Dubinskas -- HTML formatter improvements
```

```
* Owen Durni -- Haxe lexer
* Alexander Dutton, Oxford University Computing Services -- SPARQL lexer
* James Edwards -- Terraform lexer
* Nick Efford -- Python 3 lexer
* Sven Efftinge -- Xtend lexer
* Artem Egorkine -- terminal256 formatter
* Matthew Fernandez -- CAmkES lexer
* Michael Ficarra -- CPSA lexer
* James H. Fisher -- PostScript lexer
* William S. Fulton -- SWIG lexer
* Carlos Galdino -- Elixir and Elixir Console lexers
* Michael Galloy -- IDL lexer
* Naveen Garg -- Autohotkey lexer
* Laurent Gautier -- R/S lexer
* Alex Gaynor -- PyPy log lexer
* Richard Gerkin -- Igor Pro lexer
* Alain Gilbert -- TypeScript lexer
* Alex Gilding -- BlitzBasic lexer
* Bertrand Goetzmann -- Groovy lexer
* Krzysiek Goj -- Scala lexer
* Matt Good -- Genshi, Cheetah lexers
* Michał Górny -- vim modeline support
* Alex Gosse -- TrafficScript lexer
* Patrick Gotthardt -- PHP namespaces support
* Olivier Guibe -- Asymptote lexer
* Jordi Gutiérrez Hermoso -- Octave lexer
* Florian Hahn -- Boogie lexer
* Martin Harriman -- SNOBOL lexer
* Matthew Harrison -- SVG formatter
* Steven Hazel -- Tcl lexer
* Dan Michael Heggø -- Turtle lexer
* Aslak Hellesøy -- Gherkin lexer
* Greg Hendershott -- Racket lexer
* Justin Hendrick -- ParaSail lexer
* David Hess, Fish Software, Inc. -- Objective-J lexer
* Varun Hiremath -- Debian control lexer
* Rob Hoelz -- Perl 6 lexer
* Doug Hogan -- Mscgen lexer
* Ben Hollis -- Mason lexer
* Max Horn -- GAP lexer
* Alastair Houghton -- Lexer inheritance facility
* Tim Howard -- BlitzMax lexer
* Dustin Howett -- Logos lexer
* Ivan Inozemtsev -- Fantom lexer
* Hiroaki Itoh -- Shell console rewrite, Lexers for PowerShell session,
 MSDOS session, BC
* Brian R. Jackson -- Tea lexer
* Christian Jann -- ShellSession lexer
* Dennis Kaarsemaker -- sources.list lexer
* Dmitri Kabak -- Inferno Limbo lexer
* Igor Kalnitsky -- vhdl lexer
* Alexander Kit -- MaskJS lexer
* Pekka Klärck -- Robot Framework lexer
* Gerwin Klein -- Isabelle lexer
* Eric Knibbe -- Lasso lexer
* Stepan Koltsov -- Clay lexer
* Adam Koprowski -- Opa lexer
* Benjamin Kowarsch -- Modula-2 lexer
* Domen Kožar -- Nix lexer
* Oleh Krekel -- Emacs Lisp lexer
* Alexander Kriegisch -- Kconfig and AspectJ lexers
* Marek Kubica -- Scheme lexer
* Jochen Kupperschmidt -- Markdown processor
* Gerd Kurzbach -- Modelica lexer
```

```
* Jon Larimer, Google Inc. -- Smali lexer
* Olov Lassus -- Dart lexer
* Matt Layman -- TAP lexer
* Sylvestre Ledru -- Scilab lexer
* Mark Lee -- Vala lexer
* Valentin Lorentz -- C++ lexer improvements
* Ben Mabey -- Gherkin lexer
* Angus MacArthur -- QML lexer
* Louis Mandel -- X10 lexer
* Louis Marchand -- Eiffel lexer
* Simone Margaritelli -- Hybris lexer
* Kirk McDonald -- D lexer
* Gordon McGregor -- SystemVerilog lexer
* Stephen McKamey -- Duel/JBST lexer
* Brian McKenna -- F# lexer
* Charles McLaughlin -- Puppet lexer
* Lukas Meuser -- BBCode formatter, Lua lexer
* Cat Miller -- Pig lexer
* Paul Miller -- LiveScript lexer
* Hong Minhee -- HTTP lexer
* Michael Mior -- Awk lexer
* Bruce Mitchener -- Dylan lexer rewrite
* Reuben Morais -- SourcePawn lexer
* Jon Morton -- Rust lexer
* Paulo Moura -- Logtalk lexer
* Mher Movsisyan -- DTD lexer
* Dejan Muhamedagic -- Crmsh lexer
* Ana Nelson -- Ragel, ANTLR, R console lexers
* Nam T. Nguyen -- Monokai style
* Jesper Noehr -- HTML formatter "anchorlinenos"
* Mike Nolta -- Julia lexer
* Jonas Obrist -- BBCode lexer
* Edward O'Callaghan -- Cryptol lexer
* David Oliva -- Rebol lexer
* Pat Pannuto -- nesC lexer
* Jon Parise -- Protocol buffers and Thrift lexers
* Benjamin Peterson -- Test suite refactoring
* Ronny Pfannschmidt -- BBCode lexer
* Dominik Picheta -- Nimrod lexer
* Andrew Pinkham -- RTF Formatter Refactoring
* Clément Prévost -- UrbiScript lexer
* Elias Rabel -- Fortran fixed form lexer
* raichoo -- Idris lexer
* Kashif Rasul -- CUDA lexer
* Justin Reidy -- MXML lexer
* Norman Richards -- JSON lexer
* Corey Richardson -- Rust lexer updates
* Lubomir Rintel -- GoodData MAQL and CL lexers
* Andre Roberge -- Tango style
* Konrad Rudolph -- LaTeX formatter enhancements
* Mario Ruggier -- Evoque lexers
* Miikka Salminen -- Lovelace style, Hexdump lexer, lexer enhancements
* Stou Sandalski -- NumPy, FORTRAN, tcsh and XSLT lexers
* Matteo Sasso -- Common Lisp lexer
* Joe Schafer -- Ada lexer
* Ken Schutte -- Matlab lexers
* Tassilo Schweyer -- Io, MOOCode lexers
* Ted Shaw -- AutoIt lexer
* Joerg Sieker -- ABAP lexer
* Robert Simmons -- Standard ML lexer
* Kirill Simonov -- YAML lexer
* Alexander Smishlajev -- Visual FoxPro lexer
* Steve Spigarelli -- XQuery lexer
* Jerome St-Louis -- eC lexer
```

```
* James Strachan -- Kotlin lexer
* Tom Stuart -- Treetop lexer
* Colin Sullivan -- SuperCollider lexer
* Edoardo Tenani -- Arduino lexer
* Tiberius Teng -- default style overhaul
* Jeremy Thurgood -- Erlang, Squid config lexers
* Brian Tiffin -- OpenCOBOL lexer
* Bob Tolbert -- Hy lexer
* Erick Tryzelaar -- Felix lexer
* Alexander Udalov -- Kotlin lexer improvements
* Thomas Van Doren -- Chapel lexer
* Daniele Varrazzo -- PostgreSQL lexers
* Abe Voelker -- OpenEdge ABL lexer
* Pepijn de Vos -- HTML formatter CTags support
* Matthias Vallentin -- Bro lexer
* Linh Vu Hong -- RSL lexer
* Nathan Weizenbaum -- Haml and Sass lexers
* Nathan Whetsell -- Csound lexers
* Dietmar Winkler -- Modelica lexer
* Nils Winter -- Smalltalk lexer
* Davy Wybiral -- Clojure lexer
* Whitney Young -- ObjectiveC lexer
* Diego Zamboni -- CFengine3 lexer
* Enrique Zamudio -- Ceylon lexer
* Alex Zimin -- Nemerle lexer
* Rob Zimmerman -- Kal lexer
* Vincent Zurczak -- Roboconf lexer

Many thanks for all contributions!

pytest ver.2.8.7
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



pytest-cov ver.2.2.1
The MIT License

Copyright (c) 2010 Meme Dough

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



pytest-httpbin ver.0.2.0
The MIT License (MIT)

Copyright (c) 2014-2015 Kevin McCarthy

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

pytest-mock ver.0.11.0
NU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.


This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
```

```
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified
version:

a) under this License, provided that you make a good faith effort to
ensure that, in the event an Application does not supply the
function or data, the facility still operates, and performs
whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of
this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:
```

```
a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.
```

```
Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

pytz ver.2015.7
Copyright (c) 2003-2009 Stuart Bishop

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

six ver.1.10.0
Copyright (c) 2010-2015 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
snowballstemmer ver.1.2.1
License
-------

Copyright (c) 2013, Yoshiki Shibukawa

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and
the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions
and the following disclaimer in the documentation and/or other materials
 provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT HOLDER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Sphinx ver.1.3.5
License for Sphinx
==================

Copyright (c) 2007-2016 by the Sphinx team (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Licenses for incorporated software
==================================

The pgen2 package, included in this distribution under the name
sphinx.pycode.pgen2, is available in the Python 2.6 distribution under
the PSF license agreement for Python:

-----------------------------------------------------------------------
Copyright © 2001-2008 Python Software Foundation; All Rights Reserved.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing
and otherwise using Python 2.6 software in source or binary form
and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display
publicly, prepare derivative works, distribute, and otherwise use
Python 2.6 alone or in any derivative version, provided, however,
that PSF's License Agreement and PSF's notice of copyright, i.e.,
"Copyright © 2001-2008 Python Software Foundation; All Rights
Reserved" are retained in Python 2.6 alone or in any derivative
version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 2.6 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary
of the changes made to Python 2.6.

4. PSF is making Python 2.6 available to Licensee on an "AS IS" basis.
PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY
WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY
PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 2.6 WILL NOT INFRINGE
ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
2.6 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON
2.6, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY
THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF
and Licensee. This License Agreement does not grant permission to
use PSF trademarks or trade name in a trademark sense to endorse or
promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python 2.6, Licensee
agrees to be bound by the terms and conditions of this License
```

```
Agreement.
---------------------------------------------------------------------

The included smartypants module, included as sphinx.util.smartypants,
is available under the following license:

---------------------------------------------------------------------
SmartyPants_ license::

Copyright (c) 2003 John Gruber
(http://daringfireball.net/)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.

* Neither the name "SmartyPants" nor the names of its
contributors may be used to endorse or promote products
derived from this software without specific prior written
permission.

This software is provided by the copyright holders and
contributors "as is" and any express or implied warranties,
including, but not limited to, the implied warranties of
merchantability and fitness for a particular purpose are
disclaimed. In no event shall the copyright owner or contributors
be liable for any direct, indirect, incidental, special,
exemplary, or consequential damages (including, but not limited
to, procurement of substitute goods or services; loss of use,
data, or profits; or business interruption) however caused and on
any theory of liability, whether in contract, strict liability, or
tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of
such damage.


smartypants.py license::

smartypants.py is a derivative work of SmartyPants.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.

This software is provided by the copyright holders and
contributors "as is" and any express or implied warranties,
including, but not limited to, the implied warranties of
```

```
merchantability and fitness for a particular purpose are
disclaimed. In no event shall the copyright owner or contributors
be liable for any direct, indirect, incidental, special,
exemplary, or consequential damages (including, but not limited
to, procurement of substitute goods or services; loss of use,
data, or profits; or business interruption) however caused and on
any theory of liability, whether in contract, strict liability, or
tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of
such damage.
--------------------------------------------------------------------

The ElementTree package, included in this distribution in
test/etree13, is available under the following license:

--------------------------------------------------------------------
The ElementTree toolkit is

Copyright (c) 1999-2007 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its
associated documentation, you agree that you have read, understood,
and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its
associated documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appears in all
copies, and that both that copyright notice and this permission notice
appear in supporting documentation, and that the name of Secret Labs
AB or the author not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANT- ABILITY
AND FITNESS. IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
--------------------------------------------------------------------

The included JQuery JavaScript library is available under the MIT
license:

--------------------------------------------------------------------
Copyright (c) 2008 John Resig, http://jquery.com/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
```

```
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------

The included Underscore JavaScript library is available under the MIT
license:

-----------------------------------------------------------------------
Copyright (c) 2009 Jeremy Ashkenas, DocumentCloud

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

The included implementation of
 NumpyDocstring._parse_numpydoc_see_also_section
was derived from code under the following license:

--------------------------------------------------------------------------------

Copyright (C) 2008 Stefan van der Walt , Pauli Virtanen

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

```
--------------------------------------------------------------------------------

sphinx-rtd-theme ver.0.1.9
The MIT License (MIT)

Copyright (c) 2013 Dave Snider

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



Werkzeug ver.0.11.4
Copyright (c) 2014 by the Werkzeug Team, see AUTHORS for more details.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
wheel ver.0.29.0
"wheel" copyright (c) 2012-2014 Daniel Holth and
contributors.

The MIT License

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Apache / Component(s): requests 2.13

```
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
```

```
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

Attributions:
https://github.com/kennethreitz/requests/blob/master/NOTICE

Requests includes some vendorized python libraries to ease installation.

Urllib3 License
===============

This is the MIT license: http://www.opensource.org/licenses/mit-license.php

Copyright 2008-2011 Andrey Petrov and contributors (see CONTRIBUTORS.txt),
Modifications copyright 2012 Kenneth Reitz.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Chardet License
===============

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
02110-1301 USA


CA Bundle License
=================
```

```
This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at http://mozilla.org/MPL/2.0/.

4th Party Dependencies:
alabaster ver.0.7.7
Copyright (c) 2015 Jeff Forcier.

Based on original work copyright (c) 2011 Kenneth Reitz and copyright (c)
 2010
Armin Ronacher.

Some rights reserved.

Redistribution and use in source and binary forms of the theme, with or
without modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS THEME IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS THEME, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


Babel ver.2.2.0
Copyright (C) 2013 by the Babel Team, see AUTHORS for more information.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
3. The name of the author may not be used to endorse or promote
products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS
```

```
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Authors
Babel is written and maintained by the Babel team and various contributors:

Maintainer and Current Project Lead:

- Armin Ronacher

Contributors:

- Christopher Lenz
- Alex Morega
- Felix Schwarz
- Pedro Algarvio
- Jeroen Ruigrok van der Werven
- Philip Jenvey
- Tobias Bieniek
- Jonas Borgström
- Daniel Neuhäuser
- Nick Retallack
- Thomas Waldmann
- Lennart Regebro
- Isaac Jurado
- Craig Loftus

Babel was previously developed under the Copyright of Edgewall Software. The
following copyright notice holds true for releases before 2013: "Copyright
 (c)
2007 - 2011 by Edgewall Software"

In addition to the regular contributions Babel includes a fork of Lennart
Regebro's tzlocal that originally was licensed under the CC0 license. The
original copyright of that project is "Copyright 2013 by Lennart Regebro".


coverage ver.4.0.3
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
```

```
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
```

```
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
```

```
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


decorator ver.4.0.9
Copyright (c) 2005-2015, Michele Simionato
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
Redistributions in bytecode form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.



docutils ver.0.12
=================
Copying Docutils
==================

:Author: David Goodger
:Contact: goodger@python.org
:Date: $Date: 2012-10-16 14:40:36 +0200 (Die, 16. Okt 2012) $
:Web site: http://docutils.sourceforge.net/
:Copyright: This document has been placed in the public domain.

Most of the files included in this project have been placed in the
public domain, and therefore have no license requirements and no
restrictions on copying or usage; see the `Public Domain Dedication`_
below. There are a few exceptions_, listed below.
```

```
Files in the Sandbox_ are not distributed with Docutils releases and
may have different license terms.


Public Domain Dedication
========================

The persons who have associated their work with this project (the
"Dedicator": David Goodger and the many contributors to the Docutils
project) hereby dedicate the entire copyright, less the exceptions_
listed below, in the work of authorship known as "Docutils" identified
below (the "Work") to the public domain.

The primary repository for the Work is the Internet World Wide Web
site . The Work consists of the
files within the "docutils" module of the Docutils project Subversion
repository (Internet host docutils.svn.sourceforge.net, filesystem path
/svnroot/docutils), whose Internet web interface is located at
. Files dedicated to the
public domain may be identified by the inclusion, near the beginning
of each file, of a declaration of the form::

Copyright: This document/module/DTD/stylesheet/file/etc. has been
placed in the public domain.

Dedicator makes this dedication for the benefit of the public at large
and to the detriment of Dedicator's heirs and successors. Dedicator
intends this dedication to be an overt act of relinquishment in
perpetuity of all present and future rights under copyright law,
whether vested or contingent, in the Work. Dedicator understands that
such relinquishment of all rights includes the relinquishment of all
rights to enforce (by lawsuit or otherwise) those copyrights in the
Work.

Dedicator recognizes that, once placed in the public domain, the Work
may be freely reproduced, distributed, transmitted, used, modified,
built upon, or otherwise exploited by anyone for any purpose,
commercial or non-commercial, and in any way, including by methods
that have not yet been invented or conceived.

(This dedication is derived from the text of the `Creative Commons
Public Domain Dedication`. [#]_)

.. [#] Creative Commons has `retired this legal tool`__ and does not
recommend that it be applied to works: This tool is based on United
States law and may not be applicable outside the US. For dedicating new
works to the public domain, Creative Commons recommend the replacement
Public Domain Dedication CC0_ (CC zero, "No Rights Reserved"). So does
the Free Software Foundation in its license-list_.

__ http://creativecommons.org/retiredlicenses
.. _CC0: http://creativecommons.org/about/cc0


Flask ver.0.10.1
opyright (c) 2013 by Armin Ronacher and contributors. See AUTHORS
for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.



httpbin ver.0.4.1
ISC License

Copyright (c) 2011 Kenneth Reitz.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


itsdangerous ver.0.24
Copyright (c) 2011 by Armin Ronacher and the Django Software Foundation.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
```

```
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Jinja2 ver.2.8
Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


MarkupSafe ver.0.23
Copyright (c) 2010 by Armin Ronacher and contributors. See AUTHORS
for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
```

```
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

py ver.1.4.31
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



Pygments ver.2.1.1
Copyright (c) 2006-2015 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

AUTHORS
Pygments is written and maintained by Georg Brandl .

Major developers are Tim Hatch and Armin Ronacher
.

Other contributors, listed alphabetically, are:

* Sam Aaron -- Ioke lexer
* Ali Afshar -- image formatter
* Thomas Aglassinger -- Easytrieve, JCL and Rexx lexers
* Muthiah Annamalai -- Ezhil lexer
* Kumar Appaiah -- Debian control lexer
* Andreas Amann -- AppleScript lexer
* Timothy Armstrong -- Dart lexer fixes
* Jeffrey Arnold -- R/S, Rd, BUGS, Jags, and Stan lexers
* Jeremy Ashkenas -- CoffeeScript lexer
* José Joaquín Atria -- Praat lexer
* Stefan Matthias Aust -- Smalltalk lexer
* Lucas Bajolet -- Nit lexer
* Ben Bangert -- Mako lexers
* Max Battcher -- Darcs patch lexer
* Thomas Baruchel -- APL lexer
* Tim Baumann -- (Literate) Agda lexer
* Paul Baumgart, 280 North, Inc. -- Objective-J lexer
* Michael Bayer -- Myghty lexers
* Thomas Beale -- Archetype lexers
* John Benediktsson -- Factor lexer
* Trevor Bergeron -- mIRC formatter
* Vincent Bernat -- LessCSS lexer
* Christopher Bertels -- Fancy lexer
* Sébastien Bigaret -- QVT Operational lexer
* Jarrett Billingsley -- MiniD lexer
* Adam Blinkinsop -- Haskell, Redcode lexers
* Frits van Bommel -- assembler lexers
* Pierre Bourdon -- bugfixes
* chebee7i -- Python traceback lexer improvements
* Hiram Chirino -- Scaml and Jade lexers
* Ian Cooper -- VGL lexer
* David Corbett -- Inform, Jasmin, and TADS 3 lexers
* Leaf Corcoran -- MoonScript lexer
* Christopher Creutzig -- MuPAD lexer
* Daniël W. Crompton -- Pike lexer
* Pete Curry -- bugfixes
* Bryan Davis -- EBNF lexer
* Bruno Deferrari -- Shen lexer
* Giedrius Dubinskas -- HTML formatter improvements
* Owen Durni -- Haxe lexer
* Alexander Dutton, Oxford University Computing Services -- SPARQL lexer
* James Edwards -- Terraform lexer
* Nick Efford -- Python 3 lexer
* Sven Efftinge -- Xtend lexer
* Artem Egorkine -- terminal256 formatter
* Matthew Fernandez -- CAmkES lexer
* Michael Ficarra -- CPSA lexer
* James H. Fisher -- PostScript lexer
```

```
* William S. Fulton -- SWIG lexer
* Carlos Galdino -- Elixir and Elixir Console lexers
* Michael Galloy -- IDL lexer
* Naveen Garg -- Autohotkey lexer
* Laurent Gautier -- R/S lexer
* Alex Gaynor -- PyPy log lexer
* Richard Gerkin -- Igor Pro lexer
* Alain Gilbert -- TypeScript lexer
* Alex Gilding -- BlitzBasic lexer
* Bertrand Goetzmann -- Groovy lexer
* Krzysiek Goj -- Scala lexer
* Matt Good -- Genshi, Cheetah lexers
* Michał Górny -- vim modeline support
* Alex Gosse -- TrafficScript lexer
* Patrick Gotthardt -- PHP namespaces support
* Olivier Guibe -- Asymptote lexer
* Jordi Gutiérrez Hermoso -- Octave lexer
* Florian Hahn -- Boogie lexer
* Martin Harriman -- SNOBOL lexer
* Matthew Harrison -- SVG formatter
* Steven Hazel -- Tcl lexer
* Dan Michael Heggø -- Turtle lexer
* Aslak Hellesøy -- Gherkin lexer
* Greg Hendershott -- Racket lexer
* Justin Hendrick -- ParaSail lexer
* David Hess, Fish Software, Inc. -- Objective-J lexer
* Varun Hiremath -- Debian control lexer
* Rob Hoelz -- Perl 6 lexer
* Doug Hogan -- Mscgen lexer
* Ben Hollis -- Mason lexer
* Max Horn -- GAP lexer
* Alastair Houghton -- Lexer inheritance facility
* Tim Howard -- BlitzMax lexer
* Dustin Howett -- Logos lexer
* Ivan Inozemtsev -- Fantom lexer
* Hiroaki Itoh -- Shell console rewrite, Lexers for PowerShell session,
 MSDOS session, BC
* Brian R. Jackson -- Tea lexer
* Christian Jann -- ShellSession lexer
* Dennis Kaarsemaker -- sources.list lexer
* Dmitri Kabak -- Inferno Limbo lexer
* Igor Kalnitsky -- vhdl lexer
* Alexander Kit -- MaskJS lexer
* Pekka Klärck -- Robot Framework lexer
* Gerwin Klein -- Isabelle lexer
* Eric Knibbe -- Lasso lexer
* Stepan Koltsov -- Clay lexer
* Adam Koprowski -- Opa lexer
* Benjamin Kowarsch -- Modula-2 lexer
* Domen Kožar -- Nix lexer
* Oleh Krekel -- Emacs Lisp lexer
* Alexander Kriegisch -- Kconfig and AspectJ lexers
* Marek Kubica -- Scheme lexer
* Jochen Kupperschmidt -- Markdown processor
* Gerd Kurzbach -- Modelica lexer
* Jon Larimer, Google Inc. -- Smali lexer
* Olov Lassus -- Dart lexer
* Matt Layman -- TAP lexer
* Sylvestre Ledru -- Scilab lexer
* Mark Lee -- Vala lexer
* Valentin Lorentz -- C++ lexer improvements
* Ben Mabey -- Gherkin lexer
* Angus MacArthur -- QML lexer
* Louis Mandel -- X10 lexer
```

```
* Louis Marchand -- Eiffel lexer
* Simone Margaritelli -- Hybris lexer
* Kirk McDonald -- D lexer
* Gordon McGregor -- SystemVerilog lexer
* Stephen McKamey -- Duel/JBST lexer
* Brian McKenna -- F# lexer
* Charles McLaughlin -- Puppet lexer
* Lukas Meuser -- BBCode formatter, Lua lexer
* Cat Miller -- Pig lexer
* Paul Miller -- LiveScript lexer
* Hong Minhee -- HTTP lexer
* Michael Mior -- Awk lexer
* Bruce Mitchener -- Dylan lexer rewrite
* Reuben Morais -- SourcePawn lexer
* Jon Morton -- Rust lexer
* Paulo Moura -- Logtalk lexer
* Mher Movsisyan -- DTD lexer
* Dejan Muhamedagic -- Crmsh lexer
* Ana Nelson -- Ragel, ANTLR, R console lexers
* Nam T. Nguyen -- Monokai style
* Jesper Noehr -- HTML formatter "anchorlinenos"
* Mike Nolta -- Julia lexer
* Jonas Obrist -- BBCode lexer
* Edward O'Callaghan -- Cryptol lexer
* David Oliva -- Rebol lexer
* Pat Pannuto -- nesC lexer
* Jon Parise -- Protocol buffers and Thrift lexers
* Benjamin Peterson -- Test suite refactoring
* Ronny Pfannschmidt -- BBCode lexer
* Dominik Picheta -- Nimrod lexer
* Andrew Pinkham -- RTF Formatter Refactoring
* Clément Prévost -- UrbiScript lexer
* Elias Rabel -- Fortran fixed form lexer
* raichoo -- Idris lexer
* Kashif Rasul -- CUDA lexer
* Justin Reidy -- MXML lexer
* Norman Richards -- JSON lexer
* Corey Richardson -- Rust lexer updates
* Lubomir Rintel -- GoodData MAQL and CL lexers
* Andre Roberge -- Tango style
* Konrad Rudolph -- LaTeX formatter enhancements
* Mario Ruggier -- Evoque lexers
* Miikka Salminen -- Lovelace style, Hexdump lexer, lexer enhancements
* Stou Sandalski -- NumPy, FORTRAN, tcsh and XSLT lexers
* Matteo Sasso -- Common Lisp lexer
* Joe Schafer -- Ada lexer
* Ken Schutte -- Matlab lexers
* Tassilo Schweyer -- Io, MOOCode lexers
* Ted Shaw -- AutoIt lexer
* Joerg Sieker -- ABAP lexer
* Robert Simmons -- Standard ML lexer
* Kirill Simonov -- YAML lexer
* Alexander Smishlajev -- Visual FoxPro lexer
* Steve Spigarelli -- XQuery lexer
* Jerome St-Louis -- eC lexer
* James Strachan -- Kotlin lexer
* Tom Stuart -- Treetop lexer
* Colin Sullivan -- SuperCollider lexer
* Edoardo Tenani -- Arduino lexer
* Tiberius Teng -- default style overhaul
* Jeremy Thurgood -- Erlang, Squid config lexers
* Brian Tiffin -- OpenCOBOL lexer
* Bob Tolbert -- Hy lexer
* Erick Tryzelaar -- Felix lexer
```

```
* Alexander Udalov -- Kotlin lexer improvements
* Thomas Van Doren -- Chapel lexer
* Daniele Varrazzo -- PostgreSQL lexers
* Abe Voelker -- OpenEdge ABL lexer
* Pepijn de Vos -- HTML formatter CTags support
* Matthias Vallentin -- Bro lexer
* Linh Vu Hong -- RSL lexer
* Nathan Weizenbaum -- Haml and Sass lexers
* Nathan Whetsell -- Csound lexers
* Dietmar Winkler -- Modelica lexer
* Nils Winter -- Smalltalk lexer
* Davy Wybiral -- Clojure lexer
* Whitney Young -- ObjectiveC lexer
* Diego Zamboni -- CFengine3 lexer
* Enrique Zamudio -- Ceylon lexer
* Alex Zimin -- Nemerle lexer
* Rob Zimmerman -- Kal lexer
* Vincent Zurczak -- Roboconf lexer

Many thanks for all contributions!

pytest ver.2.8.7
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



pytest-cov ver.2.2.1
The MIT License

Copyright (c) 2010 Meme Dough

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



pytest-httpbin ver.0.2.0
The MIT License (MIT)

Copyright (c) 2014-2015 Kevin McCarthy

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

pytest-mock ver.0.11.0
NU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.


This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".
```

```
The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified
version:

a) under this License, provided that you make a good faith effort to
ensure that, in the event an Application does not supply the
function or data, the facility still operates, and performs
whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of
this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
```

```
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.
```

```
If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

pytz ver.2015.7
Copyright (c) 2003-2009 Stuart Bishop

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

six ver.1.10.0
Copyright (c) 2010-2015 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

snowballstemmer ver.1.2.1
License
-------

Copyright (c) 2013, Yoshiki Shibukawa

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and
the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions
and the following disclaimer in the documentation and/or other materials
 provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT HOLDER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Sphinx ver.1.3.5
License for Sphinx
==================

Copyright (c) 2007-2016 by the Sphinx team (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Licenses for incorporated software
==================================
```

```
The pgen2 package, included in this distribution under the name
sphinx.pycode.pgen2, is available in the Python 2.6 distribution under
the PSF license agreement for Python:

--------------------------------------------------------------------
Copyright © 2001-2008 Python Software Foundation; All Rights Reserved.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing
and otherwise using Python 2.6 software in source or binary form
and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display
publicly, prepare derivative works, distribute, and otherwise use
Python 2.6 alone or in any derivative version, provided, however,
that PSF's License Agreement and PSF's notice of copyright, i.e.,
"Copyright © 2001-2008 Python Software Foundation; All Rights
Reserved" are retained in Python 2.6 alone or in any derivative
version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 2.6 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary
of the changes made to Python 2.6.

4. PSF is making Python 2.6 available to Licensee on an "AS IS" basis.
PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY
WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY
PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 2.6 WILL NOT INFRINGE
ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
2.6 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON
2.6, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY
THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF
and Licensee. This License Agreement does not grant permission to
use PSF trademarks or trade name in a trademark sense to endorse or
promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python 2.6, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
--------------------------------------------------------------------

The included smartypants module, included as sphinx.util.smartypants,
is available under the following license:

--------------------------------------------------------------------
SmartyPants_ license::
```

```
Copyright (c) 2003 John Gruber
(http://daringfireball.net/)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.

* Neither the name "SmartyPants" nor the names of its
contributors may be used to endorse or promote products
derived from this software without specific prior written
permission.

This software is provided by the copyright holders and
contributors "as is" and any express or implied warranties,
including, but not limited to, the implied warranties of
merchantability and fitness for a particular purpose are
disclaimed. In no event shall the copyright owner or contributors
be liable for any direct, indirect, incidental, special,
exemplary, or consequential damages (including, but not limited
to, procurement of substitute goods or services; loss of use,
data, or profits; or business interruption) however caused and on
any theory of liability, whether in contract, strict liability, or
tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of
such damage.


smartypants.py license::

smartypants.py is a derivative work of SmartyPants.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.

This software is provided by the copyright holders and
contributors "as is" and any express or implied warranties,
including, but not limited to, the implied warranties of
merchantability and fitness for a particular purpose are
disclaimed. In no event shall the copyright owner or contributors
be liable for any direct, indirect, incidental, special,
exemplary, or consequential damages (including, but not limited
to, procurement of substitute goods or services; loss of use,
data, or profits; or business interruption) however caused and on
any theory of liability, whether in contract, strict liability, or
tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of
```

```
such damage.
-----------------------------------------------------------------------

The ElementTree package, included in this distribution in
test/etree13, is available under the following license:

-----------------------------------------------------------------------
The ElementTree toolkit is

Copyright (c) 1999-2007 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its
associated documentation, you agree that you have read, understood,
and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its
associated documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appears in all
copies, and that both that copyright notice and this permission notice
appear in supporting documentation, and that the name of Secret Labs
AB or the author not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANT- ABILITY
AND FITNESS. IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
-----------------------------------------------------------------------

The included JQuery JavaScript library is available under the MIT
license:

-----------------------------------------------------------------------
Copyright (c) 2008 John Resig, http://jquery.com/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------

The included Underscore JavaScript library is available under the MIT
license:

-----------------------------------------------------------------------
Copyright (c) 2009 Jeremy Ashkenas, DocumentCloud
```

```
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

The included implementation of
 NumpyDocstring._parse_numpydoc_see_also_section
was derived from code under the following license:

--------------------------------------------------------------------------------

Copyright (C) 2008 Stefan van der Walt , Pauli Virtanen

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

sphinx-rtd-theme ver.0.1.9
The MIT License (MIT)

Copyright (c) 2013 Dave Snider

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
```

```
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



Werkzeug ver.0.11.4
Copyright (c) 2014 by the Werkzeug Team, see AUTHORS for more details.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


wheel ver.0.29.0
"wheel" copyright (c) 2012-2014 Daniel Holth and
contributors.

The MIT License

Permission is hereby granted, free of charge, to any person obtaining a
```

```
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Apache / Component(s): SSHD 2.5.0

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Apache / Component(s): swagger-models 1.5.13

```
1. Include the copyright notice from the NOTICES file in the documentation,
 and if there is any indication that there is any material other than those
 referenced in the list of notices (see Development Restrictions), contact
 legal immediately.
2. Include prominent notice with modified files stating that such files were
 modified.
3. Include the following License ONCE in the documentation even if there are
 multiple products licensed under the license:
Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
```

```
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
     except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Apache / Component(s): swagger-models 1.5.16

```
1. Include the copyright notice from the NOTICES file in the documentation,
 and if there is any indication that there is any material other than those
```

```
 referenced in the list of notices (see Development Restrictions), contact
 legal immediately.
2. Include prominent notice with modified files stating that such files were
 modified.
3. Include the following License ONCE in the documentation even if there are
 multiple products licensed under the license:
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
  except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Apache / Component(s): swagger-models 1.5.9

```
1. Include the copyright notice from the NOTICES file in the documentation,
 and if there is any indication that there is any material other than those
 referenced in the list of notices (see Development Restrictions), contact
 legal immediately.
2. Include prominent notice with modified files stating that such files were
 modified.
3. Include the following License ONCE in the documentation even if there are
 multiple products licensed under the license:
Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
```

```
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
     except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
```

```
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Apache / Component(s): tika-1 1.21

```
TIKA License:
 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
```

```
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Tika license notice:
Apache Commons Lang
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
------------------------
```

```
slf4j license:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------
Apache-commons-collections:
 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

notice:
Apache Commons Collections
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

Provider: Apache 2.0 / Component(s): fluent-plugin-kubernetes_metadata_filter 2.10.0

```
fluent-plugin-kubernetes_metadata_filter
=========================================================
Copyright (c) 2015 jimmidyson

Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
--------------------------------------------------------------------------------
Dependent 3rd Party

kubeclient
==================================
Copyright (c) 2014 Alissa Bonas

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
http
================
MIT License

Copyright (c) 2011-2022 Tony Arcieri, Erik Michaels-Ober, Alexey V.
 Zapparov, Zachary Anker

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

addressable
========================
Copyright © Bob Aman

                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/
```

```
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
```

```
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-----------------------------------------------------------------------------------------

public_suffix
==========================
Copyright (c) 2009-2020 Simone Carletti <weppos@weppos.net>

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------------------------

domain_name
================================
Copyright (c) 2011-2017 Akinori MUSHA

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

* lib/domain_name/punycode.rb

This file is derived from the implementation of punycode available at
here:
```

```
https://www.verisign.com/en_US/channel-resources/domain-registry-products/
idn-sdks/index.xhtml

Copyright (C) 2000-2002 Verisign Inc., All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

 1) Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

 2) Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

 3) Neither the name of the VeriSign Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

This software is licensed under the BSD open source license. For more
information visit www.opensource.org.

Authors:
 John Colosi (VeriSign)
 Srikanth Veeramachaneni (VeriSign)
 Nagesh Chigurupati (Verisign)
 Praveen Srinivasan(Verisign)

* lib/domain_name/etld_data.rb

This file is generated from the Public Suffix List
(https://publicsuffix.org/), which is licensed under MPL 2.0:

https://mozilla.org/MPL/2.0/
-------------------------------------------------------------------------------------------

unf
===============
BSD-2-CLAUSE

Copyright (c) 2011, 2012 Akinori MUSHA

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
```

```
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
-------------------------------------------------------------------------------------------

unf_ext
==============
The MIT License

Copyright (c) 2010 Takeru Ohta <phjgt308@gmail.com>
Copyright (c) 2011-2018 Akinori MUSHA <knu@idaemons.org> (extended Ruby
 support)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
-------------------------------------------------------------------------------------------

http-form_data
=========================
Copyright (c) 2015-2021 Alexey V Zapparov

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

http-parser
==========
The MIT License (MIT)

Copyright (c) 2013 CoTag Media

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

ffi-compiler
===============
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2020 FFI

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------------------------------------------------------------------

ffi
=============
BSD-3-CLAUSE

Copyright (c) 2008-2016, Ruby FFI project contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the Ruby FFI project nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------

rake
========

Copyright (c) Jim Weirich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

jsonpath
==================

The MIT License (MIT)

Copyright (c) 2017 Joshua Lin & Gergely Brautigam

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-------------------------------------------------------------------------------------------

multi_json
=============
MIT License

Copyright (c) 2010-2013 Michael Bleigh, Josh Kalderimis, Erik Michaels-Ober,
 Pavel Pravosud

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

recursive-open-struct
=================
MIT License

Copyright (c) 2009-2018, The Recursive-open-struct developers (given in the
file AUTHORS.txt).

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
```

```
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

rest-client
===========

The MIT License (MIT)

Copyright (c) 2008-2014 Rest Client Authors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-------------------------------------------------------------------------------------------

http-accept
=============

Released under the MIT license.

Copyright, 2016, by Samuel G. D. Williams.
Copyright, 2016, by Matthew Kerwin.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

http-cookie
```

```
============

Copyright (c) 2013 Akinori MUSHA
Copyright (c) 2011-2012 Akinori MUSHA, Eric Hodel
Copyright (c) 2006-2011 Aaron Patterson, Mike Dalessio

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

mime-types
=====================
# Licence

- Copyright 2003-2019 Austin Ziegler and contributors.

The software in this repository is made available under the MIT license.

## MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CON
--------------------------------------------------------------------------------

mime-types-data
=========================
```

```
## Licence

- Copyright 2003-2021 Austin Ziegler and other contributors.

The software in this repository is made available under the MIT license.

### MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

netrc
==========
The MIT License (MIT)

Copyright (c) 2011-2014 Alexey Fedorov alexey.fedorov@wimdu.com
Andrew Davey as.davey@gmail.com
Avdi Grimm avdi@avdi.org
Barry Allard barry@barryallard.name
Dan Peterson dpiddy@gmail.com
Elan Ruusamäe glen@delfi.ee
Keith Rarick kr@xph.us
Nicholas E. Rabenau nerab@gmx.at
Phil Hagelberg technomancy@gmail.com
Wesley Beary geemus+github@gmail.com
Wesley Beary geemus@gmail.com
Wesley Beary wesley@heroku.com
geemus geemus@gmail.com
tiroc chaoyang.che@gmail.com

(https://github.com/geemus/netrc/blob/master/CONTRIBUTORS.md)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
```

```
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

lru_redux
===========

Copyright (c) 2013 Sam Saffron

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

Fluentd



Fluentd (Apache 2.0)
=================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2011-2018 Fluentd Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
4th party dependencies
=======================

=================
bundler
MIT Licese

Copyright (c) Chad Fowler, Rich Kilmer, Jim Weirich and others.

Portions copyright (c) Engine Yard and Andre Arko

Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the

'Software'), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY

CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE

SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================
msgpack

Copyright (c) 2008-2015 Sadayuki Furuhashi


                         Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
===========================

cool.io

MIT License

Copyright (c) 2007-10 Tony Arcieri

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
=============================================
http_parser.rb

MIT License

Copyright 2009,2010 Marc-André Cournoyer
Copyright 2010,2011 Aman Gupta

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
=============================================
serverengine

Copyright (C) 2012-2013 Sadayuki Furuhashi

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
==============================================
sigdump

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2011-2018 Fluentd Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
=======================================================
strptime

BSD-2-CLAUSE

Copyright (C) 2015 NARUSE, Yui. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
```

```
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

ext/strptime/strptime.c:
  date_strptime.c: Coded by Tadayoshi Funaba 2011,2012
  Copyright (C) 2004-2007 Koichi Sasada
==============================================================
tzinfo

MIT License

Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==================================================
concurrent-ruby

Copyright (c) Jerry D'Antonio -- released under the MIT license.

http://www.opensource.org/licenses/mit-license.php

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
============================================
tzinfo-data

MIT License

Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
====================================================
webrick

BSD-2-CLAUSE

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
================================================
yajl-ruby

The MIT License (MIT)

Copyright (c) 2014 Brian Lopez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
================================================









-----------
```

Provider: Apache 2.0 / Component(s): Terratest 0.18.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Apache Software Foundation / Component(s): HttpCore 4.4.13

```
Apache HttpComponents Core
Copyright 2005-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

============================

LICENSE: Apache 2.0
                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
```

```
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
```

```
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
---------------------------------------------------------------
```

Provider: Apache Software Foundation / Component(s): NetBeans Java 12.4

```
Apache NetBeans License and Third party licenses information

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

******* List of Third Party Components ***********
Apache NetBeans includes a number of components and libraries with separate
 copyright
notices and license terms. Your use of those components are subject to the
 terms and
conditions of the following licenses.

THIRD-PARTY COMPONENT FILE VERSION LICENSE
extide/ant/etc/ant-bootstrap.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-antlr.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-apache-bcel.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-apache-bsf.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-apache-log4j.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-apache-oro.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-apache-regexp.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-apache-resolver.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-apache-xalan2.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-commons-logging.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-commons-net.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-jai.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-javamail.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-jdepend.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-jmf.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-jsch.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-junit.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-junit4.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-launcher.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-netrexx.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-swing.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-testutil.jar 1.10.8 Apache-2.0
extide/ant/lib/ant-xz.jar 1.10.8 Apache-2.0
extide/ant/lib/ant.jar 1.10.8 Apache-2.0
extide/modules/gradle/gradle-tooling-api.jar 6.7 Apache-2.0
ide/docs/css21-spec.zip 2.1 W3C
ide/docs/css3-spec.zip 3 W3C
ide/docs/html-4.01.zip 4.01 W3C
ide/docs/html5doc.zip - HTML5DOC
ide/modules/bcpg.jar 6.7 Gradle
ide/modules/bcprov.jar 6.7 Gradle
ide/modules/com-google-gson.jar 2.8.5 Apache-2.0
ide/modules/com-jcraft-jsch.jar 6.7 Gradle
ide/modules/com-jcraft-jzlib.jar 6.7 Gradle
ide/modules/ext/ValidationAPI.jar b26b94cc001a41ab9138496b11e2ae256a159ffd
CDDL-1.0
```

```
ide/modules/ext/antlr-runtime-3.4.jar 3.4 BSD-antlr-runtime3
ide/modules/ext/antlr4-runtime-4.7.2.jar 4.7.2 BSD-antlr-runtime4
ide/modules/ext/commons-compress-1.19.jar 6.7 Gradle
ide/modules/ext/flexmark-0.50.36.jar 0.50.36 BSD-flexmark
ide/modules/ext/flexmark-html2md-converter-0.50.36.jar 0.50.36 BSD-flexmark
ide/modules/ext/flexmark-util-0.50.36.jar 0.50.36 BSD-flexmark
ide/modules/ext/freemarker-2.3.30.jar 2.3.30 Apache-2.0-freemarker
ide/modules/ext/html5-parser.jar 1.4.20190624 MIT-html5-parser
ide/modules/ext/icu4j-4_4_2.jar 4_4_2 MIT-icu4j
ide/modules/ext/json-simple-1.1.1.jar 1.1.1 Apache-2.0
ide/modules/ext/jsoup-1.11.3.jar 1.11.3 MIT-jsoup
ide/modules/ext/junixsocket-common-2.2.1.jar 2.2.1 Apache-2.0
ide/modules/ext/junixsocket-core-2.2.1.jar 2.2.1 Apache-2.0
ide/modules/ext/junixsocket-native-common-2.2.1.jar 2.2.1 Apache-2.0
ide/modules/ext/lucene-core-3.6.2.jar 3.6.2 Apache-2.0-lucene
ide/modules/ext/org.eclipse.xtend.lib-2.19.0.jar 2.19.0 EPL-v10
ide/modules/ext/org.eclipse.xtend.lib.macro-2.19.0.jar 2.19.0 EPL-v10
ide/modules/ext/org.eclipse.xtext.xbase.lib-2.19.0.jar 2.19.0 EPL-v10
ide/modules/ext/resolver-1.2.jar 1.2 Apache-2.0
ide/modules/org-apache-commons-lang.jar 6.7 Gradle
ide/modules/org-eclipse-jgit.jar 6.7 Gradle
ide/modules/slf4j-api.jar 1.7.28 MIT-slf4j
ide/modules/slf4j-jdk14.jar 1.7.28 MIT-slf4j
java/maven/boot/plexus-classworlds-2.6.0.jar 3.6.3 Apache-2.0
cdi-api-1.0.jar 3.6.3 Apache-2.0
commons-cli-1.4.jar 3.6.3 Apache-2.0
commons-io-2.5.jar 3.6.3 Apache-2.0
commons-lang3-3.8.1.jar 3.6.3 Apache-2.0
guava-25.1-android.jar 3.6.3 Apache-2.0
guice-4.2.1-no_aop.jar 3.6.3 Apache-2.0
jansi-1.17.1.jar 3.6.3 Apache-2.0
javax.inject-1.jar 3.6.3 Apache-2.0
jcl-over-slf4j-1.7.29.jar 3.6.3 Apache-2.0
jsoup-1.12.1.jar 3.6.3 Maven-MIT
maven-artifact-3.6.3.jar 3.6.3 Apache-2.0
maven-builder-support-3.6.3.jar 3.6.3 Apache-2.0
maven-compat-3.6.3.jar 3.6.3 Apache-2.0
maven-core-3.6.3.jar 3.6.3 Apache-2.0
maven-embedder-3.6.3.jar 3.6.3 Apache-2.0
maven-model-3.6.3.jar 3.6.3 Apache-2.0
maven-model-builder-3.6.3.jar 3.6.3 Apache-2.0
maven-plugin-api-3.6.3.jar 3.6.3 Apache-2.0
maven-repository-metadata-3.6.3.jar 3.6.3 Apache-2.0
maven-resolver-api-1.4.1.jar 3.6.3 Apache-2.0
maven-resolver-connector-basic-1.4.1.jar 3.6.3 Apache-2.0
maven-resolver-impl-1.4.1.jar 3.6.3 Apache-2.0
maven-resolver-provider-3.6.3.jar 3.6.3 Apache-2.0
maven-resolver-spi-1.4.1.jar 3.6.3 Apache-2.0
maven-resolver-transport-wagon-1.4.1.jar 3.6.3 Apache-2.0
maven-resolver-util-1.4.1.jar 3.6.3 Apache-2.0
maven-settings-3.6.3.jar 3.6.3 Apache-2.0
maven-settings-builder-3.6.3.jar 3.6.3 Apache-2.0
maven-shared-utils-3.2.1.jar 3.6.3 Apache-2.0
maven-slf4j-provider-3.6.3.jar 3.6.3 Apache-2.0
org.eclipse.sisu.inject-0.3.4.jar 3.6.3 Maven-EPL-v10
org.eclipse.sisu.plexus-0.3.4.jar 3.6.3 Maven-EPL-v10
plexus-cipher-1.7.jar 3.6.3 Apache-2.0
plexus-component-annotations-2.1.0.jar 3.6.3 Apache-2.0
plexus-interpolation-1.25.jar 3.6.3 Apache-2.0
plexus-sec-dispatcher-1.4.jar 3.6.3 Apache-2.0
plexus-utils-3.2.1.jar 3.6.3 Apache-2.0
slf4j-api-1.7.29.jar 3.6.3 MIT-slf4j
wagon-file-3.3.4.jar 3.6.3 Apache-2.0
wagon-http-3.3.4-shaded.jar 3.6.3 Apache-2.0
```

```
wagon-provider-api-3.3.4.jar 3.6.3 Apache-2.0
java/modules/ext/byte-buddy-1.10.6.jar 1.10.6 Apache-2.0+BSD-INRIA
java/modules/ext/commons-io-2.5.jar 3.6.3 Apache-2.0
java/modules/ext/commons-lang3-3.6.jar 2.5.3.6 Apache-2.0
java/modules/ext/maven/indexer-core-6.0.0.jar 6.0.0 Apache-2.0
java/modules/ext/maven/jdom-1.0.jar 1.0 BSD-JDOM
java/modules/ext/maven/lucene-analyzers-common-5.5.5.jar 5.5.5 Apache-2.0
java/modules/ext/maven/lucene-core-5.5.5.jar 5.5.5 Apache-2.0
java/modules/ext/maven/lucene-highlighter-5.5.5.jar 5.5.5 Apache-2.0
java/modules/ext/maven/lucene-queryparser-5.5.5.jar 5.5.5 Apache-2.0
java/modules/ext/maven/maven-dependency-tree-2.2.jar 2.2 Apache-2.0
java/modules/ext/org.eclipse.lsp4j-0.10.0.jar 0.10.0 EPL-v20
java/modules/ext/org.eclipse.lsp4j.debug-0.10.0.jar 0.10.0 EPL-v20
java/modules/ext/org.eclipse.lsp4j.generator-0.10.0.jar 0.10.0 EPL-v20
java/modules/ext/org.eclipse.lsp4j.jsonrpc-0.10.0.jar 0.10.0 EPL-v20
java/modules/ext/org.eclipse.lsp4j.jsonrpc.debug-0.10.0.jar 0.10.0 EPL-v20
java/modules/ext/org.eclipse.xtend.lib-2.19.0.jar 2.19.0 EPL-v10
java/modules/ext/org.eclipse.xtend.lib.macro-2.19.0.jar 2.19.0 EPL-v10
java/modules/ext/org.eclipse.xtext.xbase.lib-2.19.0.jar 2.19.0 EPL-v10
platform/docs/junit-4.13.1-javadoc.jar 4.13.1 EPL-v10
platform/docs/junit-4.13.1-sources.jar 4.13.1 EPL-v10
platform/docs/junit-jupiter-api-5.6.0-javadoc.jar 5.6.0 EPL-v20
platform/docs/junit-jupiter-api-5.6.0-sources.jar 5.6.0 EPL-v20
platform/docs/junit-jupiter-engine-5.6.0-javadoc.jar 5.6.0 EPL-v20
platform/docs/junit-jupiter-engine-5.6.0-sources.jar 5.6.0 EPL-v20
platform/docs/junit-jupiter-params-5.6.0-javadoc.jar 5.6.0 EPL-v20
platform/docs/junit-jupiter-params-5.6.0-sources.jar 5.6.0 EPL-v20
platform/modules/ext/batik-anim-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-awt-util-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-bridge-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-constants-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-css-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-dom-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-ext-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-gvt-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-i18n-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-parser-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-script-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-svg-dom-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-util-1.14.jar 1.14 Apache-2.0
platform/modules/ext/batik-xml-1.14.jar 1.14 Apache-2.0
platform/modules/ext/hamcrest-core-1.3.jar 1.3 BSD-hamcrest
platform/modules/ext/jna-5.4.0.jar 5.4.0 Apache-2.0
platform/modules/ext/jna-platform-5.4.0.jar 5.4.0 Apache-2.0
platform/modules/ext/junit-4.13.1.jar 4.13.1 EPL-v10
platform/modules/ext/junit-jupiter-api-5.6.0.jar 5.6.0 EPL-v20
platform/modules/ext/junit-jupiter-engine-5.6.0.jar 5.6.0 EPL-v20
platform/modules/ext/junit-jupiter-params-5.6.0.jar 5.6.0 EPL-v20
platform/modules/ext/org.apache.felix.main-6.0.3.jar 6.0.3 Apache-2.0
platform/modules/ext/osgi.cmpn-7.0.0.jar 7.0 Apache-2.0
platform/modules/ext/osgi.core-7.0.0.jar 7.0 Apache-2.0
platform/modules/ext/xml-apis-ext-1.3.04.jar 1.3.04 Apache-2.0-XML-Commons-
APIs
platform/modules/ext/xmlgraphics-commons-2.6.jar 2.6 Apache-2.0
platform/modules/net-java-html-boot-fx.jar 1.7 Apache-2.0
platform/modules/net-java-html-boot.jar 1.7 Apache-2.0
platform/modules/net-java-html-geo.jar 1.7 Apache-2.0
platform/modules/net-java-html-json.jar 1.7 Apache-2.0
platform/modules/net-java-html.jar 1.7 Apache-2.0
platform/modules/org-apache-commons-codec.jar 1.13 Apache-2.0
platform/modules/org-apache-commons-io.jar 6.7 Gradle
platform/modules/org-apache-commons-logging.jar 1.2 Apache-2.0
platform/modules/org-netbeans-html-ko4j.jar 1.7 Apache-2.0
platform/modules/org-netbeans-html-xhr4j.jar 1.7 Apache-2.0
```

```
webcommon/jsstubs/corestubs.zip 5.1 BSD-ecmascript
webcommon/jsstubs/domstubs.zip DOM3 W3C2
webcommon/jsstubs/reststubs.zip 3 W3C2
webcommon/modules/ext/icu4j-67.1.jar 67.1 MIT-icu4j
spring-boot-configuration-metadata-2.3.9.RELEASE.jar Apache 2.0
spring-boot-configuration-metadata-2.4.4.jar Apache 2.0
android-json-0.0.20131108.vaadin1.jar Apache 2.0

Third Party Files
Apache NetBeans includes a number of source files that are not covered by
 the apache
license. The following files are part of this distribution.

Sourcefile LICENSE NOTES
extide/gradle/src/org/netbeans/modules/gradle/resources/gradle-badge.png
 Gradle-icon
extide/gradle/src/org/netbeans/modules/gradle/resources/gradle-
badge_dark.png
Gradle-icon
extide/gradle/src/org/netbeans/modules/gradle/resources/gradle-large-
badge.png
Gradle-icon
extide/gradle/src/org/netbeans/modules/gradle/resources/gradle-large-
badge_dark.png
Gradle-icon
extide/gradle/src/org/netbeans/modules/gradle/resources/gradle.png Gradle-
icon
extide/gradle/src/org/netbeans/modules/gradle/resources/gradle_dark.png
 Gradle-icon
extide/options.java/src/org/netbeans/modules/options/java/resources/
java_logo.png
CC0-v10
extide/options.java/src/org/netbeans/modules/options/java/resources/
java_logo.svg
CC0-v10
ide/css.editor/src/org/netbeans/modules/css/resources/icons/chrome20-
disabled.png
CDDL-1.0
ide/css.editor/src/org/netbeans/modules/css/resources/icons/chrome20.png
 CDDL-1.0
ide/css.editor/src/org/netbeans/modules/css/resources/icons/firefox20-
disabled.png
CDDL-1.0
ide/css.editor/src/org/netbeans/modules/css/resources/icons/firefox20.png
 CDDL-1.0
ide/css.editor/src/org/netbeans/modules/css/resources/icons/ie20-
disabled.png
CDDL-1.0
ide/css.editor/src/org/netbeans/modules/css/resources/icons/ie20.png
 CDDL-1.0
ide/css.editor/src/org/netbeans/modules/css/resources/icons/opera20-
disabled.png
CDDL-1.0
ide/css.editor/src/org/netbeans/modules/css/resources/icons/opera20.png
 CDDL-1.0
ide/css.editor/src/org/netbeans/modules/css/resources/icons/safari20-
disabled.png
CDDL-1.0
ide/css.editor/src/org/netbeans/modules/css/resources/icons/safari20.png
 CDDL-1.0
ide/css.lib/src/org/netbeans/modules/css/lib/Css3.g BSD-css3-grammar
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/3_2/
html32.dtd
W3C2
```

```
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/3_2/
lat1.ent
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_0/
frameset.dtd
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_0/
loose.dtd
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_0/
strict.dtd
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_0/
HTMLlat1.ent
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_0/
HTMLspecial.ent
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_0/
HTMLsymbol.ent
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_01/
frameset.dtd
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_01/
loose.dtd
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_01/
strict.dtd
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_01/
HTMLlat1.ent
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_01/
HTMLspecial.ent
 W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/4_01/
HTMLsymbol.ent
W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/xhtml/
xhtml1-frameset
.
dtd W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/xhtml/
xhtml1-strict.d
t
d W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/xhtml/
xhtml1-transiti
o
nal.dtd W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/xhtml/
xhtml-lat1.ent
 W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/xhtml/
xhtml-special.e
n
t W3C2
ide/html.editor/src/org/netbeans/modules/html/editor/resources/DTDs/xhtml/
xhtml-symbol.en
t
 W3C2
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_chrome_16x.
```

```
p
ng CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_chrome_24x.
p
ng CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_chromium_16
x
.png CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_chromium_24
x
.png CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_edge_16x.pn
g
 CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_edge_24x.pn
g
 CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_firefox_16x
.
png CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_firefox_24x
.
png CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_ie_16x.png
 CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_ie_24x.png
 CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_opera_16x.p
n
g CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_opera_24x.p
n
g CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_safari_16x.
p
ng CDDL-1.0
ide/web.browser.api/src/org/netbeans/modules/web/browser/ui/resources/
browser_safari_24x.
p
ng CDDL-1.0
ide/xml.catalog/src/org/netbeans/modules/xml/catalog/resources/Transform.xsd
 W3C2
ide/xml.catalog/src/org/netbeans/modules/xml/catalog/resources/
XMLNamespace.xsd W3C2
ide/xml.catalog/src/org/netbeans/modules/xml/catalog/resources/XMLSchema-
instance.xsd
W3C2
ide/xml.catalog/src/org/netbeans/modules/xml/catalog/resources/XMLSchema.dtd
 W3C2
ide/xml.catalog/src/org/netbeans/modules/xml/catalog/resources/XMLSchema.xsd
 W3C2
```

```
ide/xml.catalog/src/org/netbeans/modules/xml/catalog/resources/datatypes.dtd
 W3C2
java/gradle.java/src/org/netbeans/modules/gradle/java/resources/
javaseProjectIcon.png
Gradle-icon
java/gradle.java/src/org/netbeans/modules/gradle/java/resources/
javaseProjectIcon_dark.pn
g
 Gradle-icon
java/java.lsp.server/vscode/package-lock.json MIT-vscode-ext
java/java.lsp.server/vscode/package.json MIT-vscode-ext
java/java.lsp.server/vscode/tsconfig.json MIT-vscode-ext
java/java.lsp.server/vscode/src/extension.ts MIT-vscode-ext
java/junit.ui/src/org/netbeans/modules/junit/ui/resources/junit5-logo.png
 EPL-v20

************* Third Party Components Licenses ****************

******************************************************************************
Apache-2.0-XML-Commons-APIs
======================  Parts of this work are licensed:
 ======================

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

  Same as listed above
======================  Parts of this work are licensed:
 ======================

W3C® SOFTWARE NOTICE AND LICENSE
Copyright © 2004 World Wide Web Consortium, (Massachusetts Institute of
 Technology,
European Research Consortium for Informatics and Mathematics, Keio
 University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and
License. The software license requires "Notice of any changes or
 modifications
to the W3C files, including the date changes were made." Consequently,
 modified
versions of the DOM bindings must document that they do not conform to the
 W3C
standard; in the case of the IDL definitions, the pragma prefix can no
 longer
be 'w3c.org'; in the case of the Java language binding, the package names
 can no
longer be in the 'org.w3c' package.

Note: The original version of the W3C Software Copyright Notice and License
 could
be found at http://www.w3.org/Consortium/Legal/2002/copyright-
software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the
 following
license. By obtaining, using and/or copying this work, you (the licensee)
 agree
that you have read, understood, and will comply with the following terms and
conditions.
```

```
Permission to copy, modify, and distribute this software and its
 documentation,
with or without modification, for any purpose and without fee or royalty is
hereby granted, provided that you include the following on ALL copies of the
software and documentation or portions thereof, including modifications:

  1. The full text of this NOTICE in a location viewable to users of the
     redistributed or derivative work.
  2. Any pre-existing intellectual property disclaimers, notices, or terms
     and conditions. If none exist, the W3C Software Short Notice should be
     included (hypertext is preferred, text is permitted) within the body
     of any redistributed or derivative code.
  3. Notice of any changes or modifications to the files, including the date
     changes were made. (We recommend you provide URIs to the location from
     which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS
 MAKE
NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT
 LIMITED
TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR
 THAT
THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY
PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR
 DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising
 or
publicity pertaining to the software without specific, written prior
 permission.
Title to copyright in this software and any associated documentation will at
all times remain with copyright holders.
============================================================================
W3C SOFTWARE NOTICE AND LICENSE
http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the
 following
license. By obtaining, using and/or copying this work, you (the licensee)
 agree
that you have read, understood, and will comply with the following terms and
conditions.

Permission to copy, modify, and distribute this software and its
 documentation,
with or without modification, for any purpose and without fee or royalty is
hereby granted, provided that you include the following on ALL copies of the
software and documentation or portions thereof, including modifications:

  1. The full text of this NOTICE in a location viewable to users of the
     redistributed or derivative work.
  2. Any pre-existing intellectual property disclaimers, notices, or terms
     and conditions. If none exist, the W3C Software Short Notice should be
     included (hypertext is preferred, text is permitted) within the body
     of any redistributed or derivative code.
  3. Notice of any changes or modifications to the files, including the date
     changes were made. (We recommend you provide URIs to the location from
     which the code is derived.)
```

```
THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS
 MAKE
NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT
 LIMITED
TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR
 THAT
THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY
PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR
 DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising
 or
publicity pertaining to the software without specific, written prior
 permission.
Title to copyright in this software and any associated documentation will at
all times remain with copyright holders.


______________________________________

This formulation of W3C's notice and license became active on December 31
 2002.
This version removes the copyright ownership notice such that this license
 can
be used with materials other than those owned by the W3C, reflects that
 ERCIM
is now a host of the W3C, includes references to this specific dated version
 of
the license, and removes the ambiguous grant of "use". Otherwise, this
 version
is the same as the previous version and is written so as to preserve the
 Free
Software Foundation's assessment of GPL compatibility and OSI's
 certification
under the Open Source Definition. Please see our Copyright FAQ for common
questions about using materials from our site, including specific terms and
conditions for packages like libwww, Amaya, and Jigsaw. Other questions
 about
this notice can be directed to site-policy@w3.org.

Joseph Reagle

This license came from: http://www.megginson.com/SAX/copying.html
  However please note future versions of SAX may be covered
  under http://saxproject.org/?selected=pd

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for
XML), and release all of the SAX 2.0 source code, compiled code, and
documentation contained in this distribution into the Public Domain.
SAX comes with NO WARRANTY or guarantee of fitness for any
purpose.

David Megginson, david@megginson.com
2000-05-05

==========================================================================
Apache-2.0-freemarker

                                Apache License
                           Version 2.0, January 2004
```

```
                          http://www.apache.org/licenses/
as listed above



The source code contains the following binaries,
which were created at the Apache FreeMarker project, and hence are
covered by the same license as the other source files of it:

  src/main/misc/overloadedNumberRules/prices.ods
  src/manual/en_US/docgen-originals/figures/overview.odg
  src/manual/en_US/docgen-originals/figures/model2sketch_with_alpha.png
  src/manual/en_US/docgen-originals/figures/tree_with_alpha.png
  src/manual/en_US/favicon.png
  src/manual/en_US/figures/model2sketch.png
  src/manual/en_US/figures/overview.png
  src/manual/en_US/figures/tree.png
  src/manual/en_US/logo.png
  src/manual/zh_CN/favicon.png
  src/manual/zh_CN/figures/model2sketch.png
  src/manual/zh_CN/figures/overview.png
  src/manual/zh_CN/figures/tree.png
  src/manual/zh_CN/logo.png
==============================================================================

Apache-2.0-lucene
                                 Apache License
                            Version 2.0, January 2004
                          http://www.apache.org/licenses/
as listed above



Some code in src/java/org/apache/lucene/util/UnicodeUtil.java was
derived from unicode conversion examples available at
http://www.unicode.org/Public/PROGRAMS/CVTUTF.  Here is the copyright
from those sources:

/*
 * Copyright 2001-2004 Unicode, Inc.
 *
 * Disclaimer
 *
 * This source code is provided as is by Unicode, Inc. No claims are
 * made as to fitness for any particular purpose. No warranties of any
 * kind are expressed or implied. The recipient agrees to determine
 * applicability of information provided. If this file has been
 * purchased on magnetic or optical media from Unicode, Inc., the
 * sole remedy for any claim will be exchange of defective media
 * within 90 days of receipt.
 *
 * Limitations on Rights to Redistribute This Code
 *
 * Unicode, Inc. hereby grants the right to freely use the information
 * supplied in this file in the creation of products supporting the
 * Unicode Standard, and to make copies of this file in any form
 * for internal or external distribution as long as this notice
 * remains attached.
 */


Some code in src/java/org/apache/lucene/util/ArrayUtil.java was
derived from Python 2.4.2 sources available at
http://www.python.org. Full license is here:
```

```
  http://www.python.org/download/releases/2.4.2/license/


Some code in src/java/org/apache/lucene/util/UnicodeUtil.java was
derived from ICU (http://www.icu-project.org)
The full license is available here:
  http://source.icu-project.org/repos/icu/icu/trunk/license.html

/*
 * Copyright (C) 1999-2010, International Business Machines
 * Corporation and others.  All Rights Reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 copy
 * of this software and associated documentation files (the "Software"), to
 deal
 * in the Software without restriction, including without limitation the
 rights
 * to use, copy, modify, merge, publish, distribute, and/or sell copies of
 the
 * Software, and to permit persons to whom the Software is furnished to do
 so,
 * provided that the above copyright notice(s) and this permission notice
 appear
 * in all copies of the Software and that both the above copyright notice(s)
 and
 * this permission notice appear in supporting documentation.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY
 RIGHTS.
 * IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE
 BE
 * LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES,
 OR
 * ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
 WHETHER
 * IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING
 OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 *
 * Except as contained in this notice, the name of a copyright holder shall
 not
 * be used in advertising or otherwise to promote the sale, use or other
 * dealings in this Software without prior written authorization of the
 * copyright holder.
 */

The following license applies to the Snowball stemmers:

Copyright (c) 2001, Dr Martin Porter
Copyright (c) 2002, Richard Boulton
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
    * this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
    * notice, this list of conditions and the following disclaimer in the
```

```
    * documentation and/or other materials provided with the distribution.
    * Neither the name of the copyright holders nor the names of its
 contributors
    * may be used to endorse or promote products derived from this software
    * without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
==============================================================================
The following license applies to the KStemmer:

Copyright © 2003,
Center for Intelligent Information Retrieval,
University of Massachusetts, Amherst.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. The names "Center for Intelligent Information Retrieval" and
"University of Massachusetts" must not be used to endorse or promote
 products
derived from this software without prior written permission. To obtain
permission, contact info@ciir.cs.umass.edu.

THIS SOFTWARE IS PROVIDED BY UNIVERSITY OF MASSACHUSETTS AND OTHER
 CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
==============================================================================
BSD-JDOM
Copyright (C) 2000-2004 Jason Hunter & Brett McLaughlin.
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions, and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions, and the disclaimer that follows
   these conditions in the documentation and/or other materials
   provided with the distribution.

3. The name "JDOM" must not be used to endorse or promote products
   derived from this software without prior written permission.  For
   written permission, please contact .

4. Products derived from this software may not be called "JDOM", nor
   may "JDOM" appear in their name, without prior written permission
   from the JDOM Project Management .

In addition, we request (but do not require) that you include in the
end-user documentation provided with the redistribution and/or in the
software itself an acknowledgement equivalent to the following:
    "This product includes software developed by the
     JDOM Project (http://www.jdom.org/)."
Alternatively, the acknowledgment may be graphical using the logos
available at http://www.jdom.org/images/logos.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE JDOM AUTHORS OR THE PROJECT
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

This software consists of voluntary contributions made by many
individuals on behalf of the JDOM Project and was originally
created by Jason Hunter  and
Brett McLaughlin .  For more information
on the JDOM Project, please see .
==============================================================================
BSD-antlr-runtime3
Use of Antlr version 3.4 is governed by the terms of the license below:

 [The "BSD license"]
 Copyright (c) 2010 Terence Parr
 Maven Plugin - Copyright (c) 2009      Jim Idle

 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
```

```
    documentation and/or other materials provided with the distribution.
 3. The name of the author may not be used to endorse or promote products
    derived from this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


==============================================================================

BSD-antlr-runtime4
Use of Antlr version 4.7.2 is governed by the terms of the license below:

 [The "BSD license"]
Copyright (c) 2015 Terence Parr, Sam Harwell
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. The name of the author may not be used to endorse or promote products
    derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
==============================================================================
BSD-css3-grammar
Copyright (c) 2009, Jim Idle, Temporal Wave LLC.
Copyright (c) 2018, Apache Software Foundation (ASF)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
3. Neither the name of __COPYRIGHT_OWNER__ nor the names
```

```
   of __PRONOUN__ contributors may be used to endorse or promote products
 derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
==============================================================================
BSD-ecmascript
Software License

All Software contained in this document ("Software)" is protected by
copyright and is being made available under the "BSD License", included
below. This Software may be subject to third party rights (rights from
parties other than Ecma International), including patent rights, and no
licenses under such third party rights are granted under this license even
if the third party concerned is a member of Ecma International. SEE THE
ECMA CODE OF CONDUCT IN PATENT MATTERS AVAILABLE AT
http://www.ecma-international.org/memento/codeofconduct.htm FOR INFORMATION
REGARDING THE LICENSING OF PATENT CLAIMS THAT ARE REQUIRED TO IMPLEMENT
ECMA INTERNATIONAL STANDARDS*.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of the authors nor Ecma International may be used
to endorse or promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE ECMA INTERNATIONAL "AS IS" AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
NO EVENT SHALL ECMA INTERNATIONAL BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==============================================================================
BSD-flexmark
Copyright (c) 2015-2016, Atlassian Pty Ltd
All rights reserved.

Copyright (c) 2016-2018, Vladimir Schneider,
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
==============================================================================
BSD-hamcrest
Copyright (c) 2000-2015 www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list
of conditions and the following disclaimer. Redistributions in binary form
 must
reproduce the above copyright notice, this list of conditions and the
 following
disclaimer in the documentation and/or other materials provided with the
distribution.

Neither the name of Hamcrest nor the names of its contributors may be used
 to
endorse or promote products derived from this software without specific
 prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
==============================================================================
CC0-v10
```

```
Creative Commons

CC0 1.0 Universal

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
exclusive Copyright and Related Rights (defined below) upon the creator and
subsequent owner(s) (each and all, an "owner") of an original work of
 authorship
 and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the
purpose of contributing to a commons of creative, cultural and scientific
 works
("Commons") that the public can reliably and without fear of later claims of
infringement build upon, modify, incorporate in other works, reuse and
redistribute as freely as possible in any form whatsoever and for any
 purposes,
including without limitation commercial purposes. These owners may
 contribute to
the Commons to promote the ideal of a free culture and the further
 production of
creative, cultural and scientific works, or to gain reputation or greater
distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of
additional consideration or compensation, the person associating CC0 with a
Work (the "Affirmer"), to the extent that he or she is an owner of Copyright
 and
Related Rights in the Work, voluntarily elects to apply CC0 to the Work and
publicly distribute the Work under its terms, with knowledge of his or her
Copyright and Related Rights in the Work and the meaning and intended legal
effect of CC0 on those rights.

1. Copyright and Related Rights.

A Work made available under CC0 may be protected by copyright and related or
neighboring rights ("Copyright and Related Rights"). Copyright and Related
Rights include, but are not limited to, the following:

    i. the right to reproduce, adapt, distribute, perform, display,
 communicate,
       and translate a Work;
   ii. moral rights retained by the original author(s) and/or performer(s);
  iii. publicity and privacy rights pertaining to a person's image or
 likeness
       depicted in a Work;
   iv. rights protecting against unfair competition in regards to a Work,
       subject to the limitations in paragraph 4(a), below;
    v. rights protecting the extraction, dissemination, use and reuse of
 data
       in a Work;
   vi. database rights (such as those arising under Directive 96/9/EC of the
       European Parliament and of the Council of 11 March 1996 on the legal
       protection of databases, and under any national implementation
 thereof,
       including any amended or successor version of such directive); and
       other similar, equivalent or corresponding rights throughout the
 world
       based on applicable law or treaty, and any national implementations
       thereof.
```

```
2. Waiver.

To the greatest extent permitted by, but not in contravention of, applicable
law, Affirmer hereby overtly, fully, permanently, irrevocably and
unconditionally waives, abandons, and surrenders all of Affirmer's Copyright
 and
Related Rights and associated claims and causes of action, whether now known
 or
unknown (including existing as well as future claims and causes of action),
 in
the Work (i) in all territories worldwide, (ii) for the maximum duration
provided by applicable law or treaty (including future time extensions),
(iii) in any current or future medium and for any number of copies, and
(iv) for any purpose whatsoever, including without limitation commercial,
advertising or promotional purposes (the "Waiver"). Affirmer makes the
 Waiver
for the benefit of each member of the public at large and to the detriment
 of
Affirmer's heirs and successors, fully intending that such Waiver shall not
 be
subject to revocation, rescission, cancellation, termination, or any other
legal or equitable action to disrupt the quiet enjoyment of the Work by the
public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback.

Should any part of the Waiver for any reason be judged legally invalid or
ineffective under applicable law, then the Waiver shall be preserved to the
maximum extent permitted taking into account Affirmer's express Statement of
Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby
grants to each affected person a royalty-free, non transferable, non
sublicensable, non exclusive, irrevocable and unconditional license to
 exercise
Affirmer's Copyright and Related Rights in the Work (i) in all territories
worldwide, (ii) for the maximum duration provided by applicable law or
 treaty
(including future time extensions), (iii) in any current or future medium
 and
for any number of copies, and (iv) for any purpose whatsoever, including
 without
limitation commercial, advertising or promotional purposes (the "License").
The License shall be deemed effective as of the date CC0 was applied by
 Affirmer
to the Work. Should any part of the License for any reason be judged legally
invalid or ineffective under applicable law, such partial invalidity or
ineffectiveness shall not invalidate the remainder of the License, and in
 such
case Affirmer hereby affirms that he or she will not (i) exercise any of his
 or
her remaining Copyright and Related Rights in the Work or (ii) assert any
associated claims and causes of action with respect to the Work, in either
 case
contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

    a. No trademark or patent rights held by Affirmer are waived, abandoned,
       surrendered, licensed or otherwise affected by this document.
    b. Affirmer offers the Work as-is and makes no representations or
 warranties
       of any kind concerning the Work, express, implied, statutory or
       otherwise, including without limitation warranties of title,
       merchantability, fitness for a particular purpose, non infringement,
 or
```

```
       the absence of latent or other defects, accuracy, or the present or
       absence of errors, whether or not discoverable, all to the greatest
       extent permissible under applicable law.
    c. Affirmer disclaims responsibility for clearing rights of other
 persons
       that may apply to the Work or any use thereof, including without
       limitation any person's Copyright and Related Rights in the Work.
       Further, Affirmer disclaims responsibility for obtaining any
 necessary
       consents, permissions or other rights required for any use of the
 Work.
    d. Affirmer understands and acknowledges that Creative Commons is not a
       party to this document and has no duty or obligation with respect to
 this
       CC0 or use of the Work.
==============================================================================
CDDL-1.0
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. "Contributor" means each individual or entity that
creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the
Original Software, prior Modifications used by a
Contributor (if any), and the Modifications made by that
particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or
(b) Modifications, or (c) the combination of files
containing Original Software with files containing
Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form
other than Source Code.

1.5. "Initial Developer" means the individual or entity
that first makes Original Software available under this
License.

1.6. "Larger Work" means a work which combines Covered
Software or portions thereof with code not governed by the
terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the
maximum extent possible, whether at the time of the initial
grant or subsequently acquired, any and all of the rights
conveyed herein.

1.9. "Modifications" means the Source Code and Executable
form of any of the following:

A. Any file that results from an addition to,
deletion from or modification of the contents of a
file containing Original Software or previous
Modifications;

B. Any new file that contains any part of the
Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made
```

```
available under the terms of this License.

1.10. "Original Software" means the Source Code and
Executable form of computer software code that is
originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned
or hereafter acquired, including without limitation,
method, process, and apparatus claims, in any patent
Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer
software code in which modifications are made and (b)
associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal
entity exercising rights under, and complying with all of
the terms of, this License. For legal entities, "You"
includes any entity which controls, is controlled by, or is
under common control with You. For purposes of this
definition, "control" means (a) the power, direct or
indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (b) ownership
of more than fifty percent (50%) of the outstanding shares
or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and
subject to third party intellectual property claims, the
Initial Developer hereby grants You a world-wide,
royalty-free, non-exclusive license:

(a) under intellectual property rights (other than
patent or trademark) Licensable by Initial Developer,
to use, reproduce, modify, display, perform,
sublicense and distribute the Original Software (or
portions thereof), with or without Modifications,
and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making,
using or selling of Original Software, to make, have
made, use, practice, sell, and offer for sale, and/or
otherwise dispose of the Original Software (or
portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b)
are effective on the date Initial Developer first
distributes or otherwise makes the Original Software
available to a third party under the terms of this
License.

(d) Notwithstanding Section 2.1(b) above, no patent
license is granted: (1) for code that You delete from
the Original Software, or (2) for infringements
caused by: (i) the modification of the Original
Software, or (ii) the combination of the Original
Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and
```

```
subject to third party intellectual property claims, each
Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than
patent or trademark) Licensable by Contributor to
use, reproduce, modify, display, perform, sublicense
and distribute the Modifications created by such
Contributor (or portions thereof), either on an
unmodified basis, with other Modifications, as
Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making,
using, or selling of Modifications made by that
Contributor either alone and/or in combination with
its Contributor Version (or portions of such
combination), to make, use, sell, offer for sale,
have made, and/or otherwise dispose of: (1)
Modifications made by that Contributor (or portions
thereof); and (2) the combination of Modifications
made by that Contributor with its Contributor Version
(or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and
2.2(b) are effective on the date Contributor first
distributes or otherwise makes the Modifications
available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent
license is granted: (1) for any code that Contributor
has deleted from the Contributor Version; (2) for
infringements caused by: (i) third party
modifications of Contributor Version, or (ii) the
combination of Modifications made by that Contributor
with other software (except as part of the
Contributor Version) or other devices; or (3) under
Patent Claims infringed by Covered Software in the
absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make
available in Executable form must also be made available in
Source Code form and that Source Code form must be
distributed only under the terms of this License. You must
include a copy of this License with every copy of the
Source Code form of the Covered Software You distribute or
otherwise make available. You must inform recipients of any
such Covered Software in Executable form as to how they can
obtain such Covered Software in Source Code form in a
reasonable manner on or through a medium customarily used
for software exchange.

3.2. Modifications.

The Modifications that You create or to which You
contribute are governed by the terms of this License. You
represent that You believe Your Modifications are Your
original creation(s) and/or You have sufficient rights to
grant the rights conveyed by this License.

3.3. Required Notices.
```

```
You must include a notice in each of Your Modifications
that identifies You as the Contributor of the Modification.
You may not remove or alter any copyright, patent or
trademark notices contained within the Covered Software, or
any notices of licensing or any descriptive text giving
attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered
Software in Source Code form that alters or restricts the
applicable version of this License or the recipients'
rights hereunder. You may choose to offer, and to charge a
fee for, warranty, support, indemnity or liability
obligations to one or more recipients of Covered Software.
However, you may do so only on Your own behalf, and not on
behalf of the Initial Developer or any Contributor. You
must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by
You alone, and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred
by the Initial Developer or such Contributor as a result of
warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered
Software under the terms of this License or under the terms
of a license of Your choice, which may contain terms
different from this License, provided that You are in
compliance with the terms of this License and that the
license for the Executable form does not attempt to limit
or alter the recipient's rights in the Source Code form
from the rights set forth in this License. If You
distribute the Covered Software in Executable form under a
different license, You must make it absolutely clear that
any terms which differ from this License are offered by You
alone, not by the Initial Developer or Contributor. You
hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of any such terms
You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software
with other code not governed by the terms of this License
and distribute the Larger Work as a single product. In such
a case, You must make sure the requirements of this License
are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and
may publish revised and/or new versions of this License
from time to time. Each version will be given a
distinguishing version number. Except as provided in
Section 4.3, no one other than the license steward has the
right to modify this License.

4.2. Effect of New Versions.
```

```
You may always continue to use, distribute or otherwise
make the Covered Software available under the terms of the
version of the License under which You originally received
the Covered Software. If the Initial Developer includes a
notice in the Original Software prohibiting it from being
distributed or otherwise made available under any
subsequent version of the License, You must distribute and
make the Covered Software available under the terms of the
version of the License under which You originally received
the Covered Software. Otherwise, You may also choose to
use, distribute or otherwise make the Covered Software
available under the terms of any subsequent version of the
License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a
new license for Your Original Software, You may create and
use a modified version of this License if You: (a) rename
the license and remove any references to the name of the
license steward (except to note that the license differs
from this License); and (b) otherwise make it clear that
the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS"
BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED
SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR
PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY
COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE
INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF
ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF
WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF
ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS
DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will
terminate automatically if You fail to comply with terms
herein and fail to cure such breach within 30 days of
becoming aware of the breach. Provisions which, by their
nature, must remain in effect beyond the termination of
this License shall survive.

6.2. If You assert a patent infringement claim (excluding
declaratory judgment actions) against Initial Developer or
a Contributor (the Initial Developer or Contributor against
whom You assert such claim is referred to as "Participant")
alleging that the Participant Software (meaning the
Contributor Version where the Participant is a Contributor
or the Original Software where the Participant is the
Initial Developer) directly or indirectly infringes any
patent, then any and all rights granted directly or
indirectly to You by such Participant, the Initial
Developer (if the Initial Developer is not the Participant)
and all Contributors under Sections 2.1 and/or 2.2 of this
License shall, upon 60 days notice from Participant
terminate prospectively and automatically at the expiration
of such 60 day notice period, unless if within such 60 day
```

```
period You withdraw Your claim with respect to the
Participant Software against such Participant either
unilaterally or pursuant to a written agreement with
Participant.

6.3. In the event of termination under Sections 6.1 or 6.2
above, all end user licenses that have been validly granted
by You or any distributor hereunder prior to termination
(excluding licenses granted to You by any distributor)
shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
(INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE
LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK
STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN
INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF
LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL
INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT
APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO
NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR
CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT
APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is
defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial
computer software" (as that term is defined at 48 C.F.R.
252.227-7014(a)(1)) and "commercial computer software
documentation" as such terms are used in 48 C.F.R. 12.212 (Sept.
1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
through 227.7202-4 (June 1995), all U.S. Government End Users
acquire Covered Software with only those rights set forth herein.
This U.S. Government Rights clause is in lieu of, and supersedes,
any other FAR, DFAR, or other clause or provision that addresses
Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the
extent necessary to make it enforceable. This License shall be
governed by the law of the jurisdiction specified in a notice
contained within the Original Software (except to the extent
applicable law, if any, provides otherwise), excluding such
jurisdiction's conflict-of-law provisions. Any litigation
relating to this License shall be subject to the jurisdiction of
the courts located in the jurisdiction and venue specified in a
notice contained within the Original Software, with the losing
party responsible for costs, including, without limitation, court
costs and reasonable attorneys' fees and expenses. The
application of the United Nations Convention on Contracts for the
International Sale of Goods is expressly excluded. Any law or
regulation which provides that the language of a contract shall
be construed against the drafter shall not apply to this License.
You agree that You alone are responsible for compliance with the
```

```
United States export administration regulations (and the export
control laws and regulation of any other countries) when You use,
distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is
responsible for claims and damages arising, directly or
indirectly, out of its utilization of rights under this License
and You agree to work with Initial Developer and Contributors to
distribute such responsibility on an equitable basis. Nothing
herein is intended or shall be deemed to constitute any admission
of liability.
==============================================================================
CDDL-1.1
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

1. Definitions.

1.1. "Contributor" means each individual or entity that
creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the
Original Software, prior Modifications used by a
Contributor (if any), and the Modifications made by that
particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or
(b) Modifications, or (c) the combination of files
containing Original Software with files containing
Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form
other than Source Code.

1.5. "Initial Developer" means the individual or entity
that first makes Original Software available under this
License.

1.6. "Larger Work" means a work which combines Covered
Software or portions thereof with code not governed by the
terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the
maximum extent possible, whether at the time of the initial
grant or subsequently acquired, any and all of the rights
conveyed herein.

1.9. "Modifications" means the Source Code and Executable
form of any of the following:

A. Any file that results from an addition to,
deletion from or modification of the contents of a
file containing Original Software or previous
Modifications;

B. Any new file that contains any part of the
Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made
available under the terms of this License.
```

```
1.10. "Original Software" means the Source Code and
Executable form of computer software code that is
originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned
or hereafter acquired, including without limitation,
method, process, and apparatus claims, in any patent
Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer
software code in which modifications are made and (b)
associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal
entity exercising rights under, and complying with all of
the terms of, this License. For legal entities, "You"
includes any entity which controls, is controlled by, or is
under common control with You. For purposes of this
definition, "control" means (a) the power, direct or
indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (b) ownership
of more than fifty percent (50%) of the outstanding shares
or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and
subject to third party intellectual property claims, the
Initial Developer hereby grants You a world-wide,
royalty-free, non-exclusive license:

(a) under intellectual property rights (other than
patent or trademark) Licensable by Initial Developer,
to use, reproduce, modify, display, perform,
sublicense and distribute the Original Software (or
portions thereof), with or without Modifications,
and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making,
using or selling of Original Software, to make, have
made, use, practice, sell, and offer for sale, and/or
otherwise dispose of the Original Software (or
portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b)
are effective on the date Initial Developer first
distributes or otherwise makes the Original Software
available to a third party under the terms of this
License.

(d) Notwithstanding Section 2.1(b) above, no patent
license is granted: (1) for code that You delete from
the Original Software, or (2) for infringements
caused by: (i) the modification of the Original
Software, or (ii) the combination of the Original
Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and
subject to third party intellectual property claims, each
Contributor hereby grants You a world-wide, royalty-free,
```

```
non-exclusive license:

(a) under intellectual property rights (other than
patent or trademark) Licensable by Contributor to
use, reproduce, modify, display, perform, sublicense
and distribute the Modifications created by such
Contributor (or portions thereof), either on an
unmodified basis, with other Modifications, as
Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making,
using, or selling of Modifications made by that
Contributor either alone and/or in combination with
its Contributor Version (or portions of such
combination), to make, use, sell, offer for sale,
have made, and/or otherwise dispose of: (1)
Modifications made by that Contributor (or portions
thereof); and (2) the combination of Modifications
made by that Contributor with its Contributor Version
(or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and
2.2(b) are effective on the date Contributor first
distributes or otherwise makes the Modifications
available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent
license is granted: (1) for any code that Contributor
has deleted from the Contributor Version; (2) for
infringements caused by: (i) third party
modifications of Contributor Version, or (ii) the
combination of Modifications made by that Contributor
with other software (except as part of the
Contributor Version) or other devices; or (3) under
Patent Claims infringed by Covered Software in the
absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make
available in Executable form must also be made available in
Source Code form and that Source Code form must be
distributed only under the terms of this License. You must
include a copy of this License with every copy of the
Source Code form of the Covered Software You distribute or
otherwise make available. You must inform recipients of any
such Covered Software in Executable form as to how they can
obtain such Covered Software in Source Code form in a
reasonable manner on or through a medium customarily used
for software exchange.

3.2. Modifications.

The Modifications that You create or to which You
contribute are governed by the terms of this License. You
represent that You believe Your Modifications are Your
original creation(s) and/or You have sufficient rights to
grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications
```

```
that identifies You as the Contributor of the Modification.
You may not remove or alter any copyright, patent or
trademark notices contained within the Covered Software, or
any notices of licensing or any descriptive text giving
attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered
Software in Source Code form that alters or restricts the
applicable version of this License or the recipients'
rights hereunder. You may choose to offer, and to charge a
fee for, warranty, support, indemnity or liability
obligations to one or more recipients of Covered Software.
However, you may do so only on Your own behalf, and not on
behalf of the Initial Developer or any Contributor. You
must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by
You alone, and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred
by the Initial Developer or such Contributor as a result of
warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered
Software under the terms of this License or under the terms
of a license of Your choice, which may contain terms
different from this License, provided that You are in
compliance with the terms of this License and that the
license for the Executable form does not attempt to limit
or alter the recipient's rights in the Source Code form
from the rights set forth in this License. If You
distribute the Covered Software in Executable form under a
different license, You must make it absolutely clear that
any terms which differ from this License are offered by You
alone, not by the Initial Developer or Contributor. You
hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of any such terms
You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software
with other code not governed by the terms of this License
and distribute the Larger Work as a single product. In such
a case, You must make sure the requirements of this License
are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and
may publish revised and/or new versions of this License
from time to time. Each version will be given a
distinguishing version number. Except as provided in
Section 4.3, no one other than the license steward has the
right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise
```

```
make the Covered Software available under the terms of the
version of the License under which You originally received
the Covered Software. If the Initial Developer includes a
notice in the Original Software prohibiting it from being
distributed or otherwise made available under any
subsequent version of the License, You must distribute and
make the Covered Software available under the terms of the
version of the License under which You originally received
the Covered Software. Otherwise, You may also choose to
use, distribute or otherwise make the Covered Software
available under the terms of any subsequent version of the
License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a
new license for Your Original Software, You may create and
use a modified version of this License if You: (a) rename
the license and remove any references to the name of the
license steward (except to note that the license differs
from this License); and (b) otherwise make it clear that
the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS"
BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED
SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR
PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY
COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE
INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF
ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF
WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF
ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS
DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will
terminate automatically if You fail to comply with terms
herein and fail to cure such breach within 30 days of
becoming aware of the breach. Provisions which, by their
nature, must remain in effect beyond the termination of
this License shall survive.

6.2. If You assert a patent infringement claim (excluding
declaratory judgment actions) against Initial Developer or
a Contributor (the Initial Developer or Contributor against
whom You assert such claim is referred to as "Participant")
alleging that the Participant Software (meaning the
Contributor Version where the Participant is a Contributor
or the Original Software where the Participant is the
Initial Developer) directly or indirectly infringes any
patent, then any and all rights granted directly or
indirectly to You by such Participant, the Initial
Developer (if the Initial Developer is not the Participant)
and all Contributors under Sections 2.1 and/or 2.2 of this
License shall, upon 60 days notice from Participant
terminate prospectively and automatically at the expiration
of such 60 day notice period, unless if within such 60 day
period You withdraw Your claim with respect to the
Participant Software against such Participant either
```

```
unilaterally or pursuant to a written agreement with
Participant.

6.3. If You assert a patent infringement claim against
Participant alleging that the Participant Software directly
or indirectly infringes any patent where such claim is
resolved (such as by license or settlement) prior to the
initiation of patent infringement litigation, then the
reasonable value of the licenses granted by such Participant
under Sections 2.1 or 2.2 shall be taken into account in
determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2
above, all end user licenses that have been validly granted
by You or any distributor hereunder prior to termination
(excluding licenses granted to You by any distributor)
shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
(INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE
LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK
STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN
INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF
LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL
INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT
APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO
NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR
CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT
APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is
defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial
computer software" (as that term is defined at 48 C.F.R.
Â§ 252.227-7014(a)(1)) and "commercial computer software
documentation" as such terms are used in 48 C.F.R. 12.212 (Sept.
1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
through 227.7202-4 (June 1995), all U.S. Government End Users
acquire Covered Software with only those rights set forth herein.
This U.S. Government Rights clause is in lieu of, and supersedes,
any other FAR, DFAR, or other clause or provision that addresses
Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the
extent necessary to make it enforceable. This License shall be
governed by the law of the jurisdiction specified in a notice
contained within the Original Software (except to the extent
applicable law, if any, provides otherwise), excluding such
jurisdiction's conflict-of-law provisions. Any litigation
relating to this License shall be subject to the jurisdiction of
the courts located in the jurisdiction and venue specified in a
notice contained within the Original Software, with the losing
```

```
party responsible for costs, including, without limitation, court
costs and reasonable attorneys' fees and expenses. The
application of the United Nations Convention on Contracts for the
International Sale of Goods is expressly excluded. Any law or
regulation which provides that the language of a contract shall
be construed against the drafter shall not apply to this License.
You agree that You alone are responsible for compliance with the
United States export administration regulations (and the export
control laws and regulation of any other countries) when You use,
distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is
responsible for claims and damages arising, directly or
indirectly, out of its utilization of rights under this License
and You agree to work with Initial Developer and Contributors to
distribute such responsibility on an equitable basis. Nothing
herein is intended or shall be deemed to constitute any admission
of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND
DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws
of the State of California (excluding conflict-of-law provisions).
Any litigation relating to this License shall be subject to the
jurisdiction of the Federal Courts of the Northern District of
California and the state courts of the State of California, with
venue lying in Santa Clara County, California.
==========================================================================
EPL-v10
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE
("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES
RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
distributed
under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by
that particular Contributor. A Contribution 'originates' from a Contributor
 if it was
added to the Program by such Contributor itself or anyone acting on such
 Contributor's
behalf. Contributions do not include additions to the Program which: (i) are
 separate
```

```
modules of software distributed in conjunction with the Program under their
 own license
agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily
infringed by the use or sale of its Contribution alone or when combined with
 the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all
Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a
non-exclusive, worldwide, royalty-free copyright license to reproduce,
 prepare
derivative
works of, publicly display, publicly perform, distribute and sublicense the
 Contribution
of such Contributor, if any, and such derivative works, in source code and
 object code
form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a
non-exclusive, worldwide, royalty-free patent license under Licensed Patents
 to make,
use, sell, offer to sell, import and otherwise transfer the Contribution of
 such
Contributor, if any, in source code and object code form. This patent
 license shall
apply
to the combination of the Contribution and the Program if, at the time the
 Contribution
is added by the Contributor, such addition of the Contribution causes such
 combination
to
be covered by the Licensed Patents. The patent license shall not apply to
 any other
combinations which include the Contribution. No hardware per se is licensed
 hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its
Contributions set forth herein, no assurances are provided by any
 Contributor that the
Program does not infringe the patent or other intellectual property rights
 of any other
entity. Each Contributor disclaims any liability to Recipient for claims
 brought by any
other entity based on infringement of intellectual property rights or
 otherwise. As a
condition to exercising the rights and licenses granted hereunder, each
 Recipient hereby
assumes sole responsibility to secure any other intellectual property rights
 needed, if
```

```
any. For example, if a third party patent license is required to allow
 Recipient to
distribute the Program, it is Recipient's responsibility to acquire that
 license before
distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights
in its Contribution, if any, to grant the copyright license set forth in
 this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own
license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and
 conditions,
express and implied, including warranties or conditions of title and non-
infringement,
and implied warranties or conditions of merchantability and fitness for a
 particular
purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages,
including direct, indirect, special, incidental and consequential damages,
 such as lost
profits;

iii) states that any provisions which differ from this Agreement are offered
 by that
Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and
informs licensees how to obtain it in a reasonable manner on or through a
 medium
customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in
a
manner that reasonably allows subsequent Recipients to identify the
 originator of the
Contribution.

4. COMMERCIAL DISTRIBUTION
```

```
Commercial distributors of software may accept certain responsibilities with
 respect to
end users, business partners and the like. While this license is intended to
 facilitate
the commercial use of the Program, the Contributor who includes the Program
 in a
commercial product offering should do so in a manner which does not create
 potential
liability for other Contributors. Therefore, if a Contributor includes the
 Program in a
commercial product offering, such Contributor ("Commercial Contributor")
 hereby agrees
to
defend and indemnify every other Contributor ("Indemnified Contributor")
 against any
losses, damages and costs (collectively "Losses") arising from claims,
 lawsuits and
other
legal actions brought by a third party against the Indemnified Contributor
 to the extent
caused by the acts or omissions of such Commercial Contributor in connection
 with its
distribution of the Program in a commercial product offering. The
 obligations in this
section do not apply to any claims or Losses relating to any actual or
 alleged
intellectual property infringement. In order to qualify, an Indemnified
 Contributor
must:
a) promptly notify the Commercial Contributor in writing of such claim, and
 b) allow the
Commercial Contributor to control, and cooperate with the Commercial
 Contributor in, the
defense and any related settlement negotiations. The Indemnified Contributor
 may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering,
Product X. That Contributor is then a Commercial Contributor. If that
 Commercial
Contributor then makes performance claims, or offers warranties related to
 Product X,
those performance claims and warranties are such Commercial Contributor's
 responsibility
alone. Under this section, the Commercial Contributor would have to defend
 claims
against
the other Contributors related to those performance claims and warranties,
 and if a
court
requires any other Contributor to pay any damages as a result, the
 Commercial
Contributor
must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
 IMPLIED
INCLUDING,
```

```
WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-
INFRINGEMENT,
MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is
 solely
responsible
for determining the appropriateness of using and distributing the Program
 and assumes
all
risks associated with its exercise of rights under this Agreement ,
 including but not
limited to the risks and costs of program errors, compliance with applicable
 laws,
damage
to or loss of data, programs or equipment, and unavailability or
 interruption of
operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
 CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER
 CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION
 OF THE
PROGRAM
OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF
SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it
shall not affect the validity or enforceability of the remainder of the
 terms of this
Agreement, and without further action by the parties hereto, such provision
 shall be
reformed to the minimum extent necessary to make such provision valid and
 enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or
counterclaim in a lawsuit) alleging that the Program itself (excluding
 combinations of
the Program with other software or hardware) infringes such Recipient's
 patent(s), then
such Recipient's rights granted under Section 2(b) shall terminate as of the
 date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with
any of the material terms or conditions of this Agreement and does not cure
 such failure
in a reasonable period of time after becoming aware of such noncompliance.
 If all
Recipient's rights under this Agreement terminate, Recipient agrees to cease
 use and
```

```
distribution of the Program as soon as reasonably practicable. However,
 Recipient's
obligations under this Agreement and any licenses granted by Recipient
 relating to the
Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to
avoid inconsistency the Agreement is copyrighted and may only be modified in
 the
following manner. The Agreement Steward reserves the right to publish new
 versions
(including revisions) of this Agreement from time to time. No one other than
 the
Agreement Steward has the right to modify this Agreement. The Eclipse
 Foundation is the
initial Agreement Steward. The Eclipse Foundation may assign the
 responsibility to serve
as the Agreement Steward to a suitable separate entity. Each new version of
 the
Agreement
will be given a distinguishing version number. The Program (including
 Contributions) may
always be distributed subject to the version of the Agreement under which it
 was
received. In addition, after a new version of the Agreement is published,
 Contributor
may
elect to distribute the Program (including its Contributions) under the new
 version.
Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no rights
or licenses to the intellectual property of any Contributor under this
 Agreement,
whether
expressly, by implication, estoppel or otherwise. All rights in the Program
 not
expressly
granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual
property laws of the United States of America. No party to this Agreement
 will bring a
legal action under this Agreement more than one year after the cause of
 action arose.
Each party waives its rights to a jury trial in any resulting litigation.
===========================================================================

EPL-v20
Eclipse Public License - v 2.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE
("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES
RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. Definitions
"Contribution" means:

a) in the case of the initial Contributor, the initial content Distributed
 under this
Agreement, and
b) in the case of each subsequent Contributor:
```

```
i) changes to the Program, and
ii) additions to the Program; where such changes and/or additions to the
 Program
originate from and are Distributed by that particular Contributor. A
 Contribution
"originates" from a Contributor if it was added to the Program by such
Contributor
itself or anyone acting on such Contributor's behalf. Contributions do not
 include
changes or additions to the Program that are not Modified Works.
"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
 combined with
the Program.

"Program" means the Contributions Distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement or
 any
Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
 form,
that
is based on (or derived from) the Program and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
 original
work
of authorship.

"Modified Works" shall mean any work in Source Code or other form that
 results
from an addition to, deletion from, or modification of the contents of the
 Program,
including, for purposes of clarity any new file in Source Code form that
 contains any
contents of the Program. Modified Works shall not include works that contain
 only
declarations, interfaces, types, classes, structures, or files of the
 Program solely in
each case in order to link to, bind by name, or subclass the Program or
 Modified Works
thereof.

"Distribute" means the acts of a) distributing or b) making available in
 any
manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
 modifications,
including but not limited to software source code, documentation source,
 and
configuration files.

"Secondary License" means either the GNU General Public License, Version
 2.0, or
any later versions of that license, including any exceptions or additional
 permissions
as
identified by the initial Contributor.
```

```
2. Grant of Rights
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a
non-exclusive, worldwide, royalty-free copyright license to reproduce,
 prepare
Derivative
Works of, publicly display, publicly perform, Distribute and sublicense the
 Contribution
of such Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a
non-exclusive, worldwide, royalty-free patent license under Licensed Patents
 to make,
use, sell, offer to sell, import and otherwise transfer the Contribution of
 such
Contributor, if any, in Source Code or other form. This patent license shall
 apply to
the
combination of the Contribution and the Program if, at the time the
 Contribution is
added
by the Contributor, such addition of the Contribution causes such
 combination to be
covered by the Licensed Patents. The patent license shall not apply to any
 other
combinations which include the Contribution. No hardware per se is licensed
 hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its
Contributions set forth herein, no assurances are provided by any
 Contributor that the
Program does not infringe the patent or other intellectual property rights
 of any other
entity. Each Contributor disclaims any liability to Recipient for claims
 brought by any
other entity based on infringement of intellectual property rights or
 otherwise. As a
condition to exercising the rights and licenses granted hereunder, each
 Recipient hereby
assumes sole responsibility to secure any other intellectual property rights
 needed, if
any. For example, if a third party patent license is required to allow
 Recipient to
Distribute the Program, it is Recipient's responsibility to acquire that
 license before
distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights
in its Contribution, if any, to grant the copyright license set forth in
 this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes
 additional
grants to any Recipient (other than those set forth in this Agreement) as a
 result of
such Recipient's receipt of the Program under the terms of a Secondary
 License (if
permitted under the terms of Section 3).

3. Requirements
```

```
3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance
 with section
3.2, and the Contributor must accompany the Program with a statement that
 the Source
Code
for the Program is available under this Agreement, and informs Recipients
 how to obtain
it in a reasonable manner on or through a medium customarily used for
 software exchange;
and

b) the Contributor may Distribute the Program under a license different than
 this
Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties
 and
conditions, express and implied, including warranties or conditions of title
 and
non-infringement, and implied warranties or conditions of merchantability
 and fitness
for
a particular purpose;
ii) effectively excludes on behalf of all other Contributors all liability
 for damages,
including direct, indirect, special, incidental and consequential damages,
 such as lost
profits;
iii) does not attempt to limit or alter the recipients' rights in the Source
 Code under
section 3.2; and
iv) requires any subsequent distribution of the Program by any party to be
 under a
license that satisfies the requirements of this section 3.
3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is
 combined
with
other material in a separate file or files made available under a Secondary
 License, and
(ii) the initial Contributor attached to the Source Code the notice
 described in Exhibit
A of this Agreement, then the Program may be made available under the terms
 of such
Secondary Licenses, and
b) a copy of this Agreement must be included with each copy of the Program.
3.3 Contributors may not remove or alter any copyright, patent, trademark,
 attribution
notices, disclaimers of warranty, or limitations of liability ("notices")
contained within the Program from any copy of the Program which they
 Distribute,
provided
that Contributors may add their own appropriate notices.

4. Commercial Distribution
Commercial distributors of software may accept certain responsibilities with
 respect to
end users, business partners and the like. While this license is intended to
 facilitate
the commercial use of the Program, the Contributor who includes the Program
 in a
```

```
commercial product offering should do so in a manner which does not create
 potential
liability for other Contributors. Therefore, if a Contributor includes the
 Program in a
commercial product offering, such Contributor ("Commercial Contributor")
 hereby
agrees to defend and indemnify every other Contributor ("Indemnified
Contributor")
against any losses, damages and costs (collectively "Losses") arising from
claims,
lawsuits and other legal actions brought by a third party against the
 Indemnified
Contributor to the extent caused by the acts or omissions of such Commercial
 Contributor
in connection with its distribution of the Program in a commercial product
 offering. The
obligations in this section do not apply to any claims or Losses relating to
 any actual
or alleged intellectual property infringement. In order to qualify, an
 Indemnified
Contributor must: a) promptly notify the Commercial Contributor in writing
 of such
claim,
and b) allow the Commercial Contributor to control, and cooperate with the
 Commercial
Contributor in, the defense and any related settlement negotiations. The
 Indemnified
Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering,
Product X. That Contributor is then a Commercial Contributor. If that
 Commercial
Contributor then makes performance claims, or offers warranties related to
 Product X,
those performance claims and warranties are such Commercial Contributor's
 responsibility
alone. Under this section, the Commercial Contributor would have to defend
 claims
against
the other Contributors related to those performance claims and warranties,
 and if a
court
requires any other Contributor to pay any damages as a result, the
 Commercial
Contributor
must pay those damages.

5. No Warranty
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY
APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT
 WARRANTIES
OR
CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT
 LIMITATION, ANY
WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR
 FITNESS FOR A
PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the
appropriateness of using and distributing the Program and assumes all risks
 associated
with its exercise of rights under this Agreement, including but not limited
 to the risks
```

```
and costs of program errors, compliance with applicable laws, damage to or
 loss of data,
programs or equipment, and unavailability or interruption of operations.

6. Disclaimer of Liability
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY
APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY
 LIABILITY FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING
WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN
ANY
WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY
 RIGHTS GRANTED
HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. General
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it
shall not affect the validity or enforceability of the remainder of the
 terms of this
Agreement, and without further action by the parties hereto, such provision
 shall be
reformed to the minimum extent necessary to make such provision valid and
 enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or
counterclaim in a lawsuit) alleging that the Program itself (excluding
 combinations of
the Program with other software or hardware) infringes such Recipient's
 patent(s), then
such Recipient's rights granted under Section 2(b) shall terminate as of the
 date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with
any of the material terms or conditions of this Agreement and does not cure
 such failure
in a reasonable period of time after becoming aware of such noncompliance.
 If all
Recipient's rights under this Agreement terminate, Recipient agrees to cease
 use and
distribution of the Program as soon as reasonably practicable. However,
 Recipient's
obligations under this Agreement and any licenses granted by Recipient
 relating to the
Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to
avoid inconsistency the Agreement is copyrighted and may only be modified in
 the
following manner. The Agreement Steward reserves the right to publish new
 versions
(including revisions) of this Agreement from time to time. No one other than
 the
Agreement Steward has the right to modify this Agreement. The Eclipse
 Foundation is the
```

```
initial Agreement Steward. The Eclipse Foundation may assign the
 responsibility to serve
as the Agreement Steward to a suitable separate entity. Each new version of
 the
Agreement
will be given a distinguishing version number. The Program (including
 Contributions) may
always be Distributed subject to the version of the Agreement under which it
 was
received. In addition, after a new version of the Agreement is published,
 Contributor
may
elect to Distribute the Program (including its Contributions) under the new
 version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no rights
or licenses to the intellectual property of any Contributor under this
 Agreement,
whether
expressly, by implication, estoppel or otherwise. All rights in the Program
 not
expressly
granted under this Agreement are reserved. Nothing in this Agreement is
 intended to be
enforceable by any entity that is not a Contributor or Recipient. No third-
party
beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice
"This Source Code may also be made available under the following Secondary
 Licenses
when the conditions for such availability set forth in the Eclipse Public
 License, v.
2.0
are satisfied: {name license(s), version(s), and exceptions or additional
 permissions
here}."

Simply including a copy of this Agreement, including this Exhibit A is not
 sufficient to
license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file,
 then You may
include the notice in a location (such as a LICENSE file in a relevant
 directory) where
a
recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.
==========================================================================
Gradle

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

  As listed above

==============================================================================
Gradle Subcomponents:

------------------------------------------------------------------------------
```

```
License for the slf4j package
--------------------------------------------------------------------------------
SLF4J License

Copyright (c) 2004-2007 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X
 License or the
X11 License,
which is a simple, permissive non-copyleft free software license. It is
 deemed
compatible
with virtually
all types of licenses, commercial or otherwise. In particular, the Free
 Software
Foundation has declared it
compatible with GNU GPL. It is also known to be approved by the Apache
 Software
Foundation as compatible
with Apache Software License.


--------------------------------------------------------------------------------
License for the JUnit package
--------------------------------------------------------------------------------
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
```

```
distributed by that particular Contributor. A Contribution 'originates' from
 a
Contributor if it was added to the Program by such Contributor itself or
 anyone
acting on such Contributor's behalf. Contributions do not include additions
 to
the Program which: (i) are separate modules of software distributed in
conjunction with the Program under their own license agreement, and (ii) are
 not
derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free copyright license to
reproduce, prepare derivative works of, publicly display, publicly perform,
distribute and sublicense the Contribution of such Contributor, if any, and
 such
derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed
Patents to make, use, sell, offer to sell, import and otherwise transfer the
Contribution of such Contributor, if any, in source code and object code
 form.
This patent license shall apply to the combination of the Contribution and
 the
Program if, at the time the Contribution is added by the Contributor, such
addition of the Contribution causes such combination to be covered by the
Licensed Patents. The patent license shall not apply to any other
 combinations
which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
to its Contributions set forth herein, no assurances are provided by any
Contributor that the Program does not infringe the patent or other
 intellectual
property rights of any other entity. Each Contributor disclaims any
 liability to
Recipient for claims brought by any other entity based on infringement of
intellectual property rights or otherwise. As a condition to exercising the
rights and licenses granted hereunder, each Recipient hereby assumes sole
responsibility to secure any other intellectual property rights needed, if
 any.
For example, if a third party patent license is required to allow Recipient
 to
distribute the Program, it is Recipient's responsibility to acquire that
 license
before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
```

```
copyright rights in its Contribution, if any, to grant the copyright license
 set
forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its
own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and
conditions, express and implied, including warranties or conditions of title
 and
non-infringement, and implied warranties or conditions of merchantability
 and
fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
damages, including direct, indirect, special, incidental and consequential
damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
Contributor, and informs licensees how to obtain it in a reasonable manner
 on or
through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the
Program.

Each Contributor must identify itself as the originator of its Contribution,
 if
any, in a manner that reasonably allows subsequent Recipients to identify
 the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
 who
includes the Program in a commercial product offering should do so in a
 manner
which does not create potential liability for other Contributors. Therefore,
 if
a Contributor includes the Program in a commercial product offering, such
Contributor ("Commercial Contributor") hereby agrees to defend and indemnify
every other Contributor ("Indemnified Contributor") against any losses,
 damages
```

```
and costs (collectively "Losses") arising from claims, lawsuits and other
 legal
actions brought by a third party against the Indemnified Contributor to the
extent caused by the acts or omissions of such Commercial Contributor in
connection with its distribution of the Program in a commercial product
offering. The obligations in this section do not apply to any claims or
 Losses
relating to any actual or alleged intellectual property infringement. In
 order
to qualify, an Indemnified Contributor must: a) promptly notify the
 Commercial
Contributor in writing of such claim, and b) allow the Commercial
 Contributor to
control, and cooperate with the Commercial Contributor in, the defense and
 any
related settlement negotiations. The Indemnified Contributor may participate
 in
any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If
 that
Commercial Contributor then makes performance claims, or offers warranties
related to Product X, those performance claims and warranties are such
Commercial Contributor's responsibility alone. Under this section, the
Commercial Contributor would have to defend claims against the other
Contributors related to those performance claims and warranties, and if a
 court
requires any other Contributor to pay any damages as a result, the
 Commercial
Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS
 OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
 TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using
 and
distributing the Program and assumes all risks associated with its exercise
 of
rights under this Agreement, including but not limited to the risks and
 costs of
program errors, compliance with applicable laws, damage to or loss of data,
programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION
 LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL
```

```
If any provision of this Agreement is invalid or unenforceable under
 applicable
law, it shall not affect the validity or enforceability of the remainder of
 the
terms of this Agreement, and without further action by the parties hereto,
 such
provision shall be reformed to the minimum extent necessary to make such
provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect
 to
a patent applicable to software (including a cross-claim or counterclaim in
 a
lawsuit), then any patent licenses granted by that Contributor to such
 Recipient
under this Agreement shall terminate as of the date such litigation is
 filed. In
addition, if Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
 Program
itself (excluding combinations of the Program with other software or
 hardware)
infringes such Recipient's patent(s), then such Recipient's rights granted
 under
Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
 does
not cure such failure in a reasonable period of time after becoming aware of
such noncompliance. If all Recipient's rights under this Agreement
 terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient's obligations under this
 Agreement
and any licenses granted by Recipient relating to the Program shall continue
 and
survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right
 to
publish new versions (including revisions) of this Agreement from time to
 time.
No one other than the Agreement Steward has the right to modify this
 Agreement.
IBM is the initial Agreement Steward. IBM may assign the responsibility to
 serve
as the Agreement Steward to a suitable separate entity. Each new version of
 the
Agreement will be given a distinguishing version number. The Program
 (including
Contributions) may always be distributed subject to the version of the
 Agreement
under which it was received. In addition, after a new version of the
 Agreement
is published, Contributor may elect to distribute the Program (including its
Contributions) under the new version. Except as expressly stated in Sections
2(a) and 2(b) above, Recipient receives no rights or licenses to the
intellectual property of any Contributor under this Agreement, whether
```

```
expressly, by implication, estoppel or otherwise. All rights in the Program
 not
expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury
 trial in
any resulting litigation.

--------------------------------------------------------------------------------
License for the JCIFS package
--------------------------------------------------------------------------------
JCIFS License

          GNU LESSER GENERAL PUBLIC LICENSE
               Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
```

```
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
```

```
be combined with the library in order to run.

          GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
```

```
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
```

```
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.
```

```
    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
```

```
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
```

```
and reuse of software generally.

                NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

             END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.


    Copyright (C)

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:
```

```
  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  , 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!

--------------------------------------------------------------------------------
License for the JGit package
--------------------------------------------------------------------------------
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

   * Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.
   * Neither the name of the Eclipse Foundation, Inc. nor the names of its
     contributors may be used to endorse or promote products derived from
 this
     software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
License for the GNU Trove library included by the Kotlin embeddable compiler
--------------------------------------------------------------------------------
The source code for GNU Trove is licensed under the Lesser GNU Public
 License (LGPL).

    Copyright (c) 2001, Eric D. Friedman All Rights Reserved. This library
 is free
software; you can redistribute it and/or modify it under
    the terms of the GNU Lesser General Public License as published by the
 Free Software
Foundation; either version 2.1 of the License, or
    (at your option) any later version. This library is distributed in the
 hope that it
will be useful, but WITHOUT ANY WARRANTY; without
    even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
 PURPOSE.
See
the GNU General Public License for more details.
```

```
    You should have received a copy of the GNU Lesser General Public License
 along with
this program; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307,
 USA.


Two classes (HashFunctions and PrimeFinder) included in Trove are licensed
 under the
following terms:

    Copyright (c) 1999 CERN - European Organization for Nuclear Research.
 Permission to
use, copy, modify, distribute and sell this software
    and its documentation for any purpose is hereby granted without fee,
 provided that
the above copyright notice appear in all copies and
    that both that copyright notice and this permission notice appear in
 supporting
documentation. CERN makes no representations about the
    suitability of this software for any purpose. It is provided "as is"
 without
expressed or implied warranty.

The source code of modified GNU Trove library is available at
    https://github.com/JetBrains/intellij-deps-trove4j (with
 trove4j_changes.txt
describing the changes)
==============================================================================
Gradle-icon
Gradle embraces "fair use" of its trademarks.  As such, you may use the
foregoing trademarks to identify Gradle and its family of products, for
 example,
in your website, blog, news article, or product review, without our written
consent, as long as you use them without modification or deceptive intent
 and do
not cause a likelihood of confusion between yourself and Gradleâ€™s brands.

See:
    - https://gradle.com/brand/
    - https://issues.apache.org/jira/browse/LEGAL-495
==============================================================================
HTML5DOC
© Copyright 2004-2010 Apple Computer, Inc., Mozilla Foundation, and Opera
 Software ASA.

You are granted a license to use, reproduce and create derivative works of
 this document.
==============================================================================
MIT-html5-parser
This is for the HTML parser as a whole except the rewindable input stream,
the named character classes and the Live DOM Viewer.
For the copyright notices for individual files, please see individual files.

/*
 * Copyright (c) 2005, 2006, 2007 Henri Sivonen
 * Copyright (c) 2007-2012 Mozilla Foundation
 * Portions of comments Copyright 2004-2007 Apple Computer, Inc., Mozilla
 * Foundation, and Opera Software ASA.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 * copy of this software and associated documentation files (the
 "Software"),
 * to deal in the Software without restriction, including without limitation
```

```
 * the rights to use, copy, modify, merge, publish, distribute, sublicense,
 * and/or sell copies of the Software, and to permit persons to whom the
 * Software is furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 * THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 * DEALINGS IN THE SOFTWARE.
 */

The following license is for the WHATWG spec from which the named character
data was extracted.

/*
 * Copyright 2004-2010 Apple Computer, Inc., Mozilla Foundation, and Opera
 * Software ASA.
 *
 * You are granted a license to use, reproduce and create derivative works
 of
 * this document.
 */

The following license is for the rewindable input stream.

/*
 * Copyright (c) 2001-2003 Thai Open Source Software Center Ltd
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 *  * Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *  * Redistributions in binary form must reproduce the above
 *    copyright notice, this list of conditions and the following
 *    disclaimer in the documentation and/or other materials provided
 *    with the distribution.
 *  * Neither the name of the Thai Open Source Software Center Ltd nor
 *    the names of its contributors may be used to endorse or promote
 *    products derived from this software without specific prior
 *    written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
 * BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 * CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
 * ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
```

```
 */

The following license applies to the Live DOM Viewer:

Copyright (c) 2000, 2006, 2008 Ian Hickson and various contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==============================================================================
MIT-icu4j
ICU License - ICU 1.8.1 and later

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2010 International Business Machines Corporation and
 others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, and/or sell copies of the
Software, and to permit persons to whom the Software is furnished to do so,
provided that the above copyright notice(s) and this permission notice
 appear
in all copies of the Software and that both the above copyright notice(s)
 and
this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE
LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR
 ANY
DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN
AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
 OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not
be used in advertising or otherwise to promote the sale, use or other
 dealings
in this Software without prior written authorization of the copyright
 holder.
```

```
All trademarks and registered trademarks mentioned herein are the property
 of
their respective owners.
==============================================================================
MIT-jsoup
The MIT License

Copyright (c) 2009-2018 Jonathan Hedley

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
==============================================================================
MIT-slf4j
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==============================================================================
MIT-vscode-ext
Copyright (c) Microsoft Corporation
Copyright (c) 2016 George Fraser
Copyright (c) 2018 fwcd

All rights reserved.

MIT License
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit
persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Maven-EPL-v10
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

   1. DEFINITIONS

   "Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
distributed under this Agreement, and

      b) in the case of each subsequent Contributor:

         i) changes to the Program, and

         ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates' from
a Contributor if it was added to the Program by such Contributor itself or
anyone acting on such Contributor's behalf. Contributions do not include
 additions
to the Program which: (i) are separate modules of software distributed in
conjunction with the Program under their own license agreement, and (ii) are
not derivative works of the Program.

   "Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.
```

```
"Recipient" means anyone who receives the Program under this Agreement,
 including
all Contributors.

   2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce,
prepare derivative works of, publicly display, publicly perform, distribute
and sublicense the Contribution of such Contributor, if any, and such
 derivative
works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed
Patents to make, use, sell, offer to sell, import and otherwise transfer the
Contribution of such Contributor, if any, in source code and object code
 form.
This patent license shall apply to the combination of the Contribution and
the Program if, at the time the Contribution is added by the Contributor,
such addition of the Contribution causes such combination to be covered by
the Licensed Patents. The patent license shall not apply to any other
 combinations
which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
to its Contributions set forth herein, no assurances are provided by any
 Contributor
that the Program does not infringe the patent or other intellectual property
rights of any other entity. Each Contributor disclaims any liability to
 Recipient
for claims brought by any other entity based on infringement of intellectual
property rights or otherwise. As a condition to exercising the rights and
licenses granted hereunder, each Recipient hereby assumes sole
 responsibility
to secure any other intellectual property rights needed, if any. For
 example,
if a third party patent license is required to allow Recipient to distribute
the Program, it is Recipient's responsibility to acquire that license before
distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright
rights in its Contribution, if any, to grant the copyright license set forth
in this Agreement.

   3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
its own license agreement, provided that:

      a) it complies with the terms and conditions of this Agreement; and

      b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and
conditions, express and implied, including warranties or conditions of title
and non-infringement, and implied warranties or conditions of
 merchantability
and fitness for a particular purpose;
```

```
ii) effectively excludes on behalf of all Contributors all liability for
 damages,
including direct, indirect, special, incidental and consequential damages,
such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor,
and informs licensees how to obtain it in a reasonable manner on or through
a medium customarily used for software exchange.

   When the Program is made available in source code form:

      a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
the Program.

Each Contributor must identify itself as the originator of its Contribution,
if any, in a manner that reasonably allows subsequent Recipients to identify
the originator of the Contribution.

   4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
who includes the Program in a commercial product offering should do so in
a manner which does not create potential liability for other Contributors.
Therefore, if a Contributor includes the Program in a commercial product
 offering,
such Contributor ("Commercial Contributor") hereby agrees to defend and
 indemnify
every other Contributor ("Indemnified Contributor") against any losses,
 damages
and costs (collectively "Losses") arising from claims, lawsuits and other
legal actions brought by a third party against the Indemnified Contributor
to the extent caused by the acts or omissions of such Commercial Contributor
in connection with its distribution of the Program in a commercial product
offering. The obligations in this section do not apply to any claims or
 Losses
relating to any actual or alleged intellectual property infringement. In
 order
to qualify, an Indemnified Contributor must: a) promptly notify the
 Commercial
Contributor in writing of such claim, and b) allow the Commercial
 Contributor
to control, and cooperate with the Commercial Contributor in, the defense
and any related settlement negotiations. The Indemnified Contributor may
 participate
in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If
that Commercial Contributor then makes performance claims, or offers
 warranties
related to Product X, those performance claims and warranties are such
 Commercial
Contributor's responsibility alone. Under this section, the Commercial
 Contributor
```

```
would have to defend claims against the other Contributors related to those
performance claims and warranties, and if a court requires any other
 Contributor
to pay any damages as a result, the Commercial Contributor must pay those
damages.

   5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS
OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
 PURPOSE.
Each Recipient is solely responsible for determining the appropriateness of
using and distributing the Program and assumes all risks associated with its
exercise of rights under this Agreement, including but not limited to the
risks and costs of program errors, compliance with applicable laws, damage
to or loss of data, programs or equipment, and unavailability or
 interruption
of operations.

   6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION
LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY
 RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

   7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable
law, it shall not affect the validity or enforceability of the remainder of
the terms of this Agreement, and without further action by the parties
 hereto,
such provision shall be reformed to the minimum extent necessary to make
 such
provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program itself
(excluding combinations of the Program with other software or hardware)
 infringes
such Recipient's patent(s), then such Recipient's rights granted under
 Section
2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
does not cure such failure in a reasonable period of time after becoming
 aware
of such noncompliance. If all Recipient's rights under this Agreement
 terminate,
Recipient agrees to cease use and distribution of the Program as soon as
 reasonably
practicable. However, Recipient's obligations under this Agreement and any
licenses granted by Recipient relating to the Program shall continue and
 survive.
```

```
Everyone is permitted to copy and distribute copies of this Agreement, but
in order to avoid inconsistency the Agreement is copyrighted and may only
be modified in the following manner. The Agreement Steward reserves the
 right
to publish new versions (including revisions) of this Agreement from time
to time. No one other than the Agreement Steward has the right to modify
 this
Agreement. The Eclipse Foundation is the initial Agreement Steward. The
 Eclipse
Foundation may assign the responsibility to serve as the Agreement Steward
to a suitable separate entity. Each new version of the Agreement will be
 given
a distinguishing version number. The Program (including Contributions) may
always be distributed subject to the version of the Agreement under which
it was received. In addition, after a new version of the Agreement is
 published,
Contributor may elect to distribute the Program (including its
 Contributions)
under the new version. Except as expressly stated in Sections 2(a) and 2(b)
above, Recipient receives no rights or licenses to the intellectual property
of any Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted under
this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual
property laws of the United States of America. No party to this Agreement
will bring a legal action under this Agreement more than one year after the
cause of action arose. Each party waives its rights to a jury trial in any
resulting litigation.
Maven-MIT

The MIT License

Copyright (c) 2009-2019 Jonathan Hedley

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
==========================================================================
W3C
W3C (R) Intellectual Rights Notice and Legal Disclaimers

This page includes notices and disclaimers related to:
```

```
  1. Copyright
  2. Notices
  3. Trademarks
  4. Disclaimers_and_Liabilities


Copyright (C) 1994-2002 W3C (R) (Massachusetts_Institute_of_Technology,
 Institut
National_de_Recherche_en_Informatique_et_en_Automatique, Keio_University),
 All
Rights Reserved.

World Wide Web Consortium (W3C (R)) web site pages may contain other
 proprietary
notices and copyright information, the terms of which must be observed and
followed. Specific notices do exist for W3C documents and software. Also,
 there
are specific_usage_policies_associated_with_some_of_the_W3C_Icons. Please
 see
our Intellectual_Rights_FAQ for common questions about using materials from
 our
site.

Notice and Disclaimers

1. Unless otherwise noted, all materials contained in this Site are
 copyrighted
and may not be used except as provided in these terms and conditions or in
 the
copyright notice (documents and software) or other proprietary notice
 provided
with the relevant materials.
2. The materials contained in the Site may be downloaded or copied provided
that ALL copies retain the copyright and any other proprietary notices
contained on the materials. No material may be modified, edited or taken out
 of
context such that its use creates a false or misleading statement or
 impression
as to the positions, statements or actions of W3C.
3. The name and trademarks of copyright holders may NOT be used in
 advertising
or publicity pertaining to the Web site, its content, specifications, or
software without specific, written prior permission. Title to copyright in
 Web
site documents will at all times remain with copyright holders. Use of W3C
trademarks and service marks is covered by the W3C_Trademark_and_Servicemark
License.
4. Caches of W3C materials should comply with the "maximum time to live"
information provided with the materials. After such materials have expired
 they
should not be served from caches without first validating the contents of
 the
W3C Site. Organizations that want to mirror W3C content must abide by the
 W3C
Mirroring_Policy.

W3C (R)Trademarks and Generic Terms


Trademarks owned by W3C host institutions on behalf of W3C and generic terms
used by the W3C

5. The trademarks, logos, and service marks (collectively the "Trademarks")
displayed on the Site are registered and unregistered Trademarks of the
```

```
Massachusetts Institute of Technology (MIT), Institut National de Recherche
 en
Informatique et en Automatique (INRIA), or Keio University (Keio). All use
 of
the W3C Trademarks is governed by the W3C_Trademark_and_Servicemark_License.
 No
additional rights are granted by implication, estoppel, or otherwise. Terms
which claimed as generic are not governed by any W3C license and are used as
common descriptors by the W3C.
The following is a list of W3C terms claimed as a trademark or generic term
 by
MIT, INRIA, and/or Keio on behalf of the W3C:

     W3C (R), World Wide Web Consortium (registered in numerous countries)
     AmayaTM, a Web Browser
     CSSTM, Cascading Style Sheets Specification
     DOMTM, Document Object Model
     HTML (generic), HyperText Markup Language
     HTTP (generic), Hypertext Transfer Protocol
     MathMLTM, Mathematical Markup Language
     Metadata (generic)
     P3PTM, Platform for Privacy Preferences Project
     PICSTM, Platform for Internet Content Selection
     RDF (generic), Resource Description Framework
     SMILTM, Synchronized Multimedia Integration Language
     SVGTM, Scalable Vector Graphics
     WAITM, Web Accessibility Initiative
     XENC (generic), XML Encryption
     XHTMLTM, The Extensible HyperText Markup Language
     XML (generic), Extensible Markup Language
     XSLTM, Extensible Stylesheet Language

     ACSSTM, Aural Cascading Style Sheets
     DSigTM, Digital Signature Initiative
     JEPITM, Joint Electronic Payment Initiative
     JigsawTM
     PICSRulesTM
     WebFontsTM

The absence of a product or service name or logo from this list does not
constitute a waiver of MIT's, INRIA's, or Keio's trademark or other
intellectual rights concerning that name or logo.
Any questions concerning the use, status, or standing of W3C trademarks
 should
be directed to: site-policy@w3.org or to W3C (c/o Joseph Reagle), Laboratory
for Computer Science NE43-358, Massachusetts Institute of Technology, 200
Technology Square, Cambridge, MA 02139.

Non-W3C Trademarks; Member Trademarks

The trademarks, logos, and service marks not owned on behalf of the W3C and
that are displayed on the Site are the registered and unregistered marks of
their respective owners. No rights are granted by the W3C to use such marks,
whether by implication, estoppel, or otherwise.
"METADATA" is a trademark of the Metadata Company. W3C uses the term
 "metadata"
in a descriptive sense, meaning "data about data". W3C is not in any way
affiliated with the Metadata Company.

Legal Disclaimers

6. W3C has not reviewed any or all of the web sites linked to this Site and
 is
not responsible for the content of any off-site pages or any other web sites
```

```
linked to this Site. Please understand that any non-W3C web site is
 independent
from W3C, and W3C has no control over the content on that web site. In
addition, a link to a non-W3C web site does not mean that W3C endorses or
accepts any responsibility for the content, or the use, of such site. It is
 the
user's responsibility to take precautions to ensure that whatever is
 selected
is free of such items as viruses, worms, Trojan horses and other items of a
destructive nature.
7. Information W3C publishes on its Site may contain references or cross
references to W3C specifications, projects, programs and services that are
 not
announced or available in your country. Such references do not imply that
 W3C
intends to announce such specifications, projects, programs or services in
 your
country.
8. Information on this Site may contain technical inaccuracies or
 typographical
errors. Information may be changed or updated without notice. W3C may make
improvements and/or changes in the materials contained in or described on
 this
site at any time without notice. W3C may also make changes in these Terms
 and
Conditions without notice. User is bound by such revisions and should
 therefore
periodically visit this page to review the then current Terms and
 Conditions.

9. Limitation on Warranties.

ALL MATERIALS ON THE W3C SITE ARE PROVIDED "AS IS." W3C, MIT, INRIA, AND
 KEIO
MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT
 NOT
LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE,
TITLE OR NON-INFRINGEMENT. AS TO DOCUMENTS AND GRAPHICS PUBLISHED ON THIS
 SITE,
W3C, MIT, INRIA, AND KEIO MAKE NO REPRESENTATION OR WARRANTY THAT THE
 CONTENTS
OF SUCH DOCUMENT OR GRAPHICS ARE FREE FROM ERROR OR SUITABLE FOR ANY
 PURPOSE;
NOR THAT IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY
PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.
Please note that some jurisdictions may not allow the exclusion of implied
warranties, so some of the above exclusions may not apply to you.

10. Limitation on Liability.

IN NO EVENT WILL W3C, MIT, INRIA, AND KEIO BE LIABLE TO ANY PARTY FOR ANY
DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES FOR ANY USE OF THIS SITE,
 OR
ON ANY OTHER HYPERLINKED WEB SITE, INCLUDING, WITHOUT LIMITATION, ANY LOST
PROFITS, BUSINESS INTERRUPTION, LOSS OF PROGRAMS OR OTHER DATA ON YOUR
INFORMATION HANDLING SYSTEM OR OTHERWISE, EVEN IF W3C, MIT, INRIA, OR KEIO
 IS
EXPRESSLY ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
_______________
Please see our Intellectual_Rights_FAQ for common questions about using
materials from our site. Questions about this notice can be directed to
 site-
policy@w3.org .
Created by reagle
```

```
last updated by reagle on $ Date: 1999/07/28 13:54:29 $
Copyright (C) 1998-2002 W3C (R) (MIT, INRIA, Keio), All Rights Reserved. W3C
liability, trademark, document_use and software_licensing rules apply.
-------------------------------------------------------------------------------


W3C (R) DOCUMENT NOTICE AND LICENSE


Copyright (C) 1994-2002 World Wide Web Consortium, (Massachusetts Institute
 of
Technology, Institut National de Recherche en Informatique et en
 Automatique,
Keio University). All Rights Reserved.
http://www.w3.org/Consortium/Legal/

Public documents on the W3C site are provided by the copyright holders under
the following license. The software or Document Type Definitions (DTDs)
associated with W3C specifications are governed by the Software Notice. By
using and/or copying this document, or the W3C document from which this
statement is linked, you (the licensee) agree that you have read,
 understood,
and will comply with the following terms and conditions:
Permission to use, copy, and distribute the contents of this document, or
 the
W3C document from which this statement is linked, in any medium for any
 purpose
and without fee or royalty is hereby granted, provided that you include the
following on ALL copies of the document, or portions thereof, that you use:

  1. A link or URL to the original W3C document.
  2. The pre-existing copyright notice of the original author, or if it
 doesn't
     exist, a notice of the form: "Copyright (C) [$date-of-document] World
 Wide
     Web Consortium, (Massachusetts Institute of Technology, Institut
 National
     de Recherche en Informatique et en Automatique, Keio University). All
     Rights Reserved. http://www.w3.org/Consortium/Legal/" (Hypertext is
     preferred, but a textual representation is permitted.)
  3. If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be
provided. We request that authorship attribution be provided in any
 software,
documents, or other items or products that you create pursuant to the
implementation of the contents of this document, or any portion thereof.
No right to create modifications or derivatives of W3C documents is granted
pursuant to this license. However, if additional requirements (documented in
the Copyright FAQ) are satisfied, the right to create modifications or
derivatives is sometimes granted by the W3C to individuals complying with
 those
requirements.
THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO
REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT
 LIMITED
TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-
INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR
 ANY
PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY
THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.
COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE
 PERFORMANCE
```

```
OR IMPLEMENTATION OF THE CONTENTS THEREOF.
The name and trademarks of copyright holders may NOT be used in advertising
 or
publicity pertaining to this document or its contents without specific,
 written
prior permission. Title to copyright in this document will at all times
 remain
with copyright holders.
--------------------------------------------------------------------------------
This formulation of W3C's notice and license became active on April 05 1999
 so
as to account for the treatment of DTDs, schema's and bindings. See the
 older
formulation for the policy prior to this date. Please see our Copyright FAQ
 for
common questions about using materials from our site, including specific
 terms
and conditions for packages like libwww, Amaya, and Jigsaw. Other questions
about this notice can be directed to site-policy@w3.org.
--------------------------------------------------------------------------------


W3C(R) SOFTWARE NOTICE AND LICENSE


Copyright (c) 1994-2002 World Wide Web Consortium, (Massachusetts Institute
 of
Technology, Institut National de Recherche en Informatique et en
 Automatique,
Keio University). All Rights Reserved. http://www.w3.org/Consortium/Legal/

This W3C work (including software, documents, or other related items) is
 being
provided by the copyright holders under the following license. By obtaining,
using and/or copying this work, you (the licensee) agree that you have read,
understood, and will comply with the following terms and conditions:
Permission to use, copy, modify, and distribute this software and its
documentation, with or without modification, for any purpose and without fee
 or
royalty is hereby granted, provided that you include the following on ALL
copies of the software and documentation or portions thereof, including
modifications, that you make:

  1. The full text of this NOTICE in a location viewable to users of the
     redistributed or derivative work.
  2. Any pre-existing intellectual property disclaimers, notices, or terms
 and
     conditions. If none exist, a short notice of the following form
 (hypertext
     is preferred, text is permitted) should be used within the body of any
     redistributed or derivative code: "Copyright (c) [$date-of-software]
 World
     Wide Web Consortium, (Massachusetts Institute of Technology, Institut
     National de Recherche en Informatique et en Automatique, Keio
 University).
     All Rights Reserved. http://www.w3.org/Consortium/Legal/"
  3. Notice of any changes or modifications to the W3C files, including the
     date changes were made. (We recommend you provide URIs to the location
     from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS
 MAKE
NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT
 LIMITED
```

```
TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR
 THAT
THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY
PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.
COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR
 DOCUMENTATION.
The name and trademarks of copyright holders may NOT be used in advertising
 or
publicity pertaining to the software without specific, written prior
permission. Title to copyright in this software and any associated
documentation will at all times remain with copyright holders.
____________________________________
This formulation of W3C's notice and license became active on August 14 1998
 so
as to improve compatibility with GPL. This version ensures that W3C software
licensing terms are no more restrictive than GPL and consequently W3C
 software
may be distributed in GPL packages. See the older_formulation for the policy
prior to this date. Please see our Copyright_FAQ for common questions about
using materials from our site, including specific terms and conditions for
packages like libwww, Amaya, and Jigsaw. Other questions about this notice
 can
be directed to site-policy@w3.org.
W3C2
W3C Software and Document Notice and License

This work is being provided by the copyright holders under the following
 license.

License

By obtaining and/or copying this work, you (the licensee) agree that you
 have
read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this work, with or without
modification, for any purpose and without fee or royalty is hereby granted,
provided that you include the following on ALL copies of the work or
 portions
thereof, including modifications:

- The full text of this NOTICE in a location viewable to users of the
  redistributed or derivative work.
- Any pre-existing intellectual property disclaimers, notices, or terms and
  conditions. If none exist, the W3C Software and Document Short Notice
 should
  be included.
- Notice of any changes or modifications, through a copyright statement on
 the
  new code or document such as "This software or document includes material
  copied from or derived from [title and URI of the W3C document].
  Copyright © [YEAR] W3C® (MIT, ERCIM, Keio, Beihang)."

Disclaimers

THIS WORK IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS
 OR
 WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES
 OF
MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF
 THE
SOFTWARE OR DOCUMENT WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS,
TRADEMARKS OR OTHER RIGHTS.
```

```
COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENT.

The name and trademarks of copyright holders may NOT be used in advertising
 or
publicity pertaining to the work without specific, written prior
 permission.
Title to copyright in this work will at all times remain with copyright
holders.
Notices

XHR via Java
Copyright 2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Maven Builder Support
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Apache Felix Main
Copyright 2006-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


This product includes software developed at
The OSGi Alliance (http://www.osgi.org/).
Copyright (c) OSGi Alliance (2000, 2015).
Licensed under the Apache License 2.0.

Maven Artifact Resolver SPI
Copyright 2010-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Codec
Copyright 2002-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

===============================================================================

The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
```

```
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

Maven Embedder
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Browser Bootstrap
Copyright 2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Maven Model
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Compress
Copyright 2002-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

The files in the package org.apache.commons.compress.archivers.sevenz
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (http://www.7-zip.org/sdk.html)

Maven Artifact Resolver Implementation
Copyright 2010-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Maven Artifact Resolver Provider
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Apache Maven Wagon :: Providers :: HTTP Provider
Copyright 2003-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Copyright 2014 - 2019 Rafael Winterhalter

Licensed under the Apache License, Version 2.0 (the "License");
```

```
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Maven Artifact Resolver API
Copyright 2010-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Maven Model Builder
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Maven Artifact Resolver Transport Wagon
Copyright 2010-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Lang
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software from the Spring Framework,
under the Apache License 2.0 (see: StringUtils.containsWhitespace())

HTML Context
Copyright 2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Maven SLF4J Simple Provider
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons IO
Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
Apache Commons Logging
```

```
Copyright 2003-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Maven Wagon :: API
Copyright 2003-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



JSON Model in Java
Copyright 2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Maven Core
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons IO
Copyright 2002-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
Apache Lucene
Copyright 2012 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

The snowball stemmers in
  contrib/analyzers/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
  contrib/analyzers/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
  http://snowball.tartarus.org/

The KStem stemmer in
  common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (contrib/
analyzers) come with
a default
stopword list that is BSD-licensed created by Jacques Savoy.  These files
 reside in:
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ar/
stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/fa/
stopwords.txt,
```

```
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ro/
stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/bg/
stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/hi/
stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and
 Swedish light
stemmers
(common) are based on BSD-licensed reference implementations created by
 Jacques Savoy and
Ljiljana Dolamic. These files reside in:
contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/
GermanLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/
GermanMinimalStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/
SpanishLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/fi/
FinnishLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/fr/
FrenchLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/fr/
FrenchMinimalStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/hu/
HungarianLightStemmer.jav
a
contrib/analyzers/common/src/java/org/apache/lucene/analysis/it/
ItalianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/pt/
PortugueseLightStemmer.ja
v
a
contrib/analyzers/common/src/java/org/apache/lucene/analysis/ru/
RussianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/sv/
SwedishLightStemmer.java

The Stempel analyzer (contrib/analyzers) includes BSD-licensed software
 developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos,
 Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (contrib/analyzers) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file
 resides
in contrib/analyzers/stempel/src/resources/org/apache/lucene/analysis/pl/
stopwords.txt.
See http://project.carrot2.org/license.html.

Includes software from other Apache Software Foundation projects,
including, but not limited to:
 - Apache Ant
 - Apache Jakarta Regexp
 - Commons Compress
 - Xerces

The SmartChineseAnalyzer source code (under contrib/analyzers) was
provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

ICU4J, (under contrib/icu) is licensed under an MIT styles license
```

```
(contrib/icu/lib/ICU-LICENSE.txt) and Copyright (c) 1995-2008
International Business Machines Corporation and others

Some files (contrib/analyzers/common/src/test/.../
WordBreakTestUnicode_*.java
and data files under contrib/icu/src/data/) are derived from Unicode data
 such
as the Unicode Character Database. See http://unicode.org/copyright.html for
 more
details.

The class org.apache.lucene.SorterTemplate was inspired by CGLIB's class
 with
the same name. The implementation part is mainly done using pre-existing
Lucene sorting code. In-place stable mergesort was borrowed from CGLIB,
which is Apache-licensed.

The class org.apache.lucene.util.WeakIdentityMap was derived from
the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0.
See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling
 Checking
Package
(jaspell): http://jaspell.sourceforge.net/
License: The BSD License (http://www.opensource.org/licenses/bsd-
license.php)

===============================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===============================================================================

This software includes a binary and/or source version of data from

  mecab-ipadic-2.7.0-20070801

which can be obtained from

  http://atilika.com/releases/mecab-ipadic/mecab-
ipadic-2.7.0-20070801.tar.gz

or


http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/
mecab-ipadic-2
.7.0-20070801.tar.gz

===============================================================================
mecab-ipadic-2.7.0-20070801 Notice
===============================================================================

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
```

```
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originate from ICOT Free Software.  The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis.  Accordingly, the
program is provided without any warranty whatsoever, whether express,
implied, statutory or otherwise.  The term "warranty" used herein
includes, but is not limited to, any warranty of the quality,
performance, merchantability and fitness for a particular purpose of
the program and the nonexistence of any infringement or violation of
any right of any third party.

Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other
organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general, special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter.  Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program.  The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.

In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.

Maven Compat
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
Maven Artifact Resolver Utilities
Copyright 2010-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Lang
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
This product includes software developed by the Indiana University
  Extreme! Lab (http://www.extreme.indiana.edu/).

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

This product includes software developed by
ThoughtWorks (http://www.thoughtworks.com).

This product includes software developed by
javolution (http://javolution.org/).

This product includes software developed by
Rome (https://rome.dev.java.net/).

Apache Maven Dependency Tree
Copyright 2002-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Ant
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

The  task is based on code Copyright (c) 2002, Landmark
Graphics Corp that has been kindly donated to the Apache Software
Foundation.

Maven Repository Metadata Model
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Batik
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This software contains code from the World Wide Web Consortium (W3C) for
 the
Document Object Model API (DOM API) and SVG Document Type Definition (DTD).

This software contains code from the International Organisation for
Standardization for the definition of character entities used in the
 software's
```

```
documentation.

This product includes images from the Tango Desktop Project
(http://tango.freedesktop.org/).

This product includes images from the Pasodoble Icon Theme
(http://www.jesusda.com/projects/pasodoble).

Knockout.js for Java
Copyright 2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Maven Plugin API
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Maven :: Indexer Core
Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Lang
Copyright 2001-2011 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).
Apache XML Graphics Commons
Copyright 2006-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
Apache Lucene
Copyright 2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Includes software from other Apache Software Foundation projects,
including, but not limited to:
 - Apache Ant
 - Apache Jakarta Regexp
 - Apache Commons
 - Apache Xerces

ICU4J, (under analysis/icu) is licensed under an MIT styles license
and Copyright (c) 1995-2008 International Business Machines Corporation and
 others

Some data files (under analysis/icu/src/data) are derived from Unicode data
 such
as the Unicode Character Database. See http://unicode.org/copyright.html for
 more
details.
```

```
Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is
BSD-licensed, created by Anders MÃ¸ller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/
automaton)
were
automatically generated with the moman/finenight FSA library, created by
Jean-Philippe Barrette-LaPierre. This library is available under an MIT
 license,
see http://sites.google.com/site/rrettesite/moman and
http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0.
See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling
 Checkin
g Package (jaspell): http://jaspell.sourceforge.net/
License: The BSD License (http://www.opensource.org/licenses/bsd-
license.php)

The snowball stemmers in
  analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
  analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
  http://snowball.tartarus.org/

The KStem stemmer in
  analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come
 with a default
stopword list that is BSD-licensed created by Jacques Savoy.  These files
 reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and
 Swedish light
stemmers
(common) are based on BSD-licensed reference implementations created by
 Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/
GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/
GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/
SpanishLightStemmer.java
```

```
analysis/common/src/java/org/apache/lucene/analysis/fi/
FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/
FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/
FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/
HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/
ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/
PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/
RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/
SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos,
 Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file
 resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was
provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
is derived from Unicode data such as the Unicode Character Database.
See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software
developed by Dawid Weiss and Marcin MiÅ‚kowski (http://
morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary
(http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia)
LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP)
(http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the
 original
source code for this can be found at http://www.eclipse.org/jetty/
downloads.php

=========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
=========================================================================

This software includes a binary and/or source version of data from

  mecab-ipadic-2.7.0-20070801

which can be obtained from

  http://atilika.com/releases/mecab-ipadic/mecab-
ipadic-2.7.0-20070801.tar.gz
```

```
or


http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/
mecab-ipadic-2
.7.0-20070801.tar.gz

===============================================================================
mecab-ipadic-2.7.0-20070801 Notice
===============================================================================

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originate from ICOT Free Software.  The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis.  Accordingly, the
program is provided without any warranty whatsoever, whether express,
implied, statutory or otherwise.  The term "warranty" used herein
includes, but is not limited to, any warranty of the quality,
performance, merchantability and fitness for a particular purpose of
the program and the nonexistence of any infringement or violation of
any right of any third party.

Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other
organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general, special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter.  Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program.  The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
```

```
production of secondary products from the program.

In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.

Maven Settings Builder
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons CLI
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Maven Artifact
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Google Guice - Core Library
Copyright 2006-2018 Google, Inc.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



FX WebView Bootstrap
Copyright 2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Geolocation API
Copyright 2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Apache Maven Wagon :: Providers :: File Provider
Copyright 2003-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
Maven Settings
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



Maven Artifact Resolver Connector Basic
Copyright 2010-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

android-json-0.0.20131108.vaadin1.jar notice
/*
 * Copyright (C) 2010 The Android Open Source Project
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

Spring Boot 2.3.9.RELEASE
Copyright (c) 2012-2021 Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.

Spring Boot 2.4.4
Copyright (c) 2012-2021 Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.
```

Provider: Apache Software Foundation (ASF) / Component(s): Commons Configuration 2.5

```
Apache Commons Configuration 2.5

COPYRIGHT: Copyright 2001-2019 The Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/commons-configuration/blob/
commons-configuration-2.5/LICENSE.txt

NOTICE:
Apache Commons Configuration
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
```

```
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
```

```
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


**********************
4P Dependencies:
**********************

commons-logging » commons-logging 1.2

COPYRIGHT: Copyright 2003-2016 The Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/master/
LICENSE.txt
```

```
NOTICE:
Apache Commons Logging
Copyright 2003-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


===
org.apache.commons commons-lang3 3.9

COPYRIGHT: Copyright 2001-2018 The Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/commons-lang/blob/commons-
lang-3.9/LICENSE.txt

NOTICE:
Apache Commons Lang
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



===
org.apache.commons commons-text 1.6

COPYRIGHT: Copyright 2014-2019 The Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/commons-text/blob/master/
LICENSE.txt

NOTICE:
Apache Commons Text
Copyright 2014-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
```

Provider: Applied Informatics Software Engineering GmbH / Component(s): POCO C++ Libraries 1.9.4

```
http://pocoproject.org/license.html
Boost Software License - Version 1.0 - August 17th, 2003

Copyright (c) 2012, Applied Informatics Software Engineering GmbH.
and Contributors.

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
```

```
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: AQR Capital Management, LLC, Lambda Foundry, Inc. and PyData Development Team / Component(s): Pandas 1.5.3

```
============================Top Level License and
 Notice================================

BSD 3-Clause License
====================

Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2022, Open source contributors.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========================================================================================

4th Party Dependencies:
=======================

python-dateutil - Under Apache License and BSD License
```

```
=====================================================

Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).

dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

     Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
     Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
     Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.

-----------------------------------------------------------------------------------------
```

```
six - Under MIT License
--------------------------

Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==============================================================================

pytz - Under MIT License
========================

Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

==============================================================================

numpy - Under BSD License
=========================

Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

     Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
```

```
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: LAPACK
Files: extra-dll\libopenb*.dll
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------
```

```
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
tempita

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------
dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

--------------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>
```

```
  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

--------------------------------------------------------------------------------
LICENSES_bundled in different directories:
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md
```

```
Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.
```

```
   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
```

```
   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
```

```
   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

-------------------------------------------------------------------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------

=================== Additional licenses for pandas -
 Start================================

Pyperclip - BSD license
=======================

Copyright (c) 2010, Albert Sweigart
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the pyperclip nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY Albert Sweigart "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL Albert Sweigart BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
==================================================================================

SAS7BDAT - MIT License
======================

Copyright (c) 2015 Jared Hobbs

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

=================== Additional licenses for pandas -
 End================================
```

Provider: Armin Ronacher / Component(s): click 6.6

```
Copyright (c) 2014 by Armin Ronacher.
```

```
Click uses parts of optparse written by Gregory P. Ward and maintained by
 the
Python software foundation. This is limited to code in the parser.py
module:

Copyright (c) 2001-2006 Gregory P. Ward. All rights reserved.
Copyright (c) 2002-2006 Python Software Foundation. All rights reserved.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Armin Ronacher / Component(s): click 7.0

```
Copyright © 2014 by the Pallets team.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well as
 documentation, with or without modification, are permitted provided that
 the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
 BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
 SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE
 AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Click uses parts of optparse written by Gregory P. Ward and maintained by
 the Python Software Foundation. This is limited to code in parser.py.

Copyright © 2001-2006 Gregory P. Ward. All rights reserved. Copyright ©
 2002-2006 Python Software Foundation. All rights reserved.
```

Provider: Armin Ronacher / Component(s): Flask-SQLAlchemy 2.3.2

```
Flask-SQLAlchemy 2.3.2
COPYRIGHT and LICENSE:
Copyright (c) 2014 by Armin Ronacher.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------
4P Dependencies:


Flask 1.0.2

COPYRIGHT and LICENSE:
Copyright © 2010 by the Pallets team.
Some rights reserved.

Redistribution and use in source and binary forms of the software as
well as documentation, with or without modification, are permitted
```

```
provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.


---
SQLAlchemy 1.2.13
This is the MIT license: http://www.opensource.org/licenses/mit-license.php

Copyright (c) 2005-2018 the SQLAlchemy authors and contributors <see AUTHORS
 file>.
SQLAlchemy is a trademark of Michael Bayer.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: Artur Bosch & Contributors / Component(s): detekt 1.0.0RC9

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
```

```
   Copyright 2016-2017 Artur Bosch & Contributors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Asana/ Component(s): DefinitelyTyped react type definitions 16.8.3

```
@types/react 16.8.3
COPYRIGHT:

// Project: http://facebook.github.io/react/
// Definitions by: Asana <https://asana.com>
//                 AssureSign <http://www.assuresign.com>
//                 Microsoft <https://microsoft.com>
//                 John Reilly <https://github.com/johnnyreilly>
//                 Benoit Benezech <https://github.com/bbenezech>
//                 Patricio Zavolinsky <https://github.com/pzavolinsky>
//                 Digiguru <https://github.com/digiguru>
//                 Eric Anderson <https://github.com/ericanderson>
//                 Tanguy Krotoff <https://github.com/tkrotoff>
//                 Dovydas Navickas <https://github.com/DovydasNavickas>
//                 Stéphane Goetz <https://github.com/onigoetz>
//                 Josh Rutherford <https://github.com/theruther4d>
//                 Guilherme Hübner <https://github.com/guilhermehubner>
//                 Ferdy Budhidharma <https://github.com/ferdaber>
//                 Johann Rakotoharisoa <https://github.com/jrakotoharisoa>
//                 Olivier Pascal <https://github.com/pascaloliv>
//                 Martin Hochel <https://github.com/hotell>
//                 Frank Li <https://github.com/franklixuefei>
//                 Jessica Franco <https://github.com/Jessidhia>
//                 Paul Sherman <https://github.com/pshrmn>
//                 Saransh Kataria <https://github.com/saranshkataria>
//                 Kanitkorn Sujautra <https://github.com/lukyth>
//                 Sebastian Silbermann <https://github.com/eps1lon>
// Definitions: https://github.com/DefinitelyTyped/DefinitelyTyped
// TypeScript Version: 2.8


LICENSE: MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



***************************
4P Dependencies:
***************************

@types/prop-types 15.7.1
COPYRIGHT and LICENSE:

These definitions were written by DovydasNavickas https://github.com/
DovydasNavickas, Ferdy Budhidharma https://github.com/ferdaber, Sebastian
 Silbermann https://github.com/eps1lon.


Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



---
csstype 2.2.0
COPYRIGHT and LICENSE:

Copyright (c) 2017-2018 Fredrik Nicol

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Asana / Component(s): DefinitelyTyped react-dom type definitions 16.8.4

```
@types/react-dom 16.8.4
COPYRIGHT:
These definitions were written by Asana https://asana.com,
AssureSign http://www.assuresign.com, Microsoft https://microsoft.com,
MartynasZilinskas https://github.com/MartynasZilinskas,
Josh Rutherford https://github.com/theruther4d, Jessica Franco https://
github.com/Jessidhia.
LICENSE: MIT
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
*********************
4P Dependencies:
*********************
@types/react 16.8.3
COPYRIGHT:
// Project: http://facebook.github.io/react/
// Definitions by: Asana <https://asana.com>
// AssureSign <http://www.assuresign.com>
// Microsoft <https://microsoft.com>
// John Reilly <https://github.com/johnnyreilly>
// Benoit Benezech <https://github.com/bbenezech>
// Patricio Zavolinsky <https://github.com/pzavolinsky>
// Digiguru <https://github.com/digiguru>
// Eric Anderson <https://github.com/ericanderson>
// Tanguy Krotoff <https://github.com/tkrotoff>
// Dovydas Navickas <https://github.com/DovydasNavickas>
// Stéphane Goetz <https://github.com/onigoetz>
// Josh Rutherford <https://github.com/theruther4d>
// Guilherme Hübner <https://github.com/guilhermehubner>
// Ferdy Budhidharma <https://github.com/ferdaber>
// Johann Rakotoharisoa <https://github.com/jrakotoharisoa>
// Olivier Pascal <https://github.com/pascaloliv>
// Martin Hochel <https://github.com/hotell>
// Frank Li <https://github.com/franklixuefei>
// Jessica Franco <https://github.com/Jessidhia>
// Paul Sherman <https://github.com/pshrmn>
// Saransh Kataria <https://github.com/saranshkataria>
// Kanitkorn Sujautra <https://github.com/lukyth>
// Sebastian Silbermann <https://github.com/eps1lon>
// Definitions: https://github.com/DefinitelyTyped/DefinitelyTyped
// TypeScript Version: 2.8
LICENSE: MIT
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---
@types/prop-types 15.7.1
COPYRIGHT and LICENSE:
These definitions were written by DovydasNavickas https://github.com/
DovydasNavickas, Ferdy Budhidharma https://github.com/ferdaber, Sebastian
 Silbermann https://github.com/eps1lon.
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---
csstype 2.2.0
COPYRIGHT and LICENSE:
Copyright (c) 2017-2018 Fredrik Nicol
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Atlassian / Component(s): commonmark-java 0.15.1

```
Copyright (c) 2015-2016, Atlassian Pty Ltd
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Auth0 / Component(s): jwt-decode 2.2.0

```
Source : https://github.com/auth0/jwt-decode/blob/master/LICENSE.txt

The MIT License (MIT)
Copyright (c) 2015 Auth0, Inc. <support@auth0.com> (http://auth0.com)
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Axel Haustant / Component(s): flask-restplus 0.12.1

```
noirbizarre/flask-restplus 0.12.1

COPYRIGHT and LICENSE:
```

```
BSD 3-Clause License

Original work Copyright (c) 2013 Twilio, Inc
Modified work Copyright (c) 2014 Axel Haustant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



******************************
4P Dependencies:


"swagger-ui-dist": "^3.4.0"
COPYRIGHT and LICENSE:
Copyright 2017 SmartBear Software

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at [apache.org/licenses/LICENSE-2.0]
(http://www.apache.org/licenses/LICENSE-2.0)

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.




---
"typeface-droid-sans": "0.0.40"
Author: Kyle Mathews <mathews.kyle@gmail.com

LICENSE: MIT
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Bart Kiers / Component(s): ANTLR Python Grammar 3.6

```
/*
 * The MIT License (MIT)
 *
 * Copyright (c) 2014 by Bart Kiers
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use,
 * copy, modify, merge, publish, distribute, sublicense, and/or sell
 * copies of the Software, and to permit persons to whom the
 * Software is furnished to do so, subject to the following
 * conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 * OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 * HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 * WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
 * OTHER DEALINGS IN THE SOFTWARE.
 *
 * Project      : python3-parser; an ANTLR4 grammar for Python 3
 *                https://github.com/bkiers/python3-parser
 * Developed by : Bart Kiers, bart@big-o.nl
 */
```

Provider: Barthelemy Dagenais / Component(s): py4j 0.10.9

```
Copyright (c) 2009-2018, Barthelemy Dagenais and individual contributors.
 All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
- Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

- The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Bastien Lemale / Component(s): scaffeine 2.5.0

```
blemale/scaffeine 2.5.0
COPYRIGHT: (C) Bastien Lemale
LICENSE:  Apache 2.0

                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
```

```
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
        (a) You must give any other recipients of the Work or
            Derivative Works a copy of this License; and

        (b) You must cause any modified files to carry prominent notices
            stating that You changed the files; and

        (c) You must retain, in the Source form of any Derivative Works
            that You distribute, all copyright, patent, trademark, and
            attribution notices from the Source form of the Work,
            excluding those notices that do not pertain to any part of
            the Derivative Works; and

        (d) If the Work includes a "NOTICE" text file as part of its
            distribution, then any Derivative Works that You distribute must
            include a readable copy of the attribution notices contained
            within such NOTICE file, excluding those notices that do not
            pertain to any part of the Derivative Works, in at least one
            of the following places: within a NOTICE text file distributed
            as part of the Derivative Works; within the Source form or
            documentation, if provided along with the Derivative Works; or,
            within a display generated by the Derivative Works, if and
            wherever such third-party notices normally appear. The contents
            of the NOTICE file are for informational purposes only and
            do not modify the License. You may add Your own attribution
            notices within Derivative Works that You distribute, alongside
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
```

```
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



-----------------
4P Dependencies:


com.github.ben-manes.caffeine » caffeine 2.6.2
COPYRIGHT: Copyright $L Ben Manes. All Rights Reserved.
LICENSE: Apache 2.0 https://github.com/ben-manes/caffeine/blob/v2.6.2/
LICENSE


---
org.scala-lang » scala-library 2.12.0
COPYRIGHT and LICENSE:
Scala License

Copyright (c) 2002-2019 EPFL

Copyright (c) 2011-2019 Lightbend, Inc.

All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except in compliance with the License. You may obtain a copy
 of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.


---
org.scala-lang.modules » scala-java8-compat_2.12 0.8.0

COPYRIGHT and LICENSE:
Copyright (c) 2002-2013 EPFL
Copyright (c) 2011-2013 Typesafe, Inc.

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the EPFL nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Ben Fortuna / Component(s): iCal4J 3.2.14

```
====================
top level copyright and license

BSD 3-Clause License

Copyright (c) 2012, Ben Fortuna
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
```

```
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====================================
commons-codec

Apache Commons Codec
Copyright 2002-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

===============================================================================

The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

==========================================
commons-lang3

Apache Commons Lang
Copyright Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

same Apache 2.0 license

===============================

Apache Commons Collections
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

same Apache 2.0 license

===============================
```

```
Apache Commons Validator
Copyright 2001-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

same Apache 2.0 license

==================================
slf4j-api
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Ben Johnson / Component(s): Bolt 1.3.1-coreos.6

```
URL of LICENSE file:   https://github.com/coreos/bbolt/blob/v1.3.1-coreos.6/
LICENSE
LICENSE file text:
The MIT License (MIT)

Copyright (c) 2013 Ben Johnson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
```

```
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Benjamin Peterson / Component(s): six 1.12.0

```
Copyright (c) 2010-2018 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Benoît Chesneau / Component(s): gunicorn 19.9.0

```
Gunicorn 19.9.0

2009-2018 (c) Benoît Chesneau <benoitc@e-engura.org>
2009-2015 (c) Paul J. Davis <paul.joseph.davis@gmail.com>

Gunicorn is released under the MIT license. See the LICENSE
file for the complete license.

gunicorn.logging_config
-----------------------
Copyright 2001-2005 by Vinay Sajip. All Rights Reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Vinay Sajip
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.

VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDINGALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT
 SHALL
VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR
ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
```

```
IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

gunicorn.debug
--------------

Based on eventlet.debug module under MIT license:

Unless otherwise noted, the files in Eventlet are under the following MIT
 license:

Copyright (c) 2005-2006, Bob Ippolito
Copyright (c) 2007-2010, Linden Research, Inc.
Copyright (c) 2008-2010, Eventlet Contributors (see Eventlet AUTHORS)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

gunicorn.reloader
-----------------

Based on greins.reloader module under MIT license:

2010 (c) Meebo, Inc.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

doc/sitemap_gen.py
```

```
------------------
Under BSD License :

Copyright (c) 2004, 2005, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * Neither the name of Google Inc. nor the names of its contributors
      may be used to endorse or promote products derived from this
      software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


util/unlink.py
--------------

backport frop python3 Lib/test/support.py


gunicorn/selectors.py
---------------------
Copyright (c) 2001-2016 Python Software Foundation; All Rights Reserved

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001-2016 Python Software Foundation; All Rights
Reserved" are retained in Python alone or in any derivative version prepared
by Licensee.
```

```
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
```

Provider: Berri AI / Component(s): LiteLLM 1.51.3

```
litellm
Portions of this software are licensed as follows:

* All content that resides under the "enterprise/" directory of this
 repository, if that directory exists, is licensed under the license defined
 in "enterprise/LICENSE".
* Content outside of the above mentioned directories or restrictions above
 is available under the MIT license as defined below.
---
MIT License

Copyright (c) 2023 Berri AI

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------Third Party
 Info------------------------------
aiohttp
 Copyright aio-libs contributors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-----------------------------------------------------------------------
click
BSD License
Copyright 2014 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------
 importlib_metadata
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
See the License for the specific language governing permissions and
limitations under the License.

On Debian-based systems the full text of the Apache version 2.0 license
can be found in `/usr/share/common-licenses/Apache-2.0'.
----------------------------------------------------------------------
Jinja2
BSD License
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------------------------------------------------------
jsonschema

MIT License
Copyright (c) 2013 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

```
---------------------------------------------------------------------
openai
Apache Software License
Copyright 2024 OpenAI
---------------------------------------------------------------------
pydantic
MIT License
The MIT License (MIT)

Copyright (c) 2017 to present Pydantic Services Inc. and individual
 contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------------------------------------------------------------------
python-dotenv
BSD 3-Clause License
Copyright (c) 2014, Saurabh Kumar (python-dotenv), 2013, Ted Tieken (django-
dotenv-rw), 2013, Jacob Kaplan-Moss (django-dotenv)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

- Neither the name of django-dotenv nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
```

```
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------
requests
Copyright 2019 Kenneth Reitz
 Apache Software License (Apache-2.0)
---------------------------------------------------------------------
tiktoken
MIT License

Copyright (c) 2022 OpenAI, Shantanu Jain

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------------------------------------------------------------------
tokenizers
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------Fourth Party
 Info--------------------------------
aiohappyeyeballs

A. HISTORY OF THE SOFTWARE
--------------------------

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
```

```
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
---------------------------------------------------------------

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------
```

```
1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").
```

```
2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".
```

```
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
```

```
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
----------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.


_____________________________________________________
aiosignal
Apache 2.0
Copyright 2013-2019 Nikolay Kim and Andrew Svetlov
-----------------------------------------------
attrs
MIT License
The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the attrs contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------------------
frozenlist
Apache 2.0
Copyright 2013-2019 Nikolay Kim and Andrew Svetlov

-----------------------------------------------
multidict
Apache 2.0
Copyright 2016 Andrew Svetlov and aio-libs contributors
```

```
----------------------------------------------
yarl
Apache Software License

----------------------------------------------

---------------------------Licenses----------------------------
Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
```

```
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
```

```
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
----------------------------------------------
zipp
MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

----------------------------------------------
markupsafe
BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
jsonschema-specifications
MIT License
Copyright (c) 2022 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
referencing
MIT License
Copyright (c) 2022 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
rpds-py
MIT License
Copyright (c) 2023 Julian Berman
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-----------------------------------------------
anyio
MIT License
The MIT License (MIT)

Copyright (c) 2018 Alex Grönholm

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------
distro
Apache Software License

httpx
BSD License
Copyright © 2019, [Encode OSS Ltd](https://www.encode.io/).
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
Jiter
The MIT License (MIT)

Copyright (c) 2022 to present Samuel Colvin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
----------------------------------------------

sniffio : 1.3.1
Apache Software License; MIT License
This software is made available under the terms of *either* of the
licenses found in LICENSE.APACHE2 or LICENSE.MIT. Contributions to are
made under the terms of *both* these licenses.
The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
```

```
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------
tqdm
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: #96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
----------------------------------------------
typing_extensions
Python Software Foundation License
A. HISTORY OF THE SOFTWARE
__________________________

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
```

```
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
_______________________________________________________________

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
```

```
7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------
```

```
1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
```

```
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
-------------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------
annotated-types
MIT License
The MIT License (MIT)

Copyright (c) 2022 the contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
pydantic_core
MIT License
The MIT License (MIT)

Copyright (c) 2022 Samuel Colvin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
certifi
Mozilla Public License 2.0 (MPL 2.0)
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $
```

```
----------------------------------------------
charset-normalizer
MIT License
MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
----------------------------------------------
idna
BSD License
BSD 3-Clause License

Copyright (c) 2013-2024, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----------------------------------------------
```

```
urllib3
MIT License
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
regex
Apache 2.0
Copyright 2020 Matthew Barnett

----------------------------------------------
huggingface-hub
Apache Software License
```

Provider: Bertrand Bordage / Component(s): django-cachealot 1.5.0

```
Copyright (c) 2014-2016, Bertrand Bordage
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of django-cachalot nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
```

```
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------
Dependencies

------------

Django

Copyright (c) Django Software Foundation and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. Neither the name of Django nor the names of its contributors may be
 used
       to endorse or promote products derived from this software without
       specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: BinaryAge Limited / Component(s): cljs-devtools 0.8.2

```
Copyright (c) BinaryAge Limited and contributors:
https://github.com/binaryage/cljs-devtools/graphs/contributors

MIT License

Permission is hereby granted, free of charge, to any person obtaining
```

```
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Boost Software / Component(s): Boost C++ Libraries 1.67.0

```
From LICENSE_1_0.txt file in downloaded package

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: Boost Software / Component(s): Boost C++ Libraries 1.73.0

```
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
```

```
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

The following people hereby grant permission to replace all existing
licenses on their contributions to Boost with the Boost Software
License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message
 of August 12,
2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21
 Jul 2004
11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004
 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list
 message of Mon,
30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August
 12, 2004
11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004
 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change
 log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec
 2003 15:35:50
-0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see
 change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu,
 doug.gregor -at-
gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change
 log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15
 Aug 2004
10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
```

```
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb
 2004 14:22:46
-0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see
 change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List
 message of Mon, 16
Aug 2004 10:09:19 +0200)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative
 spelling of Gottfried
Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat,
 14 Aug 2004
10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of
 Sat, 14 Aug
2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List
 message of Mon, 16
Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herve Bronnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July
 25, 2004
3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jarvi (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu,
 16 Sep 2004
09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of
 July 25, 2004
19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of
 July 25, 2004
8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of
 Fri, 13 Aug
2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15
 Sep 2004
18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August
 16, 2004
8:23:35 AM EST)
Lars Gullik Bjonnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17
 Aug 2004
15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18
 Aug 2004
21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
```

```
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at-
 even-ag.ch) (See
CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of
 Mon, 30 Aug
2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17
 Aug 2004
15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July
 21, 2004
1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com)
 (See Boost list
post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug
 2004 22:16:55
+0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see
 change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of
 Mon, 27 Sep
2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue,
 28 Sep 2004
13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
The Trustees of Indiana University ()
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at
 -
styleadvisor.com)
Thorsten Jurgen Ottosen (nesotto - at - cs.auc.dk)
Thorsten Ottosen (nesotto - at - cs.auc.dk)
Toon Knapen (toon dot knapen - at - fft.be)
Trustees of Indiana University ()
University of Notre Dame ()
Vladimir Prus (ghost@cs.msu.su)
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list
 Mon, 17 Sep 2007
10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-
owner@lists.boost.org Sep 2007
13:20:09 +0200)

--- END ---
3 - 3  -----------------------------------
Per File License Statement not covered by Top Level or Blanket Grant:

Copyright (C) {owner}
Use, modification and distribution is subject to the
```

```
Boost Software License, Version 1.0. (See accompanying * file
 LICENSE_1_0.txt or
http://www.boost.org/LICENSE_1_0.txt)

Where the an owner listed below replaces '{owner}' in the copyright
 declaration above as
represented in their respective source files.

(geolib/GGL), copyright 1995-2010 Geodan, Amsterdam, the Netherlands
A N Other
ARM Limited
Aaron Graham
Aaron W. LaFramboise, Roland Schwarz, Michael Glassford
Aaron Windsor
Abel Sinkovics
Abel Sinkovics (abel@sinkovics.hu)
Abel Sinkovics (abel@sinkovics.hu) 2009 -
Abel Sinkovics (abel@sinkovics.hu) 2010 -
Abel Sinkovics (abel@sinkovics.hu) 2011 -
Adam D. Walling
Adam Wulkiewicz, Lodz, Poland
Adeel Ahmad, Islamabad, Pakistan
Adobe Systems Inc
Adobe Systems Incorporated
Agustin Berge
Agustin K-ballo Berge
Ahmed Charles
Akira Takahashi
Aladdin Enterprises. All rights reserved
Alain Miniussi
Alain Miniussi & Steffen Hirschmann
Albert Sverdlov
Alberto Santini
Aleksey Gurtovoy
Alex Korobka
Alexander Grund
Alexander Grund 2018. Corrections to singleton lifetime
Alexander Lauser
Alexander Nasonov
Alexander Nasonov & Paul A. Bristow
Alexander Peslyak
Alexander Zaitsev <zamazan4ik@gmail.com>
Alexandre Courpron
Alexey Baskakov
Alfredo Correa
Alisdair Meredith
Andreas Angelopoulos
Andreas Hehn <hehn@phys.ethz.ch>, ETH Zurich
Andreas Huber Doenni
Andreas Huber Doenni 2002-2005, Eric Niebler
Andreas Pokorny
Andreas Pokorny, Christian Henning
Andreas Scherer, Jeremy Siek, Lie-Quan Lee
Andrei Alexandrescu
Andrew Hundt
Andrew Ross
Andrew Sutton
Andrey Semashev
Andrii Sydorchuk
Andrzej Krzemienski
Andrzej Krzemieski
Andy Tompkins
Angus Leeming
Ankit Daftery
```

```
Ankur Sinha
Anthony Williams
Anton Bikineev
Antony Polukhin
Arkadiy Vertleyb
Arkadiy Vertleyb, Peder Holt
Arnaud Kapp, Oliver Kowalke
Arno Schoedl & Neil Groves
ArtVPS Ltd
Artur Shepilko
Artyom Beilis
Ashish Sadanandan
Athanasios Iliopoulos
Austin Beer
Austin J. Beer
Balint Cserni
Barend Gehrels
Barend Gehrels Geodan, Amsterdam, the Netherlands
Barrett Adair
Baruch Zilber
Beman Daves
Beman Dawes, Dave Abrahams
Beman Dawes, William E. Kempf
Ben Hanson
Ben Hutchings
Ben Pope
Benjamin Schindler
Benjamin Sobotta
Benjamin Worpitz
Benoit Dequidt
Bertolt Mildner
Bill Gallafent
Bill Kempf
Bjorn Reese
Bjorn Roald
Bojan Resnik
Boris Gubenko
Boris Rasin
Boris Rasin and Antony Polukhin
Boris Rasin, Antony Polukhin
Boris Schaeling
Brad King
Brad King and Douglas Gregor
Brandon Kohn
Brian Kuhl
Brian McNamara and Yannis Smaragdakis
Brian O'Kennedy
Brian Ravnsgaard Riis
Brian Ravnsgaard and Kenneth Riddile
Bruce Barr
Bruce Florman
Bruno Dutra
Bruno Lalande
Bruno Lalande, Paris, France
Bryce Lelbach
Cadenza New Zealand Ltd
Carl Barron
Carl Philipp Reh
Cem Bassoy
Charles Karney
Charly Chevalier
Chris Anderson
Chris Glover
Chris Hoeppler
```

```
Chris Uzdavinis
Christian Henning
Christian Henning and Juan V. Puertos
Christian Henning, Andreas Pokorny
Christian Henning, Andreas Pokorny, Lubomir Bourdev
Christian Henning, Lubomir Bourdev
Christian Mazakas
Christian Shelton
Christof Meerwald
Christoper Kohlhoff
Christoph Koke
Christoph Ludwig
Christoph Weiss
Christophe Henry
Christopher Brown
Christopher Diggins
Christopher Jefferson
Christopher Kormanyos
Christopher M. Kohlhoff
Christopher Schmidt
Christopher Schmidt, Nathan Ridge
Christopher Seiwald
Christopher Seiwald and Perforce Software, Inc
Christopher Seiwald. All rights reserved
Chuck Allison and Jeremy Siek
Chung-Lin Wen
Chung-Lin Wen, Davide Anastasia
CodeRage, LLC
Colin Rundel
Copyright2016 Francisco Jose Tapia (fjtapia@gmail.com )
Cortex Software GmbH
Craig Henderson
Cray, Inc
Cromwell D. Enage
CrystalClear Software, Inc
D. E. Shaw Research
Damian Jarek
Damien Buhl
Dan Marsden
Dan Nuffer
Dan Watkins
Daniel C. Nuffer
Daniel Egloff
Daniel Egloff, Eric Niebler
Daniel Egloff, Olivier Gygi
Daniel Frey
Daniel Frey and Robert Ramey
Daniel James
Daniel K. O
Daniel Nuffer
Daniel Trebbien
Daniel Walker
Daniel Walker, Eric Niebler, Michel Morin 2008-
Daniel Wallin
Daniel Wallin 2005. distribution is
Daniel Wallin, David Abrahams
Daniel Wallin, Eric Niebler
Daniela Engert
Danny Havenith
Darin Adler
Daryle Walker
Daryle Walker and Stephen Cleary
Datasim Education BV
Dave Abrahams
```

```
Dave Abrahams and Daryle Walker
Dave Abrahams, Steve Cleary, Beman Dawes
Dave Abrahams, Steve Cleary, Beman Dawes, Howard
David Abrahams Steve Cleary, Beman Dawes, Howard
David Abrahams and Aleksey Gurtovoy
David Abrahams and Gottfried Ganssauge
David Abrahams and Jeremy Siek
David Abrahams and Nikolay Mladenov
David Abrahams and Thomas Becker
David Abrahams, Daniel Wallin
David Abrahams, Jeremy Siek, Daryle Walker
David Abrahams, Jeremy Siek, and Thomas Witt
David Abrahams, Matthias Troyer, Michael Gauckler
David Abrahams, Vicente Botet
David Abrahams, Vicente Botet, Ion Gaztanaga
David Bailey
David Bellot
David Deakins
David Doria
David Gleich
David Jenkins
David Stone
Davide Anastasia
Dean Michael Berris
Denis Demidov
Dezide Aps
Dietmar Kuehl
Dmitry Arkhipov
Dmitry Bufistov and Andrey Parfenov
Dmitry Bufistov, Andrew Sutton
Doug Gregor
Douglas Gregor
Douglas Gregor and Jeremy Siek
Dr John Maddock
Duncan Exon Smith
Dustin Spicuzza
Dynatrace
Edward Diener
Edward Grace
Emil Dotchevski
Emil Dotchevski and Reverge Studios, Inc
Eric Bose-Wolf
Eric Ford & Hubert Holin
Eric Friedman
Eric Friedman, Itay Maman
Eric Jourdanneau, Joel Falcou
Eric Moyer
Eric Niebler
Eric Niebler, Michael Gauckler
Eric Niebler, Olivier Gygi
Eric Niebler. Distributed
Erik Bryan
Erik Erlandson
Eurodecision
Even Rouault
Evgeny Shulgin
Fabien Castan, Christian Henning
Fady Essam
Federico J. Fernandez
Felipe Tanus, Boris Schaeling
Felipe Tanus, Jeff Flinn, Boris Schaeling2016 Klemens D. Morgenstern<p>
Felix E. Klee
Felix Salfelder
Fernando Luis Cacciola Carballal
```

```
Fernando Vilas
Flavio De Lorenzi
Francisco Jose Tapia
Francois Barel
Francois Faure
Francois Faure, iMAGIS-GRAVIR / UJF
Francois Mauger
Frank Birbacher
Frank Hein
Frank Mori Hess
Frank Warmerdam
Franz Detro
Frederic Bron
Frederic Bron, Robert Stewart, Steven Watanabe & Roman Perepelitsa
Free Software Foundation
Gaetano Mendola, Simon West
Garmin Ltd. or its subsidiaries
Gary Powell
Gautam Sewani
Gennadiy Rozental
Gennadiy Rozental & Ullrich Koethe
Gennaro Prota
Georg Fritzsche
Gerald Evenden
Gerald I. Evenden
Giel van Schijndel
Gilles Vollant
Giovanni Bajo
Glen Fernandes
Glen Joseph Fernandes
Gonzalo Brito Gadeschi
Google, Inc
Gordon Woodhull
Greg Colvin and Beman Dawes
Gregor de Cillia
Guillaume Melquiond
Gunter Winkler
Gustavo Guerra
H Lohninger, TU Wein
Hannes Hofmann
Hans Dembinski
Hartmut Kaiser
Head Geek
Helge Bahmann
Henrik Ravn
Herve Bronnimann
Housemarque Oy
Howard Hinnant
Hubert Holin
Hubert Holin and Daryle Walker
IBM Corp
Ian Forbed
Ignacy Gawedzki
Igor Chesnokov
Igor R
Ilya Murav'jov
Ilya Sokolov
Ilya Sokolov, Boris Schaeling
Indiana University
Info-ZIP. All rights reserved
Institute of Transport
Intel Corporation
Ion Gaztanaga
Jaakko Jarvi
```

```
Jaap Suter
Jakob Lykke Andersen, University of Southern Denmark
Jakub Pola
Jakub Szuppe
Jamboree
James E. King, III
Jan Frederick Eick
Jan Gaspar
Jan Langer
Jane Doe
Jason Rhinelander
Jason Rice
Jean-Francois Ostiguy
Jean-loup Gailly
Jean-loup Gailly and Mark Adler
Jean-loup Gailly, Mark Adler
Jeff Flinn, Boris Schaeling
Jeff Garland and Beman Dawes
Jeff Westfahl
Jeffrey E. Trull
Jeffrey Hellrung
Jeffrey Lee Hellrung, Jr
Jens Maurer
Jeremiah Willcock
Jeremy B. Maitin-Shepard
Jeremy G. Siek
Jeremy G. Siek, Andrew Lumsdaine, Lie-Quan Lee
Jeremy Murphy
Jeremy Siek
Jeremy Siek and Andrew Lumsdaine
Jeremy Siek and Andrew Lumsdaine, David Abrahams
Jeremy Siek and John R. Bandela
Jeremy Siek and Marc Wintermantel
Jeremy Siek, David Abrahams
Jeremy Siek, Douglas Gregor, Brian Osman
Jeremy Siek, Lie-Quan Lee, and Andrew Lumsdaine
Jeremy W. Murphy
Jeremy William Murphy
Jeroen Habraken
Jesse Jones
Jesse Williamson
Jessica Hamilton
Jim Bell
Jim Bosch
Jim Bosch & Ankit Daftery
Jim Douglas
Joachim Faulhaber
Joao Abecasis
Joaquim Duran
Joaquin M Lopez Munoz
Joel Falcou
Joel de Guzman
Joel falcou
Joerg Becker
Joerg Walter, Mathias Koch
Joerg Walter, Mathias Koch, David Bellot
Johan Rade
John Fletcher
John Maddock
John Maddock & Paul A. Bristow
John Maddock & Steve Cleary
John Maddock & Thorsten Ottosen
John Maddock, Antony Polukhin
John R. Bandela
```

```
John Z. Maddock
Jonathan Brandmeyer
Jonathan Graehl
Jonathan Turkanis
Jonathan de Halleux
Jong Soo Park
JongSoo Park
Jordan DeLong
Jorge Lodos
Joseph Gauterin
Joseph Gauterin, Niels Dekker
Josh Wilson
Joyent, Inc. and other Node contributors
Juan Carlos Arevalo-Baeza
Juan V. Puertos G-Cluster, Christian Henning
Juergen Hunold
Julian Seward
Julio M. Merino Vidal
Jurko Gospodnetic
Just Software Solutions
Justinas Vygintas Daugmaudis
K R Walker
K. Noel Belcourt
Karolin Varner
Karsten Ahnert
Keith MacDonald
Keld Helsgaun 2000, Oliver Kowalke
Kenneth Riddile
Kenneth Riddile, Christian Henning
Kevlin Henney
Kevlin Henney and Dave Abrahams
Kiyoshi Matsui
Klemens D. Morgenstern
Klemens Morgenstern
Klemens Morgenstern, Antony Polukhin
Kohei Takahashi
Kris Beevers
Kristian Popov
Kristopher Beevers
Krzysztof Czainski
Kwan Ting Chan
Kyle Lutz
LASMEA UMR 6602 CNRS/Univ. Clermont II
LRI UMR 8623 CNRS/Univ Paris Sud XI
LRI UMR 8623 CNRS/University Paris Sud XI
Larry Evans
Lars Kielhorn
Laurent Gomila
Lee Clagett
Lee Hodgkinson
Leo Goodstadt
Levon Tarakchyan
Lie-Quan Lee
Lie-Quan Lee and Jeremy Siek
Lingxi Li
Lorenzo Caminiti
Louis Dionne
Louis Dionne, Antony Polukhin
Lubomir Bourdev and Hailin Jin
Lucanus Simonson
Maarten Hilferink, Amsterdam, the Netherlands
Maarten Keijzer
Maciej Piechotka
Mageswaran.D
```

```
Marc Wintermantel
Marcin Kalicinski
Marco Guazzone
Marek Kurdej
Mario Lang
Mario Mulansky
Mario Suvajac
Mark Adler
Mark Rodgers
Markus J. Weber
Markus Schoepflin
Marshall Clow
Martin Ecker
Martin Lambers
Martin Raspaud
Martin Wille
Mat Marcus
Matei David
Mateusz Loskot
Mathias Gaunard
Mathias Svensson
Matias Capeletto
Matthew Calabrese
Matthew Pulver
Matthias Born
Matthias Christian Schabel
Matthias Troyer
Matthias Troyerk
Matthias Vallentin
Matthias Walter
Matyas Egyhazy
MetaScale SAS
Michael Caisse
Michael Drexl
Michael Glassford
Michael Hansen
Michael Marcin
Michael Stevens
Michael Stevens, Mathias Koch
Michael van der Westhuizen
Michel Morin
Michele Caini
Microsoft Corporation
Mike Dev
Mikhail Maximov
Milan Svoboda
Minmin Gong
Modified Work Barrett Adair
Muhammad Junaid Muzammil
NVIDIA CORPORATION
Nakhar Agrawal
Nasos Iliopoulos, Gunter Winkler
Nat Goodspeed
Nathan Ridge
Neil Groves
Netscape Communications
Niall Douglas
Nicholas Thompson
Nick Thompson
Nicolai M. Josuttis
Niels Dekker
Nikhar Agrawal
Nikita Kniazev
Nikolay Mladenov
```

```
Noel Belcourt
Norbert Wenzel
NumScale SAS
Nuovation System Designs, LLC
Nuxi
Olaf Krzikalla
Olaf Peter
Oliver Kowalke
Olivier Gygi, Daniel Egloff
Olivier Tournaire
Olivier Tournaire, Christian Henning
Oracle and/or its affiliates
Orson Peters
Oswin Krause
Oxford Nanopore Technologies
Pablo Aguilar
Pablo Halpern
Pascal Germroth
Paul A. Bristow
Paul Bristow
Paul Fultz II
Paul Heil
Paul Lin
Paul Mensonides
Paul Moore
Paul a. Bristow
Pavel Baranov
Pavel Vozenilek
Pavel Vozenilek and Robert Ramey
Pavol Droba
Pearson Education, Inc.
Peder Holt
Peter Dimov
Peter Dimov and David Abrahams
Peter Dimov and Multi Media Ltd
Peter Schueller
Petr Machata, Red Hat Inc
Phil Endecott
Philipp Moeller
Pierre Esterie & Joel Falcou
Pierre Talbot
Pieter Bastiaan Ober
Piotr Wyderski
Piotr Wygocki
Python Software Foundation; All Rights
R.W. Grosse-Kunstleve
Raffi Enficiaud
Raghavendra Satish
Rajeev Singh
Ralf Mattethat
Ralf W. Grosse-Kunstleve
Ralf W. Grosse-Kunstleve & David Abrahams
Rani Sharoni
Rastko Anicic
Rational Discovery LLC
Redshift Software, Inc
Reece H. Dunn
Renato Tegon Forti
Renato Tegon Forti, Antony Polukhin
Rene Rivera
Rene Rivera, Johan Nilsson
Rensselaer Polytechnic Institute
Rep Invariant Systems, Inc.
Riccardo Marcangelo
```

```
Robert Nelson
Robert Ramey
Robert Ramey Jonathan Turkanis
Robert Ramey and Joaquin M Lopez Munoz
Robert Ramey and Martin Ecker
Robert Ramey, Indiana University
Robert Ramey, Martin Ecker and Takatoshi Kondo
Robin Eckert
Robin Linden
Roelof Naude
Roji Philip
Roland Richter
Roland Schwarz
Ronald Garcia, Indiana University
Ronald Garcia, Jeremy Siek
Roshan
Ross Smith
Runar Undheim, Robert Ramey & John Maddock
Ruslan Baratov
Ryan Molden
Sam Nabialek
Samuel Debionne, Grenoble, France
Samuel Krempp
Samuli-Petrus Korhonen
Sascha Ochsenknecht
Sebastian Ramacher
Sebastian Redl
Sergey GooRoo Olendarenko
Sergey Krivonos
Sergey Nizovtsev
Sergey Shandar, Alexander Nasonov
Seth Heeren
Shreyans Doshi
Shunsuke Sogame
Simon West
Simonson Lucanus
Spirent Communications, Inc
Stanford University
Stefan Arentz
Stefan Seefeld
Stefan Slapeta
Steffen Hirschmann
Stephan Diederich
Stephen Cleary
Stephen Nutt
Stephen Silver
Steve Cleary & John Maddock
Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant & John Maddock
Steve Cleary, Beman Dawes, Howard
Steve Cleary, Beman Dawes, Howard Hinnant & John Maddock
Steven J. Ross
Steven Watanabe
Steven Watanabe, Joseph Gauterin, Niels Dekker
Sylvain Pion
Synge Todo
Szabolcs Toth (thszabi@gmail.com)
T. Zachary Laine
Technical University of Catalonia
Terje Sletteb and Kevlin Henney
The Trustees of Indiana University
Thijs van den Berg
Thomas Bernard
Thomas Claveirole
Thomas Flemming, tf@ttqv.com
```

```
Thomas Guest
Thomas Heller
Thomas Kent
Thomas Mang
Thomas Witt
Thomas Witt, Jeremy Siek
Thorsten Ottosen
Thorsten Ottosen & Larry Evans
Thorsten Ottosen, Neil Groves
Thorsten Ottosen. distribution is
Tiago de Paula Peixoto
Tim Blechmann
Timmo Stange
Tobias Loew
Tobias Schwinger
Tom Hughes
Tom Tan
Tom Westerhout
Tomas Puverle
Tomoki Imai
Tony Lewis
Toon Knapen
Tor Brede Vekterli
Troy D. Straszheim
Trustees of Indiana University
Universite Joseph Fourier, Grenoble
University of Karlsruhe
University of Notre Dame
University of Toronto
University of Warsaw
Vaclav Vesely
Vahan Margaryan
Valentin Noah Hartmann
Vesa Karvonen
Vicente Botet
Vicente J. Botet Escriba
Vinnie Falco
Vladimir Batov
Vladimir Prus
Vladimir Prus and Robert Ramey
Vladimir Prus, Robert Ramey and Takatoshi Kondo
Voipster / Indrek dot Juhani at voipster dot com
Vyacheslav E. Andrejev
W.P. McNeill
William E. Kempf
Xiaogang Zhang
Xiaogang Zhang, John Maddock
Yaghyavardhan Singh Khangarot, Hyderabad, India
Yi Ji
Your copyright notice
Yuriy Krasnoschek
Zach Laine
gate-pris
rett Adair
the Sphinx team
think-cell GmbH
yyyy yyyy <typhoonking77@hotmail.com>
```

Provider: Brady Holt / Component(s): cronstrue 2.50.0

```
The MIT License (MIT)
```

```
Copyright (c) 2017 Brady Holt

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Brett Woolridge / Component(s): HikariCP 5.0.1

```
HikariCP (com.zaxxer:HikariCP)
  Copyright (C) 2013,2019 Brett Wooldridge

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
---------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

---------------------------------------------
Fourth Party Runtime Dependencies
---------------------------------------------
"SLF4J API Module" (org.slf4j:slf4j-api)
  Copyright (c) 2004-2019 QOS.ch

The MIT License SPDX short identifier: MIT
```

```
Further resources on the MIT License Copyright

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------------------
```

Provider: Brian Lopez, et al / Component(s): yajl-ruby 1.4.3-e8de283

```
The MIT License (MIT)

Copyright (c) 2014 Brian Lopez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
## Third Party Sources Bundled

This project includes code from the BSD licensed yajl project, copyright
 2007-2009 Lloyd Hilaiel
```

```
 * Copyright 2010, Lloyd Hilaiel.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions are
 * met:
 *
 *  1. Redistributions of source code must retain the above copyright
 *     notice, this list of conditions and the following disclaimer.
 *
 *  2. Redistributions in binary form must reproduce the above copyright
 *     notice, this list of conditions and the following disclaimer in
 *     the documentation and/or other materials provided with the
 *     distribution.
 *
 *  3. Neither the name of Lloyd Hilaiel nor the names of its
 *     contributors may be used to endorse or promote products derived
 *     from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 * DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
 * INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
 * IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */
```

Provider: Brian McCallister / Component(s): jdbi3-core 3.45.1

```
------------------------------- Top-level license -------------------------

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------
Copyright (C) 2004 - 2024 Brian McCallister

---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 1
geantyref

== License

Apache 2.0 ( same as jdbi3-core )
```

Provider: Brian McCallister / Component(s): jdbi3-sqlobject 3.45.1

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
```

```
   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------

Copyright (C) 2004 - 2024 Brian McCallister
```

Provider: Brian Turek, Paul Johnston & Contributors / Component(s): jsSHA 2.3.1

```
Copyright (c) 2008-2018 Brian Turek, 1998-2009 Paul Johnston & Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name of the the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from this
   software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: BSD / Component(s): cats 1.0.0

```
Copyright © 2016 sunsite.ru

Distributed under the Eclipse Public License either version 1.0 or (at your
 option) any later version.
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

C to E

Provider: Canonical Ltd. / Component(s): yaml 3.0.1

```
Yaml

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

    apic.go emitterc.go parserc.go readerc.go scannerc.go
    writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
### Apache License ###

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

------------------
SPDX:Apache-2.0


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Canonical Ltd. / Component(s): yaml.v2 2.2.1

```
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
    yamlh.go
    yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Canonical Ltd. / Component(s): yaml.v2 2.2.2

```
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
```

```
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
    yamlh.go
    yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Canonical Ltd. / Component(s): yaml.v2 7b8349a

```
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

 Apache License
```

```
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
    yamlh.go
    yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Carl Lerche + nix-rust Authors / Component(s): rust-nix 0.8.0

```
The MIT License (MIT)

Copyright (c) 2015 Carl Lerche + nix-rust Authors
- bitflags 0.7.0  Copyright (c) 2014 The Rust Project Developers
- cfg-if 0.1.1  Copyright (c) 2014 Alex Crichton
- rust-libc 0.2.21  Copyright (c) 2014 The Rust Project Developers
- rustvoid 1.0.2 Copyright (c) 2015 The rust-void Developers

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Carl Lerche + nix-rust Authors / Component(s): rust-nix 0.9.0

```
The MIT License (MIT)

Copyright (c) 2015 Carl Lerche + nix-rust Authors
- bitflags 0.7.0  Copyright (c) 2014 The Rust Project Developers
- cfg-if 0.1.1  Copyright (c) 2014 Alex Crichton
- rust-libc 0.2.21  Copyright (c) 2014 The Rust Project Developers
- rustvoid 1.0.2 Copyright (c) 2015 The rust-void Developers

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Cedric Beust / Component(s): jcommander 1.30

```
See the License for the specific language 1. Include the following verbatim
 in the documentation:

[DEVELOPMENT SHALL ENSURE AND INPUT NOTICE FILE CONTENTS HERE, IF ANY ]

2. Include the following License ONLY ONCE in the documentation even if
 there are multiple products licensed under the license.

The following applies to all products licensed under the Apache 2.0 License:
```

```
You may not use the identified files except in compliance with the Apache
 License, Version 2.0 (the "License.")

You may obtain a copy of the License at http://www.apache.org/licenses/
LICENSE-2.0.  A copy of the license is also reproduced below.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
```

```
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
1. You must give any other recipients of the Work or Derivative Works a copy
 of this License; and
2. You must cause any modified files to carry prominent notices stating that
 You changed the files; and
3. You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
4. If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
```

```
 assume any risks associated with Your exercise of permissions under this
 License.
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work
To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Chad Fowler, Rich Kilmer, Jim Weirich and others / Component(s): RubyGems 3.1.6-137.module+el8.4.0+20269+fcbf533e

```
LICENSE.TXT

The MIT License (MIT)

RubyGems is copyrighted free software by Chad Fowler, Rich Kilmer, Jim
Weirich and others. You can redistribute it and/or modify it under
either the terms of the MIT license (see the file MIT.txt), or the
conditions below:

1. You may make and give away verbatim copies of the source form of the
software without restriction, provided that you duplicate all of the
original copyright notices and associated disclaimers.
```

```
2. You may modify your copy of the software in any way, provided that
you do at least ONE of the following:

a. place your modifications in the Public Domain or otherwise
make them Freely Available, such as by posting said
modifications to Usenet or an equivalent medium, or by allowing
the author to include your modifications in the software.

b. use the modified software only within your corporation or
organization.

c. give non-standard executables non-standard names, with
instructions on where to get the original software distribution.

d. make other distribution arrangements with the author.

3. You may distribute the software in object code or executable
form, provided that you do at least ONE of the following:

a. distribute the executables and library files of the software,
together with instructions (in the manual page or equivalent)
on where to get the original distribution.

b. accompany the distribution with the machine-readable source of
the software.

c. give non-standard executables non-standard names, with
instructions on where to get the original software distribution.

d. make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other
software (possibly commercial).

5. The scripts and library files supplied as input to or produced as
output from the software do not automatically fall under the
copyright of the software, but belong to whomever generated them,
and may be sold commercially, and may be aggregated with this
software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.

MIT.txt
-----------------
Copyright (c) Chad Fowler, Rich Kilmer, Jim Weirich and others.
Portions copyright (c) Engine Yard and Andre Arko

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
```

```
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.





--------------------------------
3rd Party

rubygem-openssl

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>.
You can redistribute it and/or modify it under either the terms of the
2-clause BSDL (see the file BSDL), or the conditions below:

  1. You may make and give away verbatim copies of the source form of the
     software without restriction, provided that you duplicate all of the
     original copyright notices and associated disclaimers.

  2. You may modify your copy of the software in any way, provided that
     you do at least ONE of the following:

       a) place your modifications in the Public Domain or otherwise
          make them Freely Available, such as by posting said
   modifications to Usenet or an equivalent medium, or by allowing
   the author to include your modifications in the software.

       b) use the modified software only within your corporation or
          organization.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.

  3. You may distribute the software in object code or binary form,
     provided that you do at least ONE of the following:

       a) distribute the binaries and library files of the software,
   together with instructions (in the manual page or equivalent)
   on where to get the original distribution.

       b) accompany the distribution with the machine-readable source of
   the software.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.

  4. You may modify and include the part of the software into any other
     software (possibly commercial).  But some files in the distribution
     are not written by the author, so that they are not under these terms.

     For the list of those files and their copying conditions, see the
     file LEGAL.

  5. The scripts and library files supplied as input to or produced as
     output from the software do not automatically fall under the
```

```
     copyright of the software, but belong to whomever generated them,
     and may be sold commercially, and may be aggregated with this
     software.

  6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
     IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
     WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
     PURPOSE.

BDSL License
-----------------
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.





rubygem-psych
------------------------------
MIT License

Copyright (c) 2009 Aaron Patterson, et al.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Charlie Robbins / Component(s): winston 3.3.3

```
Copyright (c) 2010 Charlie Robbins

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
 "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

---------separator---------
async@2.6.1 (MIT)
Copyright (c) 2010-2018 Caolan McMahon

diagnostics@1.1.1 (MIT)
Copyright (c) 2015 Arnout Kazemier, Martijn Swaagman, the Contributors.

is-stream@1.1.0 (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

logform@1.10.0 (MIT)
Copyright (c) 2017 Charlie Robbins & the Contributors.

one-time@0.0.4 (MIT)
Copyright (c) 2015 Unshift.io, Arnout Kazemier,  the Contributors.

stack-trace@0.0.10 (MIT)
Copyright (c) 2011 Felix Geisendörfer (felix@debuggable.com)

triple-beam@1.3.0 (MIT)
Copyright (c) 2017 winstonjs

winston-transport@4.2.0 (MIT)
Copyright (c) 2015 Charlie Robbins & the contributors.

async@2.6.1
diagnostics@1.1.1
logform@1.10.0
one-time@0.0.4
stack-trace@0.0.10
triple-beam@1.3.0
winston-transport@4.2.0

Permission is hereby granted, free of charge, to any person obtaining
```

```
a copy of this software and associated documentation files (the
 "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

This license applies to parts of Node.js originating from the https://
github.com/joyent/node repository:

""" Copyright Joyent, Inc. and other Node contributors. All rights
 reserved.
Permission is hereby granted, free of charge, to any person obtaining a
 copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the
 rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE. """
```

Provider: Chas Emerick / Component(s): tools.nrepl 0.2.12

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1. The following files are available in source code form under the Eclipse
 Public License at: http://www.oracle.com/technetwork/opensource/opensource-
code-1366576.html. (The EPL license is reproduced below).

2. All past Contributors to tools.nrepl disclaim all warranties and
 conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose. In addition, such
 Contributors are not liable for any damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.
```

```
3. Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4. {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5. {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement. Oracle is solely responsible for any representations and
 warranties contained therein.

Copyright © 2010 - 2013 Chas Emerick and contributors.
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT’S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:


a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
 b) in the case of each subsequent Contributor:

i)changes to the Program, and

ii)additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor’s behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
```

```
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:


a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:


a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
```

```
4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor’s responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
```

```
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient’s patent(s), then such Recipient’s rights granted
 under Section 2(b) shall terminate as of the date such litigation is
 filed.

All Recipient’s rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient’s rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient’s obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Chris Hager / Component(s): logzero 1.5.0

```
MIT License

Copyright (c) 2017, Chris Hager

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
```

```
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Chris Liechti / Component(s): pyserial 3.4

```
Copyright (c) 2001-2016 Chris Liechti <cliechti@gmx.net>
All Rights Reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials provided
    with the distribution.

  * Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------
Note:
Individual files contain the following tag instead of the full license text.

    SPDX-License-Identifier:    BSD-3-Clause

This enables machine processing of license information based on the SPDX
License Identifiers that are here available: http://spdx.org/licenses/
```

Provider: Chris Pettitt / Component(s): dagre 0.8.5

```
Copyright (c) 2012-2014 Chris Pettitt

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

### Lodash 4.17.15
Copyright OpenJS Foundation and other contributors <https://openjsf.org/>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <http://
underscorejs.org/>

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code displayed within the prose of the
documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

Files located in the node_modules and vendor directories are externally
maintained libraries used by this software which have their own
licenses; we recommend you read them, as their terms may differ from the
terms above.

### graphlib 2.1.8

Copyright (c) 2012-2014 Chris Pettitt

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: cliftonlabs / Component(s): json-simple 4.0.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2016 Clifton Labs

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: CloudBees, Inc. / Component(s): Jenkins Bouncy Castle API Plugin 1.648.3

```
The MIT License

Copyright (c) 2016, CloudBees, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: CloudEvents Authors / Component(s): cloudevents-api 2.5.0

```
cloudevents-api

Copyright 2018-Present The CloudEvents Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
.
.
------------------------------- Top-level license --------------------------
.                                   Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2018-Present The CloudEvents Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: CloudEvents Authors / Component(s): cloudevents-core 2.5.0

```
------------------------------- Top-level license --------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.


   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and


      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.


   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2018-Present The CloudEvents Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
.
.
.
------------------------------- Copyright notices --------------------------
 Copyright 2018-Present The CloudEvents Authors
.
.
.
---------------------------- Fourth-party information ----------------------
```

```
== NAME OF DEPENDENCY 1
 cloudevents-api
.
== License
     Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2018-Present The CloudEvents Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

.
.
== Copyright Notices
Copyright 2018-Present The CloudEvents Authors
.
.
```

Provider: CloudEvents Authors / Component(s): cloudevents-json-jackson 2.5.0

```
------------------------------- Top-level license --------------------------
                              Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2018-Present The CloudEvents Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

.
.
.
------------------------------- Copyright notices --------------------------
 http://www.apache.org/licenses/LICENSE-2.0
.
.
.
---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 1
com.fasterxml.jackson.core jackson-core
.
== License Type
Apache License Version 2.0
.
== Copyright Notices
 # Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
```

```
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.

## Credits
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
.
.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
com.fasterxml.jackson.core Jackson-databind
.
== License Type
Apache License Version 2.0
.
== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
```

```
from the source code management (SCM) system project uses.
.
.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
com.fasterxml.jackson.core Jackson-annotations
.
== License Type
Apache License Version 2.0
.
== Copyright Notices

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
.
.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
io.cloudevents cloudevents-core
.
== License Type
Apache License Version 2.0
.
== Copyright Notices
 Copyright 2018-Present The CloudEvents Authors
.
.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 5
io.cloudevents cloudevents-api
.
== License Type
Apache License Version 2.0
.
== Copyright Notices
 Copyright 2018-Present The CloudEvents Authors
.
.
```

Provider: CloudFoundry.org Foundation, Inc. / Component(s): bosh-utils ff59874

```
Copyright (c) 2015-Present CloudFoundry.org Foundation, Inc. All Rights
 Reserved.

This project contains software that is Copyright (c) 2015 Pivotal Software,
 Inc.

This project is licensed to you under the Apache License, Version 2.0 (the
 "License").
```

```
You may not use this project except in compliance with the License.

This project may include a number of subcomponents with separate copyright
 notices
and license terms. Your use of these subcomponents is subject to the terms
 and
conditions of the subcomponent's license, as noted in the LICENSE file.


Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
```

```
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
```

```
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Coda Hale / Component(s): DropWizard 1.2.5

```
Dropwizard
```

```
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2016 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
```

```
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
```

```
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=====================================================================

Compile Dependencies

=====================================================================

Apache 2.0
dropwizard-util 1.2.5
dropwizard-jackson 1.2.5
dropwizard-validation 1.2.5
dropwizard-configuration 1.2.5
dropwizard-logging 1.2.5
dropwizard-metrics 1.2.5
dropwizard-jersey 1.2.5
dropwizard-servlets 1.2.5
dropwizard-jetty 1.2.5
dropwizard-lifecycle 1.2.5
dropwizard-logging 1.2.5
dropwizard-request-logging 1.2.5
metrics-core 3.2.5
metrics-jvm 3.2.5
metrics-servlets 3.2.5
```

```
metrics-healthchecks 3.2.5
metrics-logback 3.2.5
metrics-jetty9 3.2.5
metrics-jersey2 3.2.5
metrics-annotations 3.2.5
jsr305 3.0.2
jsr305 1.3.9
guava 23.1-jre
guava 23.5-jre
joda-time 2.9.9
jackson-annotations 2.9.5
jackson-core  2.9.5
jackson-databind  2.9.5
jackson-datatype-guava  2.9.5
jackson-datatype-jsr310  2.9.5
jackson-datatype-jdk8  2.9.5
jackson-datatype-joda  2.9.5
jackson-dataformat-yaml  2.9.5
jackson-module-afterburner 2.9.5
jackson-module-parameter-names 2.9.5
jackson-jaxrs-json-provider 2.9.5
jackson-jaxrs-base 2.9.5
hibernate-validator 5.4.2Final
classmate 1.3.1
validation-api 1.1.0Final
commons-lang3 3.6
snakeyaml 1.17
javax.inject 1
error_prone_annotations 2.0.18
j2objc-annotations 1.1
profiler 1.0.2



MIT
argparse4j 0.7.0
slf4j-api 1.7.25
slf4j-api 1.7.25
jul-to-slf4j 1.7.25
jcl-over-slf4j 1.7.25
animal-sniffer-annotations 1.14
checker-qual 2.0.0

Apache 2.0 + EPL 1.0
jetty-setuid-java 1.0.3
jetty-server 9.4.8.v20171121
jetty-util 9.4.8.v20171121
jetty-http 9.4.8.v20171121
jetty-io 9.4.8.v20171121
jetty-webapp 9.4.8.v20171121
jetty-continuation 9.4.8.v20171121
jetty-xml 9.4.8.v20171121
jetty-servlet 9.4.8.v20171121
jetty-security 9.4.7.v20170914
jetty-servlets 9.4.8.v20171121


EPL 1.0 + LGPL 2.1
logback-core 1.2.3
logback-classic 1.2.3
logback-classic 1.1.10
logback-core 1.1.10
logback-access 1.2.3
```

```
Apache 2.0 + CC0 1.0 Public
jboss-logging 3.3.0Final



Apache 2.0 + MIT
log4j-over-slf4j 1.7.24
animal-sniffer-annotations 1.14



Apache 2.0 + LGPL 2.1 + MPl 1.1
javassist 3.21.0-GA



==========================================================================================
==========================================================================================

Apache 2.0

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
```

```
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
```

```
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=====================================================================

argparse4j 0.7.0


/*
```

```
 * Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
=======================================================

slf4j-api 1.7.24
slf4j-api 1.7.22
jul-to-slf4j 1.7.24
jcl-over-slf4j 1.7.24


Copyright (c) 2004-2017 QOS.ch All rights reserved. Permission is hereby
 granted, free of charge, to any person obtaining a copy of this software
 and associated documentation files (the "Software"), to deal in the
 Software without restriction, including without limitation the rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software
 is furnished to do so, subject to the following conditions: The above
 copyright notice and this permission notice shall be included in all copies
 or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS",
 WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
 TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
 AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
 SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=======================================================


EPL 1.0

 Eclipse Public License, Version 1.0 (EPL-1.0)

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

    a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
    b) in the case of each subsequent Contributor:
```

```
    i) changes to the Program, and
    ii) additions to the Program;
    where such changes and/or additions to the Program originate from and
 are distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

    a) Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free copyright license
 to reproduce, prepare derivative works of, publicly display, publicly
 perform, distribute and sublicense the Contribution of such Contributor, if
 any, and such derivative works, in source code and object code form.
    b) Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free patent license
 under Licensed Patents to make, use, sell, offer to sell, import and
 otherwise transfer the Contribution of such Contributor, if any, in
 source code and object code form. This patent license shall apply to
 the combination of the Contribution and the Program if, at the time the
 Contribution is added by the Contributor, such addition of the Contribution
 causes such combination to be covered by the Licensed Patents. The patent
 license shall not apply to any other combinations which include the
 Contribution. No hardware per se is licensed hereunder.
    c) Recipient understands that although each Contributor grants the
 licenses to its Contributions set forth herein, no assurances are provided
 by any Contributor that the Program does not infringe the patent or
 other intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
    d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

    a) it complies with the terms and conditions of this Agreement; and
    b) its license agreement:
    i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
```

```
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
    ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
    iii) states that any provisions which differ from this Agreement are
 offered by that Contributor alone and not by any other party; and
    iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

    a) it must be made available under this Agreement; and
    b) a copy of this Agreement must be included with each copy of the
 Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
```

```
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

```
============================================================

CDDL 1.0

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE Version 1.0 (CDDL-1.0) (text)

    1. Definitions.

        1.1. Contributor means each individual or entity that creates or
 contributes to the creation of Modifications.

        1.2. Contributor Version means the combination of the Original
 Software, prior Modifications used by a Contributor (if any), and the
 Modifications made by that particular Contributor.

        1.3. Covered Software means (a) the Original Software, or (b)
 Modifications, or (c) the combination of files containing Original Software
 with files containing Modifications, in each case including portions
 thereof.

        1.4. Executable means the Covered Software in any form other than
 Source Code.

        1.5. Initial Developer means the individual or entity that first
 makes Original Software available under this License.

        1.6. Larger Work means a work which combines Covered Software or
 portions thereof with code not governed by the terms of this License.

        1.7. License means this document.

        1.8. Licensable means having the right to grant, to the maximum
 extent possible, whether at the time of the initial grant or subsequently
 acquired, any and all of the rights conveyed herein.

        1.9. Modifications means the Source Code and Executable form of any
 of the following:

            A. Any file that results from an addition to, deletion from
 or modification of the contents of a file containing Original Software or
 previous Modifications;

            B. Any new file that contains any part of the Original Software
 or previous Modification; or

            C. Any new file that is contributed or otherwise made available
 under the terms of this License.

        1.10. Original Software means the Source Code and Executable form of
 computer software code that is originally released under this License.

        1.11. Patent Claims means any patent claim(s), now owned or
 hereafter acquired, including without limitation, method, process, and
 apparatus claims, in any patent Licensable by grantor.

        1.12. Source Code means (a) the common form of computer software
 code in which modifications are made and (b) associated documentation
 included in or with such code.

        1.13. You (or Your) means an individual or a legal entity exercising
 rights under, and complying with all of the terms of, this License. For
 legal entities, You includes any entity which controls, is controlled
```

```
by, or is under common control with You. For purposes of this definition,
control means (a) the power, direct or indirect, to cause the direction
or management of such entity, whether by contract or otherwise, or (b)
ownership of more than fifty percent (50%) of the outstanding shares or
beneficial ownership of such entity.

   2. License Grants.

       2.1. The Initial Developer Grant.

       Conditioned upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, the Initial Developer hereby
grants You a world-wide, royalty-free, non-exclusive license:

           (a) under intellectual property rights (other than patent or
trademark) Licensable by Initial Developer, to use, reproduce, modify,
display, perform, sublicense and distribute the Original Software (or
portions thereof), with or without Modifications, and/or as part of a
Larger Work; and

           (b) under Patent Claims infringed by the making, using or
selling of Original Software, to make, have made, use, practice, sell,
and offer for sale, and/or otherwise dispose of the Original Software (or
portions thereof).

           (c) The licenses granted in Sections 2.1(a) and (b) are
effective on the date Initial Developer first distributes or otherwise
makes the Original Software available to a third party under the terms of
this License.

           (d) Notwithstanding Section 2.1(b) above, no patent license is
granted: (1) for code that You delete from the Original Software, or (2)
for infringements caused by: (i) the modification of the Original Software,
or (ii) the combination of the Original Software with other software or
devices.

       2.2. Contributor Grant.

       Conditioned upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, each Contributor hereby grants
You a world-wide, royalty-free, non-exclusive license:

           (a) under intellectual property rights (other than patent or
trademark) Licensable by Contributor to use, reproduce, modify, display,
perform, sublicense and distribute the Modifications created by such
Contributor (or portions thereof), either on an unmodified basis, with
other Modifications, as Covered Software and/or as part of a Larger Work;
and

           (b) under Patent Claims infringed by the making, using, or
selling of Modifications made by that Contributor either alone and/or in
combination with its Contributor Version (or portions of such combination),
to make, use, sell, offer for sale, have made, and/or otherwise dispose
of: (1) Modifications made by that Contributor (or portions thereof); and
(2) the combination of Modifications made by that Contributor with its
Contributor Version (or portions of such combination).

           (c) The licenses granted in Sections 2.2(a) and 2.2(b) are
effective on the date Contributor first distributes or otherwise makes the
Modifications available to a third party.

           (d) Notwithstanding Section 2.2(b) above, no patent license is
granted: (1) for any code that Contributor has deleted from the Contributor
Version; (2) for infringements caused by: (i) third party modifications of
```

```
Contributor Version, or (ii) the combination of Modifications made by that
Contributor with other software (except as part of the Contributor Version)
or other devices; or (3) under Patent Claims infringed by Covered Software
in the absence of Modifications made by that Contributor.

   3. Distribution Obligations.

       3.1. Availability of Source Code.

       Any Covered Software that You distribute or otherwise make available
in Executable form must also be made available in Source Code form and that
Source Code form must be distributed only under the terms of this License.
You must include a copy of this License with every copy of the Source Code
form of the Covered Software You distribute or otherwise make available.
You must inform recipients of any such Covered Software in Executable form
as to how they can obtain such Covered Software in Source Code form in
a reasonable manner on or through a medium customarily used for software
exchange.

       3.2. Modifications.

       The Modifications that You create or to which You contribute are
governed by the terms of this License. You represent that You believe Your
Modifications are Your original creation(s) and/or You have sufficient
rights to grant the rights conveyed by this License.

       3.3. Required Notices.

       You must include a notice in each of Your Modifications that
identifies You as the Contributor of the Modification. You may not remove
or alter any copyright, patent or trademark notices contained within the
Covered Software, or any notices of licensing or any descriptive text
giving attribution to any Contributor or the Initial Developer.

       3.4. Application of Additional Terms.

       You may not offer or impose any terms on any Covered Software in
Source Code form that alters or restricts the applicable version of this
License or the recipients rights hereunder. You may choose to offer, and
to charge a fee for, warranty, support, indemnity or liability obligations
to one or more recipients of Covered Software. However, you may do so
only on Your own behalf, and not on behalf of the Initial Developer or
any Contributor. You must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by You alone, and You
hereby agree to indemnify the Initial Developer and every Contributor for
any liability incurred by the Initial Developer or such Contributor as a
result of warranty, support, indemnity or liability terms You offer.

       3.5. Distribution of Executable Versions.

       You may distribute the Executable form of the Covered Software under
the terms of this License or under the terms of a license of Your choice,
which may contain terms different from this License, provided that You are
in compliance with the terms of this License and that the license for the
Executable form does not attempt to limit or alter the recipients rights
in the Source Code form from the rights set forth in this License. If
You distribute the Covered Software in Executable form under a different
license, You must make it absolutely clear that any terms which differ
from this License are offered by You alone, not by the Initial Developer or
Contributor. You hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial Developer or such
Contributor as a result of any such terms You offer.

       3.6. Larger Works.
```

```
       You may create a Larger Work by combining Covered Software with
other code not governed by the terms of this License and distribute the
Larger Work as a single product. In such a case, You must make sure the
requirements of this License are fulfilled for the Covered Software.

   4. Versions of the License.

       4.1. New Versions.

       Sun Microsystems, Inc. is the initial license steward and may
publish revised and/or new versions of this License from time to time. Each
version will be given a distinguishing version number. Except as provided
in Section 4.3, no one other than the license steward has the right to
modify this License.

       4.2. Effect of New Versions.

       You may always continue to use, distribute or otherwise make the
Covered Software available under the terms of the version of the License
under which You originally received the Covered Software. If the Initial
Developer includes a notice in the Original Software prohibiting it from
being distributed or otherwise made available under any subsequent version
of the License, You must distribute and make the Covered Software available
under the terms of the version of the License under which You originally
received the Covered Software. Otherwise, You may also choose to use,
distribute or otherwise make the Covered Software available under the terms
of any subsequent version of the License published by the license steward.

       4.3. Modified Versions.

       When You are an Initial Developer and You want to create a new
license for Your Original Software, You may create and use a modified
version of this License if You: (a) rename the license and remove any
references to the name of the license steward (except to note that the
license differs from this License); and (b) otherwise make it clear that
the license contains terms which differ from this License.

   5. DISCLAIMER OF WARRANTY.

   COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS,
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF
DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS
WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU
(NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF
ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED
SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

   6. TERMINATION.

       6.1. This License and the rights granted hereunder will terminate
automatically if You fail to comply with terms herein and fail to cure such
breach within 30 days of becoming aware of the breach. Provisions which, by
their nature, must remain in effect beyond the termination of this License
shall survive.

       6.2. If You assert a patent infringement claim (excluding
declaratory judgment actions) against Initial Developer or a Contributor
(the Initial Developer or Contributor against whom You assert such claim
is referred to as Participant) alleging that the Participant Software
(meaning the Contributor Version where the Participant is a Contributor
```

or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTYS NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration

```
 regulations (and the export control laws and regulation of any other
 countries) when You use, distribute or otherwise make available any Covered
 Software.

    10. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
 responsible for claims and damages arising, directly or indirectly, out
 of its utilization of rights under this License and You agree to work
 with Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.

============================================================

CDDL 1.1

1. Definitions.

  1.1. "Contributor" means each individual or entity that creates or
  contributes to the creation of Modifications.

  1.2. "Contributor Version" means the combination of the Original
  Software, prior Modifications used by a Contributor (if any), and
  the Modifications made by that particular Contributor.

  1.3. "Covered Software" means (a) the Original Software, or (b)
  Modifications, or (c) the combination of files containing Original
  Software with files containing Modifications, in each case including
  portions thereof.

  1.4. "Executable" means the Covered Software in any form other than
  Source Code.

  1.5. "Initial Developer" means the individual or entity that first
  makes Original Software available under this License.

  1.6. "Larger Work" means a work which combines Covered Software or
  portions thereof with code not governed by the terms of this License.

  1.7. "License" means this document.

  1.8. "Licensable" means having the right to grant, to the maximum
  extent possible, whether at the time of the initial grant or
  subsequently acquired, any and all of the rights conveyed herein.

  1.9. "Modifications" means the Source Code and Executable form of
  any of the following:

  A. Any file that results from an addition to, deletion from or
  modification of the contents of a file containing Original Software
  or previous Modifications;

  B. Any new file that contains any part of the Original Software or
  previous Modification; or

  C. Any new file that is contributed or otherwise made available
  under the terms of this License.

  1.10. "Original Software" means the Source Code and Executable form
  of computer software code that is originally released under this
  License.

  1.11. "Patent Claims" means any patent claim(s), now owned or
```

```
  hereafter acquired, including without limitation, method, process,
  and apparatus claims, in any patent Licensable by grantor.

  1.12. "Source Code" means (a) the common form of computer software
  code in which modifications are made and (b) associated
  documentation included in or with such code.

  1.13. "You" (or "Your") means an individual or a legal entity
  exercising rights under, and complying with all of the terms of,
  this License. For legal entities, "You" includes any entity which
  controls, is controlled by, or is under common control with You. For
  purposes of this definition, "control" means (a) the power, direct
  or indirect, to cause the direction or management of such entity,
  whether by contract or otherwise, or (b) ownership of more than
  fifty percent (50%) of the outstanding shares or beneficial
  ownership of such entity.

2. License Grants.

  2.1. The Initial Developer Grant.

  Conditioned upon Your compliance with Section 3.1 below and subject
  to third party intellectual property claims, the Initial Developer
  hereby grants You a world-wide, royalty-free, non-exclusive license:

  (a) under intellectual property rights (other than patent or
  trademark) Licensable by Initial Developer, to use, reproduce,
  modify, display, perform, sublicense and distribute the Original
  Software (or portions thereof), with or without Modifications,
  and/or as part of a Larger Work; and

  (b) under Patent Claims infringed by the making, using or selling of
  Original Software, to make, have made, use, practice, sell, and
  offer for sale, and/or otherwise dispose of the Original Software
  (or portions thereof).

  (c) The licenses granted in Sections 2.1(a) and (b) are effective on
  the date Initial Developer first distributes or otherwise makes the
  Original Software available to a third party under the terms of this
  License.

  (d) Notwithstanding Section 2.1(b) above, no patent license is
  granted: (1) for code that You delete from the Original Software, or
  (2) for infringements caused by: (i) the modification of the
  Original Software, or (ii) the combination of the Original Software
  with other software or devices.

  2.2. Contributor Grant.

  Conditioned upon Your compliance with Section 3.1 below and subject
  to third party intellectual property claims, each Contributor hereby
  grants You a world-wide, royalty-free, non-exclusive license:

  (a) under intellectual property rights (other than patent or
  trademark) Licensable by Contributor to use, reproduce, modify,
  display, perform, sublicense and distribute the Modifications
  created by such Contributor (or portions thereof), either on an
  unmodified basis, with other Modifications, as Covered Software
  and/or as part of a Larger Work; and

  (b) under Patent Claims infringed by the making, using, or selling
  of Modifications made by that Contributor either alone and/or in
  combination with its Contributor Version (or portions of such
  combination), to make, use, sell, offer for sale, have made, and/or
```

```
  otherwise dispose of: (1) Modifications made by that Contributor (or
  portions thereof); and (2) the combination of Modifications made by
  that Contributor with its Contributor Version (or portions of such
  combination).

  (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
  on the date Contributor first distributes or otherwise makes the
  Modifications available to a third party.

  (d) Notwithstanding Section 2.2(b) above, no patent license is
  granted: (1) for any code that Contributor has deleted from the
  Contributor Version; (2) for infringements caused by: (i) third
  party modifications of Contributor Version, or (ii) the combination
  of Modifications made by that Contributor with other software
  (except as part of the Contributor Version) or other devices; or (3)
  under Patent Claims infringed by Covered Software in the absence of
  Modifications made by that Contributor.

3. Distribution Obligations.

  3.1. Availability of Source Code.

  Any Covered Software that You distribute or otherwise make available
  in Executable form must also be made available in Source Code form
  and that Source Code form must be distributed only under the terms
  of this License. You must include a copy of this License with every
  copy of the Source Code form of the Covered Software You distribute
  or otherwise make available. You must inform recipients of any such
  Covered Software in Executable form as to how they can obtain such
  Covered Software in Source Code form in a reasonable manner on or
  through a medium customarily used for software exchange.

  3.2. Modifications.

  The Modifications that You create or to which You contribute are
  governed by the terms of this License. You represent that You
  believe Your Modifications are Your original creation(s) and/or You
  have sufficient rights to grant the rights conveyed by this License.

  3.3. Required Notices.

  You must include a notice in each of Your Modifications that
  identifies You as the Contributor of the Modification. You may not
  remove or alter any copyright, patent or trademark notices contained
  within the Covered Software, or any notices of licensing or any
  descriptive text giving attribution to any Contributor or the
  Initial Developer.

  3.4. Application of Additional Terms.

  You may not offer or impose any terms on any Covered Software in
  Source Code form that alters or restricts the applicable version of
  this License or the recipients' rights hereunder. You may choose to
  offer, and to charge a fee for, warranty, support, indemnity or
  liability obligations to one or more recipients of Covered Software.
  However, you may do so only on Your own behalf, and not on behalf of
  the Initial Developer or any Contributor. You must make it
  absolutely clear that any such warranty, support, indemnity or
  liability obligation is offered by You alone, and You hereby agree
  to indemnify the Initial Developer and every Contributor for any
  liability incurred by the Initial Developer or such Contributor as a
  result of warranty, support, indemnity or liability terms You offer.

  3.5. Distribution of Executable Versions.
```

```
  You may distribute the Executable form of the Covered Software under
  the terms of this License or under the terms of a license of Your
  choice, which may contain terms different from this License,
  provided that You are in compliance with the terms of this License
  and that the license for the Executable form does not attempt to
  limit or alter the recipient's rights in the Source Code form from
  the rights set forth in this License. If You distribute the Covered
  Software in Executable form under a different license, You must make
  it absolutely clear that any terms which differ from this License
  are offered by You alone, not by the Initial Developer or
  Contributor. You hereby agree to indemnify the Initial Developer and
  every Contributor for any liability incurred by the Initial
  Developer or such Contributor as a result of any such terms You offer.

  3.6. Larger Works.

  You may create a Larger Work by combining Covered Software with
  other code not governed by the terms of this License and distribute
  the Larger Work as a single product. In such a case, You must make
  sure the requirements of this License are fulfilled for the Covered
  Software.

4. Versions of the License.

  4.1. New Versions.

  Oracle is the initial license steward and may publish revised and/or
  new versions of this License from time to time. Each version will be
  given a distinguishing version number. Except as provided in Section
  4.3, no one other than the license steward has the right to modify
  this License.

  4.2. Effect of New Versions.

  You may always continue to use, distribute or otherwise make the
  Covered Software available under the terms of the version of the
  License under which You originally received the Covered Software. If
  the Initial Developer includes a notice in the Original Software
  prohibiting it from being distributed or otherwise made available
  under any subsequent version of the License, You must distribute and
  make the Covered Software available under the terms of the version
  of the License under which You originally received the Covered
  Software. Otherwise, You may also choose to use, distribute or
  otherwise make the Covered Software available under the terms of any
  subsequent version of the License published by the license steward.

  4.3. Modified Versions.

  When You are an Initial Developer and You want to create a new
  license for Your Original Software, You may create and use a
  modified version of this License if You: (a) rename the license and
  remove any references to the name of the license steward (except to
  note that the license differs from this License); and (b) otherwise
  make it clear that the license contains terms which differ from this
  License.

5. DISCLAIMER OF WARRANTY.

  COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
  WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
  INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
  IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
  NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
```

```
  THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
  DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
  OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
  REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
  ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
  AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

  6.1. This License and the rights granted hereunder will terminate
  automatically if You fail to comply with terms herein and fail to
  cure such breach within 30 days of becoming aware of the breach.
  Provisions which, by their nature, must remain in effect beyond the
  termination of this License shall survive.

  6.2. If You assert a patent infringement claim (excluding
  declaratory judgment actions) against Initial Developer or a
  Contributor (the Initial Developer or Contributor against whom You
  assert such claim is referred to as "Participant") alleging that the
  Participant Software (meaning the Contributor Version where the
  Participant is a Contributor or the Original Software where the
  Participant is the Initial Developer) directly or indirectly
  infringes any patent, then any and all rights granted directly or
  indirectly to You by such Participant, the Initial Developer (if the
  Initial Developer is not the Participant) and all Contributors under
  Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
  from Participant terminate prospectively and automatically at the
  expiration of such 60 day notice period, unless if within such 60
  day period You withdraw Your claim with respect to the Participant
  Software against such Participant either unilaterally or pursuant to
  a written agreement with Participant.

  6.3. If You assert a patent infringement claim against Participant
  alleging that the Participant Software directly or indirectly
  infringes any patent where such claim is resolved (such as by
  license or settlement) prior to the initiation of patent
  infringement litigation, then the reasonable value of the licenses
  granted by such Participant under Sections 2.1 or 2.2 shall be taken
  into account in determining the amount or value of any payment or
  license.

  6.4. In the event of termination under Sections 6.1 or 6.2 above,
  all end user licenses that have been validly granted by You or any
  distributor hereunder prior to termination (excluding licenses
  granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

  UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
  (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
  INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
  COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
  TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
  CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
  LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
  FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
  LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
  POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
  APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
  PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
  LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
  LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
  AND LIMITATION MAY NOT APPLY TO YOU.
```

```
8. U.S. GOVERNMENT END USERS.

  The Covered Software is a "commercial item," as that term is defined
  in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
  software" (as that term is defined at 48 C.F.R. §
  252.227-7014(a)(1)) and "commercial computer software documentation"
  as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
  with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
  (June 1995), all U.S. Government End Users acquire Covered Software
  with only those rights set forth herein. This U.S. Government Rights
  clause is in lieu of, and supersedes, any other FAR, DFAR, or other
  clause or provision that addresses Government rights in computer
  software under this License.

9. MISCELLANEOUS.

  This License represents the complete agreement concerning subject
  matter hereof. If any provision of this License is held to be
  unenforceable, such provision shall be reformed only to the extent
  necessary to make it enforceable. This License shall be governed by
  the law of the jurisdiction specified in a notice contained within
  the Original Software (except to the extent applicable law, if any,
  provides otherwise), excluding such jurisdiction's conflict-of-law
  provisions. Any litigation relating to this License shall be subject
  to the jurisdiction of the courts located in the jurisdiction and
  venue specified in a notice contained within the Original Software,
  with the losing party responsible for costs, including, without
  limitation, court costs and reasonable attorneys' fees and expenses.
  The application of the United Nations Convention on Contracts for
  the International Sale of Goods is expressly excluded. Any law or
  regulation which provides that the language of a contract shall be
  construed against the drafter shall not apply to this License. You
  agree that You alone are responsible for compliance with the United
  States export administration regulations (and the export control
  laws and regulation of any other countries) when You use, distribute
  or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

  As between Initial Developer and the Contributors, each party is
  responsible for claims and damages arising, directly or indirectly,
  out of its utilization of rights under this License and You agree to
  work with Initial Developer and Contributors to distribute such
  responsibility on an equitable basis. Nothing herein is intended or
  shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
 LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.

==================================================================

GPL 2

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA
```

```
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".
```

```
Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:
```

```
    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
```

```
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
```

```
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
```

```
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."

You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
```

```
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.

====================================================

LGPL 2.1

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.
```

```
Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".
```

```
A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices stating
 that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no charge to
 all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a table
 of data to be supplied by an application program that uses the facility,
 other than as an argument passed when the facility is invoked, then you
 must make a good faith effort to ensure that, in the event an application
 does not supply such function or table, the facility still operates, and
 performs whatever part of its purpose remains meaningful.

    (For example, a function in a library to compute square roots has a
 purpose that is entirely well-defined independent of the application.
 Therefore, Subsection 2d requires that any application-supplied function or
 table used by this function must be optional: if the application does not
 supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
```

```
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
```

```
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

    a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
    b) Use a suitable shared library mechanism for linking with the Library.
 A suitable mechanism is one that (1) uses at run time a copy of the
 library already present on the user's computer system, rather than copying
 library functions into the executable, and (2) will operate properly with
 a modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
    c) Accompany the work with a written offer, valid for at least three
 years, to give the same user the materials specified in Subsection 6a,
 above, for a charge no more than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
    e) Verify that the user has already received a copy of these materials
 or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.
```

```
7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

    a) Accompany the combined library with a copy of the same work based
 on the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
    b) Give prominent notice with the combined library of the fact that
 part of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.
```

```
This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS


==============================================

Creative Commons 1.0

     CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
 LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-
CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-
IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS
```

```
 DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS
 LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE
 INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
 exclusive Copyright and Related Rights (defined below) upon the creator
 and subsequent owner(s) (each and all, an "owner") of an original work of
 authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the
 purpose of contributing to a commons of creative, cultural and scientific
 works ("Commons") that the public can reliably and without fear of later
 claims of infringement build upon, modify, incorporate in other works,
 reuse and redistribute as freely as possible in any form whatsoever and
 for any purposes, including without limitation commercial purposes. These
 owners may contribute to the Commons to promote the ideal of a free culture
 and the further production of creative, cultural and scientific works, or
 to gain reputation or greater distribution for their Work in part through
 the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of additional consideration or compensation, the person associating CC0
 with a Work (the "Affirmer"), to the extent that he or she is an owner
 of Copyright and Related Rights in the Work, voluntarily elects to apply
 CC0 to the Work and publicly distribute the Work under its terms, with
 knowledge of his or her Copyright and Related Rights in the Work and the
 meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
 protected by copyright and related or neighboring rights ("Copyright and
 Related Rights"). Copyright and Related Rights include, but are not limited
 to, the following:

    the right to reproduce, adapt, distribute, perform, display,
 communicate, and translate a Work;
    moral rights retained by the original author(s) and/or performer(s);
    publicity and privacy rights pertaining to a person's image or likeness
 depicted in a Work;
    rights protecting against unfair competition in regards to a Work,
 subject to the limitations in paragraph 4(a), below;
    rights protecting the extraction, dissemination, use and reuse of data
 in a Work;
    database rights (such as those arising under Directive 96/9/EC of
 the European Parliament and of the Council of 11 March 1996 on the legal
 protection of databases, and under any national implementation thereof,
 including any amended or successor version of such directive); and
    other similar, equivalent or corresponding rights throughout the
 world based on applicable law or treaty, and any national implementations
 thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of,
 applicable law, Affirmer hereby overtly, fully, permanently, irrevocably
 and unconditionally waives, abandons, and surrenders all of Affirmer's
 Copyright and Related Rights and associated claims and causes of action,
 whether now known or unknown (including existing as well as future claims
 and causes of action), in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "Waiver").
 Affirmer makes the Waiver for the benefit of each member of the public
 at large and to the detriment of Affirmer's heirs and successors, fully
```

```
 intending that such Waiver shall not be subject to revocation, rescission,
 cancellation, termination, or any other legal or equitable action to
 disrupt the quiet enjoyment of the Work by the public as contemplated by
 Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
 be judged legally invalid or ineffective under applicable law, then the
 Waiver shall be preserved to the maximum extent permitted taking into
 account Affirmer's express Statement of Purpose. In addition, to the
 extent the Waiver is so judged Affirmer hereby grants to each affected
 person a royalty-free, non transferable, non sublicensable, non exclusive,
 irrevocable and unconditional license to exercise Affirmer's Copyright
 and Related Rights in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "License").
 The License shall be deemed effective as of the date CC0 was applied by
 Affirmer to the Work. Should any part of the License for any reason be
 judged legally invalid or ineffective under applicable law, such partial
 invalidity or ineffectiveness shall not invalidate the remainder of the
 License, and in such case Affirmer hereby affirms that he or she will
 not (i) exercise any of his or her remaining Copyright and Related Rights
 in the Work or (ii) assert any associated claims and causes of action
 with respect to the Work, in either case contrary to Affirmer's express
 Statement of Purpose.

4. Limitations and Disclaimers.

    No trademark or patent rights held by Affirmer are waived, abandoned,
 surrendered, licensed or otherwise affected by this document.
    Affirmer offers the Work as-is and makes no representations or
 warranties of any kind concerning the Work, express, implied, statutory
 or otherwise, including without limitation warranties of title,
 merchantability, fitness for a particular purpose, non infringement, or the
 absence of latent or other defects, accuracy, or the present or absence of
 errors, whether or not discoverable, all to the greatest extent permissible
 under applicable law.
    Affirmer disclaims responsibility for clearing rights of other persons
 that may apply to the Work or any use thereof, including without limitation
 any person's Copyright and Related Rights in the Work. Further, Affirmer
 disclaims responsibility for obtaining any necessary consents, permissions
 or other rights required for any use of the Work.
    Affirmer understands and acknowledges that Creative Commons is not a
 party to this document and has no duty or obligation with respect to this
 CC0 or use of the Work.


==================================================

GPL 3.0

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license
 document, but changing it is not allowed.
Preamble

The GNU General Public License is a free, copyleft license for software and
 other kinds of works.
```

```
The licenses for most software and other practical works are designed to
 take away your freedom to share and change the works. By contrast, the GNU
 General Public License is intended to guarantee your freedom to share and
 change all versions of a program--to make sure it remains free software
 for all its users. We, the Free Software Foundation, use the GNU General
 Public License for most of our software; it applies also to any other work
 released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
 General Public Licenses are designed to make sure that you have the freedom
 to distribute copies of free software (and charge for them if you wish),
 that you receive source code or can get it if you want it, that you can
 change the software or use pieces of it in new free programs, and that you
 know you can do these things.

To protect your rights, we need to prevent others from denying you these
 rights or asking you to surrender the rights. Therefore, you have certain
 responsibilities if you distribute copies of the software, or if you modify
 it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or
 for a fee, you must pass on to the recipients the same freedoms that you
 received. You must make sure that they, too, receive or can get the source
 code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1)
 assert copyright on the software, and (2) offer you this License giving you
 legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that
 there is no warranty for this free software. For both users' and authors'
 sake, the GPL requires that modified versions be marked as changed, so that
 their problems will not be attributed erroneously to authors of previous
 versions.

Some devices are designed to deny users access to install or run modified
 versions of the software inside them, although the manufacturer can do
 so. This is fundamentally incompatible with the aim of protecting users'
 freedom to change the software. The systematic pattern of such abuse occurs
 in the area of products for individuals to use, which is precisely where
 it is most unacceptable. Therefore, we have designed this version of the
 GPL to prohibit the practice for those products. If such problems arise
 substantially in other domains, we stand ready to extend this provision
 to those domains in future versions of the GPL, as needed to protect the
 freedom of users.

Finally, every program is threatened constantly by software patents. States
 should not allow patents to restrict development and use of software
 on general-purpose computers, but in those that do, we wish to avoid
 the special danger that patents applied to a free program could make it
 effectively proprietary. To prevent this, the GPL assures that patents
 cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification
 follow.
TERMS AND CONDITIONS
0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of
 works, such as semiconductor masks.
```

```
"The Program" refers to any copyrightable work licensed under this License.
 Each licensee is addressed as "you". "Licensees" and "recipients" may be
 individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a
 fashion requiring copyright permission, other than the making of an exact
 copy. The resulting work is called a "modified version" of the earlier work
 or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the
 Program.

To "propagate" a work means to do anything with it that, without permission,
 would make you directly or secondarily liable for infringement under
 applicable copyright law, except executing it on a computer or modifying a
 private copy. Propagation includes copying, distribution (with or without
 modification), making available to the public, and in some countries other
 activities as well.

To "convey" a work means any kind of propagation that enables other parties
 to make or receive copies. Mere interaction with a user through a computer
 network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the
 extent that it includes a convenient and prominently visible feature that
 (1) displays an appropriate copyright notice, and (2) tells the user that
 there is no warranty for the work (except to the extent that warranties are
 provided), that licensees may convey the work under this License, and how
 to view a copy of this License. If the interface presents a list of user
 commands or options, such as a menu, a prominent item in the list meets
 this criterion.
1. Source Code.

The "source code" for a work means the preferred form of the work for making
 modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official
 standard defined by a recognized standards body, or, in the case of
 interfaces specified for a particular programming language, one that is
 widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than
 the work as a whole, that (a) is included in the normal form of packaging
 a Major Component, but which is not part of that Major Component, and (b)
 serves only to enable use of the work with that Major Component, or to
 implement a Standard Interface for which an implementation is available
 to the public in source code form. A "Major Component", in this context,
 means a major essential component (kernel, window system, and so on) of the
 specific operating system (if any) on which the executable work runs, or
 a compiler used to produce the work, or an object code interpreter used to
 run it.

The "Corresponding Source" for a work in object code form means all the
 source code needed to generate, install, and (for an executable work) run
 the object code and to modify the work, including scripts to control those
 activities. However, it does not include the work's System Libraries, or
 general-purpose tools or generally available free programs which are used
 unmodified in performing those activities but which are not part of the
 work. For example, Corresponding Source includes interface definition files
 associated with source files for the work, and the source code for shared
 libraries and dynamically linked subprograms that the work is specifically
 designed to require, such as by intimate data communication or control flow
 between those subprograms and other parts of the work.
```

```
The Corresponding Source need not include anything that users can regenerate
 automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.
2. Basic Permissions.

All rights granted under this License are granted for the term of copyright
 on the Program, and are irrevocable provided the stated conditions are
 met. This License explicitly affirms your unlimited permission to run
 the unmodified Program. The output from running a covered work is covered
 by this License only if the output, given its content, constitutes a
 covered work. This License acknowledges your rights of fair use or other
 equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey,
 without conditions so long as your license otherwise remains in force.
 You may convey covered works to others for the sole purpose of having them
 make modifications exclusively for you, or provide you with facilities
 for running those works, provided that you comply with the terms of
 this License in conveying all material for which you do not control
 copyright. Those thus making or running the covered works for you must do
 so exclusively on your behalf, under your direction and control, on terms
 that prohibit them from making any copies of your copyrighted material
 outside their relationship with you.

Conveying under any other circumstances is permitted solely under the
 conditions stated below. Sublicensing is not allowed; section 10 makes it
 unnecessary.
3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure
 under any applicable law fulfilling obligations under article 11 of
 the WIPO copyright treaty adopted on 20 December 1996, or similar laws
 prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid
 circumvention of technological measures to the extent such circumvention
 is effected by exercising rights under this License with respect to
 the covered work, and you disclaim any intention to limit operation or
 modification of the work as a means of enforcing, against the work's
 users, your or third parties' legal rights to forbid circumvention of
 technological measures.
4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive
 it, in any medium, provided that you conspicuously and appropriately
 publish on each copy an appropriate copyright notice; keep intact all
 notices stating that this License and any non-permissive terms added in
 accord with section 7 apply to the code; keep intact all notices of the
 absence of any warranty; and give all recipients a copy of this License
 along with the Program.

You may charge any price or no price for each copy that you convey, and you
 may offer support or warranty protection for a fee.
5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce
 it from the Program, in the form of source code under the terms of section
 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified it,
 and giving a relevant date.
    b) The work must carry prominent notices stating that it is released
 under this License and any conditions added under section 7. This
```

```
 requirement modifies the requirement in section 4 to “keep intact all
 notices”.
    c) You must license the entire work, as a whole, under this License to
 anyone who comes into possession of a copy. This License will therefore
 apply, along with any applicable section 7 additional terms, to the whole
 of the work, and all its parts, regardless of how they are packaged. This
 License gives no permission to license the work in any other way, but it
 does not invalidate such permission if you have separately received it.
    d) If the work has interactive user interfaces, each must display
 Appropriate Legal Notices; however, if the Program has interactive
 interfaces that do not display Appropriate Legal Notices, your work need
 not make them do so.

A compilation of a covered work with other separate and independent works,
 which are not by their nature extensions of the covered work, and which
 are not combined with it such as to form a larger program, in or on a
 volume of a storage or distribution medium, is called an “aggregate” if the
 compilation and its resulting copyright are not used to limit the access
 or legal rights of the compilation's users beyond what the individual works
 permit. Inclusion of a covered work in an aggregate does not cause this
 License to apply to the other parts of the aggregate.
6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of
 sections 4 and 5, provided that you also convey the machine-readable
 Corresponding Source under the terms of this License, in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
 (including a physical distribution medium), accompanied by the
 Corresponding Source fixed on a durable physical medium customarily used
 for software interchange.
    b) Convey the object code in, or embodied in, a physical product
 (including a physical distribution medium), accompanied by a written
 offer, valid for at least three years and valid for as long as you offer
 spare parts or customer support for that product model, to give anyone who
 possesses the object code either (1) a copy of the Corresponding Source
 for all the software in the product that is covered by this License, on
 a durable physical medium customarily used for software interchange, for
 a price no more than your reasonable cost of physically performing this
 conveying of source, or (2) access to copy the Corresponding Source from a
 network server at no charge.
    c) Convey individual copies of the object code with a copy of the
 written offer to provide the Corresponding Source. This alternative is
 allowed only occasionally and noncommercially, and only if you received the
 object code with such an offer, in accord with subsection 6b.
    d) Convey the object code by offering access from a designated place
 (gratis or for a charge), and offer equivalent access to the Corresponding
 Source in the same way through the same place at no further charge. You
 need not require recipients to copy the Corresponding Source along with
 the object code. If the place to copy the object code is a network server,
 the Corresponding Source may be on a different server (operated by you or
 a third party) that supports equivalent copying facilities, provided you
 maintain clear directions next to the object code saying where to find the
 Corresponding Source. Regardless of what server hosts the Corresponding
 Source, you remain obligated to ensure that it is available for as long as
 needed to satisfy these requirements.
    e) Convey the object code using peer-to-peer transmission, provided you
 inform other peers where the object code and Corresponding Source of the
 work are being offered to the general public at no charge under subsection
 6d.

A separable portion of the object code, whose source code is excluded from
 the Corresponding Source as a System Library, need not be included in
 conveying the object code work.
```

```
A "User Product" is either (1) a "consumer product", which means any
 tangible personal property which is normally used for personal, family,
 or household purposes, or (2) anything designed or sold for incorporation
 into a dwelling. In determining whether a product is a consumer product,
 doubtful cases shall be resolved in favor of coverage. For a particular
 product received by a particular user, "normally used" refers to a typical
 or common use of that class of product, regardless of the status of the
 particular user or of the way in which the particular user actually uses,
 or expects or is expected to use, the product. A product is a consumer
 product regardless of whether the product has substantial commercial,
 industrial or non-consumer uses, unless such uses represent the only
 significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures,
 authorization keys, or other information required to install and execute
 modified versions of a covered work in that User Product from a modified
 version of its Corresponding Source. The information must suffice to ensure
 that the continued functioning of the modified object code is in no case
 prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or
 specifically for use in, a User Product, and the conveying occurs as part
 of a transaction in which the right of possession and use of the User
 Product is transferred to the recipient in perpetuity or for a fixed term
 (regardless of how the transaction is characterized), the Corresponding
 Source conveyed under this section must be accompanied by the Installation
 Information. But this requirement does not apply if neither you nor any
 third party retains the ability to install modified object code on the User
 Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a
 requirement to continue to provide support service, warranty, or updates
 for a work that has been modified or installed by the recipient, or for
 the User Product in which it has been modified or installed. Access to a
 network may be denied when the modification itself materially and adversely
 affects the operation of the network or violates the rules and protocols
 for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in
 accord with this section must be in a format that is publicly documented
 (and with an implementation available to the public in source code form),
 and must require no special password or key for unpacking, reading or
 copying.
7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License
 by making exceptions from one or more of its conditions. Additional
 permissions that are applicable to the entire Program shall be treated
 as though they were included in this License, to the extent that they are
 valid under applicable law. If additional permissions apply only to part of
 the Program, that part may be used separately under those permissions, but
 the entire Program remains governed by this License without regard to the
 additional permissions.

When you convey a copy of a covered work, you may at your option remove any
 additional permissions from that copy, or from any part of it. (Additional
 permissions may be written to require their own removal in certain
 cases when you modify the work.) You may place additional permissions on
 material, added by you to a covered work, for which you have or can give
 appropriate copyright permission.
```

```
Notwithstanding any other provision of this License, for material you add
 to a covered work, you may (if authorized by the copyright holders of that
 material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the terms
 of sections 15 and 16 of this License; or
    b) Requiring preservation of specified reasonable legal notices or
 author attributions in that material or in the Appropriate Legal Notices
 displayed by works containing it; or
    c) Prohibiting misrepresentation of the origin of that material, or
 requiring that modified versions of such material be marked in reasonable
 ways as different from the original version; or
    d) Limiting the use for publicity purposes of names of licensors or
 authors of the material; or
    e) Declining to grant rights under trademark law for use of some trade
 names, trademarks, or service marks; or
    f) Requiring indemnification of licensors and authors of that material
 by anyone who conveys the material (or modified versions of it) with
 contractual assumptions of liability to the recipient, for any liability
 that these contractual assumptions directly impose on those licensors and
 authors.

All other non-permissive additional terms are considered “further
 restrictions” within the meaning of section 10. If the Program as you
 received it, or any part of it, contains a notice stating that it is
 governed by this License along with a term that is a further restriction,
 you may remove that term. If a license document contains a further
 restriction but permits relicensing or conveying under this License, you
 may add to a covered work material governed by the terms of that license
 document, provided that the further restriction does not survive such
 relicensing or conveying.

If you add terms to a covered work in accord with this section, you must
 place, in the relevant source files, a statement of the additional terms
 that apply to those files, or a notice indicating where to find the
 applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
 form of a separately written license, or stated as exceptions; the above
 requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided
 under this License. Any attempt otherwise to propagate or modify it is
 void, and will automatically terminate your rights under this License
 (including any patent licenses granted under the third paragraph of section
 11).

However, if you cease all violation of this License, then your license from
 a particular copyright holder is reinstated (a) provisionally, unless and
 until the copyright holder explicitly and finally terminates your license,
 and (b) permanently, if the copyright holder fails to notify you of the
 violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated
 permanently if the copyright holder notifies you of the violation by
 some reasonable means, this is the first time you have received notice of
 violation of this License (for any work) from that copyright holder, and
 you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the
 licenses of parties who have received copies or rights from you under
 this License. If your rights have been terminated and not permanently
```

```
 reinstated, you do not qualify to receive new licenses for the same
 material under section 10.
9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a
 copy of the Program. Ancillary propagation of a covered work occurring
 solely as a consequence of using peer-to-peer transmission to receive a
 copy likewise does not require acceptance. However, nothing other than
 this License grants you permission to propagate or modify any covered
 work. These actions infringe copyright if you do not accept this License.
 Therefore, by modifying or propagating a covered work, you indicate your
 acceptance of this License to do so.
10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives
 a license from the original licensors, to run, modify and propagate that
 work, subject to this License. You are not responsible for enforcing
 compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an
 organization, or substantially all assets of one, or subdividing an
 organization, or merging organizations. If propagation of a covered work
 results from an entity transaction, each party to that transaction who
 receives a copy of the work also receives whatever licenses to the work
 the party's predecessor in interest had or could give under the previous
 paragraph, plus a right to possession of the Corresponding Source of the
 work from the predecessor in interest, if the predecessor has it or can get
 it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights
 granted or affirmed under this License. For example, you may not impose a
 license fee, royalty, or other charge for exercise of rights granted under
 this License, and you may not initiate litigation (including a cross-claim
 or counterclaim in a lawsuit) alleging that any patent claim is infringed
 by making, using, selling, offering for sale, or importing the Program or
 any portion of it.
11. Patents.

A “contributor” is a copyright holder who authorizes use under this License
 of the Program or a work on which the Program is based. The work thus
 licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned
 or controlled by the contributor, whether already acquired or hereafter
 acquired, that would be infringed by some manner, permitted by this
 License, of making, using, or selling its contributor version, but do not
 include claims that would be infringed only as a consequence of further
 modification of the contributor version. For purposes of this definition,
 “control” includes the right to grant patent sublicenses in a manner
 consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent
 license under the contributor's essential patent claims, to make, use,
 sell, offer for sale, import and otherwise run, modify and propagate the
 contents of its contributor version.

In the following three paragraphs, a “patent license” is any express
 agreement or commitment, however denominated, not to enforce a patent (such
 as an express permission to practice a patent or covenant not to sue for
 patent infringement). To “grant” such a patent license to a party means to
 make such an agreement or commitment not to enforce a patent against the
 party.
```

```
If you convey a covered work, knowingly relying on a patent license, and the
 Corresponding Source of the work is not available for anyone to copy, free
 of charge and under the terms of this License, through a publicly available
 network server or other readily accessible means, then you must either
 (1) cause the Corresponding Source to be so available, or (2) arrange to
 deprive yourself of the benefit of the patent license for this particular
 work, or (3) arrange, in a manner consistent with the requirements of this
 License, to extend the patent license to downstream recipients. “Knowingly
 relying” means you have actual knowledge that, but for the patent license,
 your conveying the covered work in a country, or your recipient's use of
 the covered work in a country, would infringe one or more identifiable
 patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement,
 you convey, or propagate by procuring conveyance of, a covered work, and
 grant a patent license to some of the parties receiving the covered work
 authorizing them to use, propagate, modify or convey a specific copy of the
 covered work, then the patent license you grant is automatically extended
 to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope
 of its coverage, prohibits the exercise of, or is conditioned on the non-
exercise of one or more of the rights that are specifically granted under
 this License. You may not convey a covered work if you are a party to an
 arrangement with a third party that is in the business of distributing
 software, under which you make payment to the third party based on the
 extent of your activity of conveying the work, and under which the third
 party grants, to any of the parties who would receive the covered work from
 you, a discriminatory patent license (a) in connection with copies of the
 covered work conveyed by you (or copies made from those copies), or (b)
 primarily for and in connection with specific products or compilations that
 contain the covered work, unless you entered into that arrangement, or that
 patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any
 implied license or other defenses to infringement that may otherwise be
 available to you under applicable patent law.
12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot convey a
 covered work so as to satisfy simultaneously your obligations under this
 License and any other pertinent obligations, then as a consequence you may
 not convey it at all. For example, if you agree to terms that obligate you
 to collect a royalty for further conveying from those to whom you convey
 the Program, the only way you could satisfy both those terms and this
 License would be to refrain entirely from conveying the Program.
13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to
 link or combine any covered work with a work licensed under version 3 of
 the GNU Affero General Public License into a single combined work, and to
 convey the resulting work. The terms of this License will continue to apply
 to the part which is the covered work, but the special requirements of
 the GNU Affero General Public License, section 13, concerning interaction
 through a network will apply to the combination as such.
14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
 the GNU General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.
```

```
Each version is given a distinguishing version number. If the Program
 specifies that a certain numbered version of the GNU General Public License
 “or any later version” applies to it, you have the option of following
 the terms and conditions either of that numbered version or of any later
 version published by the Free Software Foundation. If the Program does not
 specify a version number of the GNU General Public License, you may choose
 any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of
 the GNU General Public License can be used, that proxy's public statement
 of acceptance of a version permanently authorizes you to choose that
 version for the Program.

Later license versions may give you additional or different permissions.
 However, no additional obligations are imposed on any author or copyright
 holder as a result of your choosing to follow a later version.
15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE
 LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
 OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND,
 EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
 ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.
 SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY
 SERVICING, REPAIR OR CORRECTION.
16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
 ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE
 PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
 GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
 USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
 DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
 PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
 EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
 SUCH DAMAGES.
17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above
 cannot be given local legal effect according to their terms, reviewing
 courts shall apply local law that most closely approximates an absolute
 waiver of all civil liability in connection with the Program, unless a
 warranty or assumption of liability accompanies a copy of the Program in
 return for a fee.

END OF TERMS AND CONDITIONS

==============================================================

MPL 1.1

Mozilla Public License Version 1.1
1. Definitions.

1.0.1. "Commercial Use"
    means distribution or otherwise making the Covered Code available to a
 third party.
1.1. "Contributor"
    means each entity that creates or contributes to the creation of
 Modifications.
1.2. "Contributor Version"
    means the combination of the Original Code, prior Modifications used by
 a Contributor, and the Modifications made by that particular Contributor.
```

```
1.3. "Covered Code"
    means the Original Code or Modifications or the combination of the
 Original Code and Modifications, in each case including portions thereof.
1.4. "Electronic Distribution Mechanism"
    means a mechanism generally accepted in the software development
 community for the electronic transfer of data.
1.5. "Executable"
    means Covered Code in any form other than Source Code.
1.6. "Initial Developer"
    means the individual or entity identified as the Initial Developer in
 the Source Code notice required by Exhibit A.
1.7. "Larger Work"
    means a work which combines Covered Code or portions thereof with code
 not governed by the terms of this License.
1.8. "License"
    means this document.
1.8.1. "Licensable"
    means having the right to grant, to the maximum extent possible, whether
 at the time of the initial grant or subsequently acquired, any and all of
 the rights conveyed herein.
1.9. "Modifications"

    means any addition to or deletion from the substance or structure of
 either the Original Code or any previous Modifications. When Covered Code
 is released as a series of files, a Modification is:

        Any addition to or deletion from the contents of a file containing
 Original Code or previous Modifications.
        Any new file that contains any part of the Original Code or previous
 Modifications.

1.10. "Original Code"
    means Source Code of computer software code which is described in the
 Source Code notice required by Exhibit A as Original Code, and which, at
 the time of its release under this License is not already Covered Code
 governed by this License.
1.10.1. "Patent Claims"
    means any patent claim(s), now owned or hereafter acquired, including
 without limitation, method, process, and apparatus claims, in any patent
 Licensable by grantor.
1.11. "Source Code"
    means the preferred form of the Covered Code for making modifications
 to it, including all modules it contains, plus any associated interface
 definition files, scripts used to control compilation and installation
 of an Executable, or source code differential comparisons against either
 the Original Code or another well known, available Covered Code of the
 Contributor's choice. The Source Code can be in a compressed or archival
 form, provided the appropriate decompression or de-archiving software is
 widely available for no charge.
1.12. "You" (or "Your")
    means an individual or a legal entity exercising rights under, and
 complying with all of the terms of, this License or a future version of
 this License issued under Section 6.1. For legal entities, "You" includes
 any entity which controls, is controlled by, or is under common control
 with You. For purposes of this definition, "control" means (a) the power,
 direct or indirect, to cause the direction or management of such entity,
 whether by contract or otherwise, or (b) ownership of more than fifty
 percent (50%) of the outstanding shares or beneficial ownership of such
 entity.

2. Source Code License.
2.1. The Initial Developer Grant.
```

```
The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive license, subject to third party intellectual property claims:

    under intellectual property rights (other than patent or trademark)
 Licensable by Initial Developer to use, reproduce, modify, display,
 perform, sublicense and distribute the Original Code (or portions thereof)
 with or without Modifications, and/or as part of a Larger Work; and
    under Patents Claims infringed by the making, using or selling of
 Original Code, to make, have made, use, practice, sell, and offer for sale,
 and/or otherwise dispose of the Original Code (or portions thereof).
    the licenses granted in this Section 2.1 (a) and (b) are effective on
 the date Initial Developer first distributes Original Code under the terms
 of this License.
    Notwithstanding Section 2.1 (b) above, no patent license is granted:
 1) for code that You delete from the Original Code; 2) separate from the
 Original Code; or 3) for infringements caused by: i) the modification of
 the Original Code or ii) the combination of the Original Code with other
 software or devices.

2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby
 grants You a world-wide, royalty-free, non-exclusive license

    under intellectual property rights (other than patent or trademark)
 Licensable by Contributor, to use, reproduce, modify, display, perform,
 sublicense and distribute the Modifications created by such Contributor (or
 portions thereof) either on an unmodified basis, with other Modifications,
 as Covered Code and/or as part of a Larger Work; and
    under Patent Claims infringed by the making, using, or selling of
 Modifications made by that Contributor either alone and/or in combination
 with its Contributor Version (or portions of such combination), to make,
 use, sell, offer for sale, have made, and/or otherwise dispose of: 1)
 Modifications made by that Contributor (or portions thereof); and 2) the
 combination of Modifications made by that Contributor with its Contributor
 Version (or portions of such combination).
    the licenses granted in Sections 2.2 (a) and 2.2 (b) are effective on
 the date Contributor first makes Commercial Use of the Covered Code.
    Notwithstanding Section 2.2 (b) above, no patent license is granted: 1)
 for any code that Contributor has deleted from the Contributor Version; 2)
 separate from the Contributor Version; 3) for infringements caused by: i)
 third party modifications of Contributor Version or ii) the combination of
 Modifications made by that Contributor with other software (except as part
 of the Contributor Version) or other devices; or 4) under Patent Claims
 infringed by Covered Code in the absence of Modifications made by that
 Contributor.

3. Distribution Obligations.
3.1. Application of License.

The Modifications which You create or to which You contribute are governed
 by the terms of this License, including without limitation Section 2.2.
 The Source Code version of Covered Code may be distributed only under the
 terms of this License or a future version of this License released under
 Section 6.1, and You must include a copy of this License with every copy
 of the Source Code You distribute. You may not offer or impose any terms on
 any Source Code version that alters or restricts the applicable version of
 this License or the recipients' rights hereunder. However, You may include
 an additional document offering the additional rights described in Section
 3.5.
3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made
 available in Source Code form under the terms of this License either on
```

```
 the same media as an Executable version or via an accepted Electronic
 Distribution Mechanism to anyone to whom you made an Executable version
 available; and if made available via Electronic Distribution Mechanism,
 must remain available for at least twelve (12) months after the date it
 initially became available, or at least six (6) months after a subsequent
 version of that particular Modification has been made available to such
 recipients. You are responsible for ensuring that the Source Code version
 remains available even if the Electronic Distribution Mechanism is
 maintained by a third party.
3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file
 documenting the changes You made to create that Covered Code and the date
 of any change. You must include a prominent statement that the Modification
 is derived, directly or indirectly, from Original Code provided by the
 Initial Developer and including the name of the Initial Developer in (a)
 the Source Code, and (b) in any notice in an Executable version or related
 documentation in which You describe the origin or ownership of the Covered
 Code.
3.4. Intellectual Property Matters
(a) Third Party Claims

If Contributor has knowledge that a license under a third party's
 intellectual property rights is required to exercise the rights granted
 by such Contributor under Sections 2.1 or 2.2, Contributor must include a
 text file with the Source Code distribution titled "LEGAL" which describes
 the claim and the party making the claim in sufficient detail that a
 recipient will know whom to contact. If Contributor obtains such knowledge
 after the Modification is made available as described in Section 3.2,
 Contributor shall promptly modify the LEGAL file in all copies Contributor
 makes available thereafter and shall take other steps (such as notifying
 appropriate mailing lists or newsgroups) reasonably calculated to inform
 those who received the Covered Code that new knowledge has been obtained.
(b) Contributor APIs

If Contributor's Modifications include an application programming interface
 and Contributor has knowledge of patent licenses which are reasonably
 necessary to implement that API, Contributor must also include this
 information in the legal file.
(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4
 (a) above, Contributor believes that Contributor's Modifications are
 Contributor's original creation(s) and/or Contributor has sufficient rights
 to grant the rights conveyed by this License.
3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code.
 If it is not possible to put such notice in a particular Source Code file
 due to its structure, then You must include such notice in a location (such
 as a relevant directory) where a user would be likely to look for such a
 notice. If You created one or more Modification(s) You may add your name as
 a Contributor to the notice described in Exhibit A. You must also duplicate
 this License in any documentation for the Source Code where You describe
 recipients' rights or ownership rights relating to Covered Code. You may
 choose to offer, and to charge a fee for, warranty, support, indemnity or
 liability obligations to one or more recipients of Covered Code. However,
 You may do so only on Your own behalf, and not on behalf of the Initial
 Developer or any Contributor. You must make it absolutely clear than any
 such warranty, support, indemnity or liability obligation is offered by You
 alone, and You hereby agree to indemnify the Initial Developer and every
 Contributor for any liability incurred by the Initial Developer or such
 Contributor as a result of warranty, support, indemnity or liability terms
 You offer.
```

```
3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements
 of Sections 3.1, 3.2, 3.3, 3.4 and 3.5 have been met for that Covered
 Code, and if You include a notice stating that the Source Code version of
 the Covered Code is available under the terms of this License, including
 a description of how and where You have fulfilled the obligations of
 Section 3.2. The notice must be conspicuously included in any notice
 in an Executable version, related documentation or collateral in which
 You describe recipients' rights relating to the Covered Code. You may
 distribute the Executable version of Covered Code or ownership rights
 under a license of Your choice, which may contain terms different from
 this License, provided that You are in compliance with the terms of this
 License and that the license for the Executable version does not attempt to
 limit or alter the recipient's rights in the Source Code version from the
 rights set forth in this License. If You distribute the Executable version
 under a different license You must make it absolutely clear that any terms
 which differ from this License are offered by You alone, not by the Initial
 Developer or any Contributor. You hereby agree to indemnify the Initial
 Developer and every Contributor for any liability incurred by the Initial
 Developer or such Contributor as a result of any such terms You offer.
3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not
 governed by the terms of this License and distribute the Larger Work as a
 single product. In such a case, You must make sure the requirements of this
 License are fulfilled for the Covered Code.
4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this
 License with respect to some or all of the Covered Code due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be included
 in the legal file described in Section 3.4 and must be included with
 all distributions of the Source Code. Except to the extent prohibited by
 statute or regulation, such description must be sufficiently detailed for a
 recipient of ordinary skill to be able to understand it.
5. Application of this License.

This License applies to code to which the Initial Developer has attached the
 notice in Exhibit A and to related Covered Code.
6. Versions of the License.
6.1. New Versions

Netscape Communications Corporation ("Netscape") may publish revised and/or
 new versions of the License from time to time. Each version will be given a
 distinguishing version number.
6.2. Effect of New Versions

Once Covered Code has been published under a particular version of the
 License, You may always continue to use it under the terms of that version.
 You may also choose to use such Covered Code under the terms of any
 subsequent version of the License published by Netscape. No one other
 than Netscape has the right to modify the terms applicable to Covered Code
 created under this License.
6.3. Derivative Works

If You create or use a modified version of this License (which you may
 only do in order to apply it to code which is not already Covered Code
 governed by this License), You must (a) rename Your license so that the
 phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any
 confusingly similar phrase do not appear in your license (except to note
 that your license differs from this License) and (b) otherwise make it
```

```
 clear that Your version of the license contains terms which differ from the
 Mozilla Public License and Netscape Public License. (Filling in the name of
 the Initial Developer, Original Code or Contributor in the notice described
 in Exhibit A shall not of themselves be deemed to be modifications of this
 License.)
7. Disclaimer of warranty

Covered code is provided under this license on an "as is" basis, without
 warranty of any kind, either expressed or implied, including, without
 limitation, warranties that the covered code is free of defects,
 merchantable, fit for a particular purpose or non-infringing. The entire
 risk as to the quality and performance of the covered code is with
 you. Should any covered code prove defective in any respect, you (not
 the initial developer or any other contributor) assume the cost of any
 necessary servicing, repair or correction. This disclaimer of warranty
 constitutes an essential part of this license. No use of any covered code
 is authorized hereunder except under this disclaimer.
8. Termination

8.1. This License and the rights granted hereunder will terminate
 automatically if You fail to comply with terms herein and fail to cure such
 breach within 30 days of becoming aware of the breach. All sublicenses to
 the Covered Code which are properly granted shall survive any termination
 of this License. Provisions which, by their nature, must remain in effect
 beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim
 (excluding declatory judgment actions) against Initial Developer or a
 Contributor (the Initial Developer or Contributor against whom You file
 such action is referred to as "Participant") alleging that:

    such Participant's Contributor Version directly or indirectly infringes
 any patent, then any and all rights granted by such Participant to You
 under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
 from Participant terminate prospectively, unless if within 60 days after
 receipt of notice You either: (i) agree in writing to pay Participant
 a mutually agreeable reasonable royalty for Your past and future use of
 Modifications made by such Participant, or (ii) withdraw Your litigation
 claim with respect to the Contributor Version against such Participant. If
 within 60 days of notice, a reasonable royalty and payment arrangement are
 not mutually agreed upon in writing by the parties or the litigation claim
 is not withdrawn, the rights granted by Participant to You under Sections
 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day
 notice period specified above.
    any software, hardware, or device, other than such Participant's
 Contributor Version, directly or indirectly infringes any patent, then
 any rights granted to You by such Participant under Sections 2.1(b) and
 2.2(b) are revoked effective as of the date You first made, used, sold,
 distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging
 that such Participant's Contributor Version directly or indirectly
 infringes any patent where such claim is resolved (such as by license or
 settlement) prior to the initiation of patent infringement litigation,
 then the reasonable value of the licenses granted by such Participant under
 Sections 2.1 or 2.2 shall be taken into account in determining the amount
 or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all
 end user license agreements (excluding distributors and resellers) which
 have been validly granted by You or any distributor hereunder prior to
 termination shall survive termination.
9. Limitation of liability
```

```
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall you, the initial developer, any
 other contributor, or any distributor of covered code, or any supplier of
 any of such parties, be liable to any person for any indirect, special,
 incidental, or consequential damages of any character including, without
 limitation, damages for loss of goodwill, work stoppage, computer failure
 or malfunction, or any and all other commercial damages or losses, even
 if such party shall have been informed of the possibility of such damages.
 This limitation of liability shall not apply to liability for death or
 personal injury resulting from such party's negligence to the extent
 applicable law prohibits such limitation. Some jurisdictions do not allow
 the exclusion or limitation of incidental or consequential damages, so this
 exclusion and limitation may not apply to you.
10. U.S. government end users

The Covered Code is a "commercial item," as that term is defined in 48
 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and
 "commercial computer software documentation," as such terms are used in 48
 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R.
 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users
 acquire Covered Code with only those rights set forth herein.
11. Miscellaneous

This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. This License shall be governed by California law provisions
 (except to the extent applicable law, if any, provides otherwise),
 excluding its conflict-of-law provisions. With respect to disputes in
 which at least one party is a citizen of, or an entity chartered or
 registered to do business in the United States of America, any litigation
 relating to this License shall be subject to the jurisdiction of the
 Federal Courts of the Northern District of California, with venue lying
 in Santa Clara County, California, with the losing party responsible for
 costs, including without limitation, court costs and reasonable attorneys'
 fees and expenses. The application of the United Nations Convention on
 Contracts for the International Sale of Goods is expressly excluded. Any
 law or regulation which provides that the language of a contract shall be
 construed against the drafter shall not apply to this License.
12. Responsibility for claims

As between Initial Developer and the Contributors, each party is responsible
 for claims and damages arising, directly or indirectly, out of its
 utilization of rights under this License and You agree to work with
 Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.
13. Multiple-licensed code

Initial Developer may designate portions of the Covered Code as "Multiple-
Licensed". "Multiple-Licensed" means that the Initial Developer permits you
 to utilize portions of the Covered Code under Your choice of the MPL or
 the alternative licenses, if any, specified by the Initial Developer in the
 file described in Exhibit A.
Exhibit A - Mozilla Public License.

"The contents of this file are subject to the Mozilla Public License
Version 1.1 (the "License"); you may not use this file except in
compliance with the License. You may obtain a copy of the License at
https://www.mozilla.org/MPL/

Software distributed under the License is distributed on an "AS IS"
basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
License for the specific language governing rights and limitations
```

```
under the License.

The Original Code is ____________________________________.

The Initial Developer of the Original Code is ___________________________.
Portions created by _______________________ are Copyright (C) ______
________________________. All Rights Reserved.

Contributor(s): ______________________________________.

Alternatively, the contents of this file may be used under the terms
of the _____ license (the  "[___] License"), in which case the
provisions of [______] License are applicable instead of those
above. If you wish to allow use of your version of this file only
under the terms of the [____] License and not to allow others to use
your version of this file under the MPL, indicate your decision by
deleting the provisions above and replace them with the notice and
other provisions required by the [___] License. If you do not delete
the provisions above, a recipient may use your version of this file
under either the MPL or the [___] License."

NOTE: The text of this Exhibit A may differ slightly from the text of the
 notices in the Source Code files of the Original Code. You should use the
 text of this Exhibit A rather than the text found in the Original Code
 Source Code for Your Modifications.


=========================================================================
```

Provider: Coda Hale / Component(s): DropWizard 1.3.4

```
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2016 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
```

```
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
```

```
   You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
   You must cause any modified files to carry prominent notices stating
 that You changed the files; and
   You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
   If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

   You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.
```

```
9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=====================================================================

Compile Dependencies

=====================================================================

Apache 2.0
dropwizard-util 1.2.5
dropwizard-jackson 1.2.5
dropwizard-validation 1.2.5
dropwizard-configuration 1.2.5
dropwizard-logging 1.2.5
dropwizard-metrics 1.2.5
dropwizard-jersey 1.2.5
dropwizard-servlets 1.2.5
dropwizard-jetty 1.2.5
dropwizard-lifecycle 1.2.5
dropwizard-logging 1.2.5
dropwizard-request-logging 1.2.5
metrics-core 3.2.5
metrics-jvm 3.2.5
metrics-servlets 3.2.5
metrics-healthchecks 3.2.5
metrics-logback 3.2.5
metrics-jetty9 3.2.5
metrics-jersey2 3.2.5
metrics-annotations 3.2.5
jsr305 3.0.2
jsr305 1.3.9
guava 23.1-jre
guava 23.5-jre
joda-time 2.9.9
jackson-annotations 2.9.5
jackson-core  2.9.5
jackson-databind  2.9.5
jackson-datatype-guava  2.9.5
jackson-datatype-jsr310  2.9.5
jackson-datatype-jdk8  2.9.5
jackson-datatype-joda  2.9.5
jackson-dataformat-yaml  2.9.5
jackson-module-afterburner 2.9.5
jackson-module-parameter-names 2.9.5
jackson-jaxrs-json-provider 2.9.5
jackson-jaxrs-base 2.9.5
hibernate-validator 5.4.2Final
classmate 1.3.1
validation-api 1.1.0Final
commons-lang3 3.6
snakeyaml 1.17
javax.inject 1
error_prone_annotations 2.0.18
j2objc-annotations 1.1
```

```
profiler 1.0.2



MIT
argparse4j 0.7.0
slf4j-api 1.7.25
slf4j-api 1.7.25
jul-to-slf4j 1.7.25
jcl-over-slf4j 1.7.25
animal-sniffer-annotations 1.14
checker-qual 2.0.0

Apache 2.0 + EPL 1.0
jetty-setuid-java 1.0.3
jetty-server 9.4.8.v20171121
jetty-util 9.4.8.v20171121
jetty-http 9.4.8.v20171121
jetty-io 9.4.8.v20171121
jetty-webapp 9.4.8.v20171121
jetty-continuation 9.4.8.v20171121
jetty-xml 9.4.8.v20171121
jetty-servlet 9.4.8.v20171121
jetty-security 9.4.7.v20170914
jetty-servlets 9.4.8.v20171121


EPL 1.0 + LGPL 2.1
logback-core 1.2.3
logback-classic 1.2.3
logback-classic 1.1.10
logback-core 1.1.10
logback-access 1.2.3



Apache 2.0 + CC0 1.0 Public
jboss-logging 3.3.0Final



Apache 2.0 + MIT
log4j-over-slf4j 1.7.24
animal-sniffer-annotations 1.14



Apache 2.0 + LGPL 2.1 + MPl 1.1
javassist 3.21.0-GA



==========================================================================================
==========================================================================================

Apache 2.0

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
```

```
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
```

```
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=================================================================

argparse4j 0.7.0


/*
 * Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
=======================================================

slf4j-api 1.7.24
slf4j-api 1.7.22
jul-to-slf4j 1.7.24
jcl-over-slf4j 1.7.24
```

```
Copyright (c) 2004-2017 QOS.ch All rights reserved. Permission is hereby
 granted, free of charge, to any person obtaining a copy of this software
 and associated documentation files (the "Software"), to deal in the
 Software without restriction, including without limitation the rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software
 is furnished to do so, subject to the following conditions: The above
 copyright notice and this permission notice shall be included in all copies
 or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS",
 WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
 TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
 AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
 SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=======================================================


EPL 1.0

 Eclipse Public License, Version 1.0 (EPL-1.0)

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

    a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
    b) in the case of each subsequent Contributor:
    i) changes to the Program, and
    ii) additions to the Program;
    where such changes and/or additions to the Program originate from and
 are distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

    a) Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free copyright license
 to reproduce, prepare derivative works of, publicly display, publicly
 perform, distribute and sublicense the Contribution of such Contributor, if
 any, and such derivative works, in source code and object code form.
```

```
    b) Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free patent license
 under Licensed Patents to make, use, sell, offer to sell, import and
 otherwise transfer the Contribution of such Contributor, if any, in
 source code and object code form. This patent license shall apply to
 the combination of the Contribution and the Program if, at the time the
 Contribution is added by the Contributor, such addition of the Contribution
 causes such combination to be covered by the Licensed Patents. The patent
 license shall not apply to any other combinations which include the
 Contribution. No hardware per se is licensed hereunder.
    c) Recipient understands that although each Contributor grants the
 licenses to its Contributions set forth herein, no assurances are provided
 by any Contributor that the Program does not infringe the patent or
 other intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
    d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

    a) it complies with the terms and conditions of this Agreement; and
    b) its license agreement:
    i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
    ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
    iii) states that any provisions which differ from this Agreement are
 offered by that Contributor alone and not by any other party; and
    iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

    a) it must be made available under this Agreement; and
    b) a copy of this Agreement must be included with each copy of the
 Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
```

```
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
```

```
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.


============================================================

CDDL 1.0

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE Version 1.0 (CDDL-1.0) (text)

    1. Definitions.

        1.1. Contributor means each individual or entity that creates or
 contributes to the creation of Modifications.

        1.2. Contributor Version means the combination of the Original
 Software, prior Modifications used by a Contributor (if any), and the
 Modifications made by that particular Contributor.

        1.3. Covered Software means (a) the Original Software, or (b)
 Modifications, or (c) the combination of files containing Original Software
 with files containing Modifications, in each case including portions
 thereof.

        1.4. Executable means the Covered Software in any form other than
 Source Code.

        1.5. Initial Developer means the individual or entity that first
 makes Original Software available under this License.
```

```
       1.6. Larger Work means a work which combines Covered Software or
portions thereof with code not governed by the terms of this License.

       1.7. License means this document.

       1.8. Licensable means having the right to grant, to the maximum
extent possible, whether at the time of the initial grant or subsequently
acquired, any and all of the rights conveyed herein.

       1.9. Modifications means the Source Code and Executable form of any
of the following:

           A. Any file that results from an addition to, deletion from
or modification of the contents of a file containing Original Software or
previous Modifications;

           B. Any new file that contains any part of the Original Software
or previous Modification; or

           C. Any new file that is contributed or otherwise made available
under the terms of this License.

       1.10. Original Software means the Source Code and Executable form of
computer software code that is originally released under this License.

       1.11. Patent Claims means any patent claim(s), now owned or
hereafter acquired, including without limitation, method, process, and
apparatus claims, in any patent Licensable by grantor.

       1.12. Source Code means (a) the common form of computer software
code in which modifications are made and (b) associated documentation
included in or with such code.

       1.13. You (or Your) means an individual or a legal entity exercising
rights under, and complying with all of the terms of, this License. For
legal entities, You includes any entity which controls, is controlled
by, or is under common control with You. For purposes of this definition,
control means (a) the power, direct or indirect, to cause the direction
or management of such entity, whether by contract or otherwise, or (b)
ownership of more than fifty percent (50%) of the outstanding shares or
beneficial ownership of such entity.

   2. License Grants.

       2.1. The Initial Developer Grant.

       Conditioned upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, the Initial Developer hereby
grants You a world-wide, royalty-free, non-exclusive license:

           (a) under intellectual property rights (other than patent or
trademark) Licensable by Initial Developer, to use, reproduce, modify,
display, perform, sublicense and distribute the Original Software (or
portions thereof), with or without Modifications, and/or as part of a
Larger Work; and

           (b) under Patent Claims infringed by the making, using or
selling of Original Software, to make, have made, use, practice, sell,
and offer for sale, and/or otherwise dispose of the Original Software (or
portions thereof).

           (c) The licenses granted in Sections 2.1(a) and (b) are
effective on the date Initial Developer first distributes or otherwise
```

```
makes the Original Software available to a third party under the terms of
this License.

           (d) Notwithstanding Section 2.1(b) above, no patent license is
granted: (1) for code that You delete from the Original Software, or (2)
for infringements caused by: (i) the modification of the Original Software,
or (ii) the combination of the Original Software with other software or
devices.

       2.2. Contributor Grant.

       Conditioned upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, each Contributor hereby grants
You a world-wide, royalty-free, non-exclusive license:

           (a) under intellectual property rights (other than patent or
trademark) Licensable by Contributor to use, reproduce, modify, display,
perform, sublicense and distribute the Modifications created by such
Contributor (or portions thereof), either on an unmodified basis, with
other Modifications, as Covered Software and/or as part of a Larger Work;
and

           (b) under Patent Claims infringed by the making, using, or
selling of Modifications made by that Contributor either alone and/or in
combination with its Contributor Version (or portions of such combination),
to make, use, sell, offer for sale, have made, and/or otherwise dispose
of: (1) Modifications made by that Contributor (or portions thereof); and
(2) the combination of Modifications made by that Contributor with its
Contributor Version (or portions of such combination).

           (c) The licenses granted in Sections 2.2(a) and 2.2(b) are
effective on the date Contributor first distributes or otherwise makes the
Modifications available to a third party.

           (d) Notwithstanding Section 2.2(b) above, no patent license is
granted: (1) for any code that Contributor has deleted from the Contributor
Version; (2) for infringements caused by: (i) third party modifications of
Contributor Version, or (ii) the combination of Modifications made by that
Contributor with other software (except as part of the Contributor Version)
or other devices; or (3) under Patent Claims infringed by Covered Software
in the absence of Modifications made by that Contributor.

   3. Distribution Obligations.

       3.1. Availability of Source Code.

       Any Covered Software that You distribute or otherwise make available
in Executable form must also be made available in Source Code form and that
Source Code form must be distributed only under the terms of this License.
You must include a copy of this License with every copy of the Source Code
form of the Covered Software You distribute or otherwise make available.
You must inform recipients of any such Covered Software in Executable form
as to how they can obtain such Covered Software in Source Code form in
a reasonable manner on or through a medium customarily used for software
exchange.

       3.2. Modifications.

       The Modifications that You create or to which You contribute are
governed by the terms of this License. You represent that You believe Your
Modifications are Your original creation(s) and/or You have sufficient
rights to grant the rights conveyed by this License.

       3.3. Required Notices.
```

```
       You must include a notice in each of Your Modifications that
identifies You as the Contributor of the Modification. You may not remove
or alter any copyright, patent or trademark notices contained within the
Covered Software, or any notices of licensing or any descriptive text
giving attribution to any Contributor or the Initial Developer.

       3.4. Application of Additional Terms.

       You may not offer or impose any terms on any Covered Software in
Source Code form that alters or restricts the applicable version of this
License or the recipients rights hereunder. You may choose to offer, and
to charge a fee for, warranty, support, indemnity or liability obligations
to one or more recipients of Covered Software. However, you may do so
only on Your own behalf, and not on behalf of the Initial Developer or
any Contributor. You must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by You alone, and You
hereby agree to indemnify the Initial Developer and every Contributor for
any liability incurred by the Initial Developer or such Contributor as a
result of warranty, support, indemnity or liability terms You offer.

       3.5. Distribution of Executable Versions.

       You may distribute the Executable form of the Covered Software under
the terms of this License or under the terms of a license of Your choice,
which may contain terms different from this License, provided that You are
in compliance with the terms of this License and that the license for the
Executable form does not attempt to limit or alter the recipients rights
in the Source Code form from the rights set forth in this License. If
You distribute the Covered Software in Executable form under a different
license, You must make it absolutely clear that any terms which differ
from this License are offered by You alone, not by the Initial Developer or
Contributor. You hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial Developer or such
Contributor as a result of any such terms You offer.

       3.6. Larger Works.

       You may create a Larger Work by combining Covered Software with
other code not governed by the terms of this License and distribute the
Larger Work as a single product. In such a case, You must make sure the
requirements of this License are fulfilled for the Covered Software.

   4. Versions of the License.

       4.1. New Versions.

       Sun Microsystems, Inc. is the initial license steward and may
publish revised and/or new versions of this License from time to time. Each
version will be given a distinguishing version number. Except as provided
in Section 4.3, no one other than the license steward has the right to
modify this License.

       4.2. Effect of New Versions.

       You may always continue to use, distribute or otherwise make the
Covered Software available under the terms of the version of the License
under which You originally received the Covered Software. If the Initial
Developer includes a notice in the Original Software prohibiting it from
being distributed or otherwise made available under any subsequent version
of the License, You must distribute and make the Covered Software available
under the terms of the version of the License under which You originally
received the Covered Software. Otherwise, You may also choose to use,
```

```
distribute or otherwise make the Covered Software available under the terms
of any subsequent version of the License published by the license steward.

       4.3. Modified Versions.

       When You are an Initial Developer and You want to create a new
license for Your Original Software, You may create and use a modified
version of this License if You: (a) rename the license and remove any
references to the name of the license steward (except to note that the
license differs from this License); and (b) otherwise make it clear that
the license contains terms which differ from this License.

   5. DISCLAIMER OF WARRANTY.

   COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS,
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF
DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS
WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU
(NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF
ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED
SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

   6. TERMINATION.

       6.1. This License and the rights granted hereunder will terminate
automatically if You fail to comply with terms herein and fail to cure such
breach within 30 days of becoming aware of the breach. Provisions which, by
their nature, must remain in effect beyond the termination of this License
shall survive.

       6.2. If You assert a patent infringement claim (excluding
declaratory judgment actions) against Initial Developer or a Contributor
(the Initial Developer or Contributor against whom You assert such claim
is referred to as Participant) alleging that the Participant Software
(meaning the Contributor Version where the Participant is a Contributor
or the Original Software where the Participant is the Initial Developer)
directly or indirectly infringes any patent, then any and all rights
granted directly or indirectly to You by such Participant, the Initial
Developer (if the Initial Developer is not the Participant) and all
Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60
days notice from Participant terminate prospectively and automatically at
the expiration of such 60 day notice period, unless if within such 60 day
period You withdraw Your claim with respect to the Participant Software
against such Participant either unilaterally or pursuant to a written
agreement with Participant.

       6.3. In the event of termination under Sections 6.1 or 6.2 above,
all end user licenses that have been validly granted by You or any
distributor hereunder prior to termination (excluding licenses granted to
You by any distributor) shall survive termination.

   7. LIMITATION OF LIABILITY.

   UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
(INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL
DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE,
OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY
INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER
INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL,
WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED
```

```
 OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
 APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTYS
 NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME
 JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR
 CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO
 YOU.

    8. U.S. GOVERNMENT END USERS.

    The Covered Software is a commercial item, as that term is defined in
 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software
 (as that term is defined at 48 C.F.R.  252.227-7014(a)(1)) and commercial
 computer software documentation as such terms are used in 48 C.F.R. 12.212
 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
 through 227.7202-4 (June 1995), all U.S. Government End Users acquire
 Covered Software with only those rights set forth herein. This U.S.
 Government Rights clause is in lieu of, and supersedes, any other FAR,
 DFAR, or other clause or provision that addresses Government rights in
 computer software under this License.

    9. MISCELLANEOUS.

    This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. This License shall be governed by the law of the jurisdiction
 specified in a notice contained within the Original Software (except to
 the extent applicable law, if any, provides otherwise), excluding such
 jurisdictions conflict-of-law provisions. Any litigation relating to this
 License shall be subject to the jurisdiction of the courts located in
 the jurisdiction and venue specified in a notice contained within the
 Original Software, with the losing party responsible for costs, including,
 without limitation, court costs and reasonable attorneys fees and expenses.
 The application of the United Nations Convention on Contracts for the
 International Sale of Goods is expressly excluded. Any law or regulation
 which provides that the language of a contract shall be construed against
 the drafter shall not apply to this License. You agree that You alone are
 responsible for compliance with the United States export administration
 regulations (and the export control laws and regulation of any other
 countries) when You use, distribute or otherwise make available any Covered
 Software.

    10. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
 responsible for claims and damages arising, directly or indirectly, out
 of its utilization of rights under this License and You agree to work
 with Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.

============================================================

CDDL 1.1

1. Definitions.

  1.1. "Contributor" means each individual or entity that creates or
  contributes to the creation of Modifications.

  1.2. "Contributor Version" means the combination of the Original
  Software, prior Modifications used by a Contributor (if any), and
  the Modifications made by that particular Contributor.
```

```
  1.3. "Covered Software" means (a) the Original Software, or (b)
  Modifications, or (c) the combination of files containing Original
  Software with files containing Modifications, in each case including
  portions thereof.

  1.4. "Executable" means the Covered Software in any form other than
  Source Code.

  1.5. "Initial Developer" means the individual or entity that first
  makes Original Software available under this License.

  1.6. "Larger Work" means a work which combines Covered Software or
  portions thereof with code not governed by the terms of this License.

  1.7. "License" means this document.

  1.8. "Licensable" means having the right to grant, to the maximum
  extent possible, whether at the time of the initial grant or
  subsequently acquired, any and all of the rights conveyed herein.

  1.9. "Modifications" means the Source Code and Executable form of
  any of the following:

  A. Any file that results from an addition to, deletion from or
  modification of the contents of a file containing Original Software
  or previous Modifications;

  B. Any new file that contains any part of the Original Software or
  previous Modification; or

  C. Any new file that is contributed or otherwise made available
  under the terms of this License.

  1.10. "Original Software" means the Source Code and Executable form
  of computer software code that is originally released under this
  License.

  1.11. "Patent Claims" means any patent claim(s), now owned or
  hereafter acquired, including without limitation, method, process,
  and apparatus claims, in any patent Licensable by grantor.

  1.12. "Source Code" means (a) the common form of computer software
  code in which modifications are made and (b) associated
  documentation included in or with such code.

  1.13. "You" (or "Your") means an individual or a legal entity
  exercising rights under, and complying with all of the terms of,
  this License. For legal entities, "You" includes any entity which
  controls, is controlled by, or is under common control with You. For
  purposes of this definition, "control" means (a) the power, direct
  or indirect, to cause the direction or management of such entity,
  whether by contract or otherwise, or (b) ownership of more than
  fifty percent (50%) of the outstanding shares or beneficial
  ownership of such entity.

2. License Grants.

  2.1. The Initial Developer Grant.

  Conditioned upon Your compliance with Section 3.1 below and subject
  to third party intellectual property claims, the Initial Developer
  hereby grants You a world-wide, royalty-free, non-exclusive license:

  (a) under intellectual property rights (other than patent or
```

```
  trademark) Licensable by Initial Developer, to use, reproduce,
  modify, display, perform, sublicense and distribute the Original
  Software (or portions thereof), with or without Modifications,
  and/or as part of a Larger Work; and

  (b) under Patent Claims infringed by the making, using or selling of
  Original Software, to make, have made, use, practice, sell, and
  offer for sale, and/or otherwise dispose of the Original Software
  (or portions thereof).

  (c) The licenses granted in Sections 2.1(a) and (b) are effective on
  the date Initial Developer first distributes or otherwise makes the
  Original Software available to a third party under the terms of this
  License.

  (d) Notwithstanding Section 2.1(b) above, no patent license is
  granted: (1) for code that You delete from the Original Software, or
  (2) for infringements caused by: (i) the modification of the
  Original Software, or (ii) the combination of the Original Software
  with other software or devices.

  2.2. Contributor Grant.

  Conditioned upon Your compliance with Section 3.1 below and subject
  to third party intellectual property claims, each Contributor hereby
  grants You a world-wide, royalty-free, non-exclusive license:

  (a) under intellectual property rights (other than patent or
  trademark) Licensable by Contributor to use, reproduce, modify,
  display, perform, sublicense and distribute the Modifications
  created by such Contributor (or portions thereof), either on an
  unmodified basis, with other Modifications, as Covered Software
  and/or as part of a Larger Work; and

  (b) under Patent Claims infringed by the making, using, or selling
  of Modifications made by that Contributor either alone and/or in
  combination with its Contributor Version (or portions of such
  combination), to make, use, sell, offer for sale, have made, and/or
  otherwise dispose of: (1) Modifications made by that Contributor (or
  portions thereof); and (2) the combination of Modifications made by
  that Contributor with its Contributor Version (or portions of such
  combination).

  (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
  on the date Contributor first distributes or otherwise makes the
  Modifications available to a third party.

  (d) Notwithstanding Section 2.2(b) above, no patent license is
  granted: (1) for any code that Contributor has deleted from the
  Contributor Version; (2) for infringements caused by: (i) third
  party modifications of Contributor Version, or (ii) the combination
  of Modifications made by that Contributor with other software
  (except as part of the Contributor Version) or other devices; or (3)
  under Patent Claims infringed by Covered Software in the absence of
  Modifications made by that Contributor.

3. Distribution Obligations.

  3.1. Availability of Source Code.

  Any Covered Software that You distribute or otherwise make available
  in Executable form must also be made available in Source Code form
  and that Source Code form must be distributed only under the terms
  of this License. You must include a copy of this License with every
```

```
   copy of the Source Code form of the Covered Software You distribute
   or otherwise make available. You must inform recipients of any such
   Covered Software in Executable form as to how they can obtain such
   Covered Software in Source Code form in a reasonable manner on or
   through a medium customarily used for software exchange.

   3.2. Modifications.

   The Modifications that You create or to which You contribute are
   governed by the terms of this License. You represent that You
   believe Your Modifications are Your original creation(s) and/or You
   have sufficient rights to grant the rights conveyed by this License.

   3.3. Required Notices.

   You must include a notice in each of Your Modifications that
   identifies You as the Contributor of the Modification. You may not
   remove or alter any copyright, patent or trademark notices contained
   within the Covered Software, or any notices of licensing or any
   descriptive text giving attribution to any Contributor or the
   Initial Developer.

   3.4. Application of Additional Terms.

   You may not offer or impose any terms on any Covered Software in
   Source Code form that alters or restricts the applicable version of
   this License or the recipients' rights hereunder. You may choose to
   offer, and to charge a fee for, warranty, support, indemnity or
   liability obligations to one or more recipients of Covered Software.
   However, you may do so only on Your own behalf, and not on behalf of
   the Initial Developer or any Contributor. You must make it
   absolutely clear that any such warranty, support, indemnity or
   liability obligation is offered by You alone, and You hereby agree
   to indemnify the Initial Developer and every Contributor for any
   liability incurred by the Initial Developer or such Contributor as a
   result of warranty, support, indemnity or liability terms You offer.

   3.5. Distribution of Executable Versions.

   You may distribute the Executable form of the Covered Software under
   the terms of this License or under the terms of a license of Your
   choice, which may contain terms different from this License,
   provided that You are in compliance with the terms of this License
   and that the license for the Executable form does not attempt to
   limit or alter the recipient's rights in the Source Code form from
   the rights set forth in this License. If You distribute the Covered
   Software in Executable form under a different license, You must make
   it absolutely clear that any terms which differ from this License
   are offered by You alone, not by the Initial Developer or
   Contributor. You hereby agree to indemnify the Initial Developer and
   every Contributor for any liability incurred by the Initial
   Developer or such Contributor as a result of any such terms You offer.

   3.6. Larger Works.

   You may create a Larger Work by combining Covered Software with
   other code not governed by the terms of this License and distribute
   the Larger Work as a single product. In such a case, You must make
   sure the requirements of this License are fulfilled for the Covered
   Software.

4. Versions of the License.

   4.1. New Versions.
```

```
  Oracle is the initial license steward and may publish revised and/or
  new versions of this License from time to time. Each version will be
  given a distinguishing version number. Except as provided in Section
  4.3, no one other than the license steward has the right to modify
  this License.

  4.2. Effect of New Versions.

  You may always continue to use, distribute or otherwise make the
  Covered Software available under the terms of the version of the
  License under which You originally received the Covered Software. If
  the Initial Developer includes a notice in the Original Software
  prohibiting it from being distributed or otherwise made available
  under any subsequent version of the License, You must distribute and
  make the Covered Software available under the terms of the version
  of the License under which You originally received the Covered
  Software. Otherwise, You may also choose to use, distribute or
  otherwise make the Covered Software available under the terms of any
  subsequent version of the License published by the license steward.

  4.3. Modified Versions.

  When You are an Initial Developer and You want to create a new
  license for Your Original Software, You may create and use a
  modified version of this License if You: (a) rename the license and
  remove any references to the name of the license steward (except to
  note that the license differs from this License); and (b) otherwise
  make it clear that the license contains terms which differ from this
  License.

5. DISCLAIMER OF WARRANTY.

  COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
  WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
  INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
  IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
  NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
  THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
  DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
  OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
  REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
  ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
  AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

  6.1. This License and the rights granted hereunder will terminate
  automatically if You fail to comply with terms herein and fail to
  cure such breach within 30 days of becoming aware of the breach.
  Provisions which, by their nature, must remain in effect beyond the
  termination of this License shall survive.

  6.2. If You assert a patent infringement claim (excluding
  declaratory judgment actions) against Initial Developer or a
  Contributor (the Initial Developer or Contributor against whom You
  assert such claim is referred to as "Participant") alleging that the
  Participant Software (meaning the Contributor Version where the
  Participant is a Contributor or the Original Software where the
  Participant is the Initial Developer) directly or indirectly
  infringes any patent, then any and all rights granted directly or
  indirectly to You by such Participant, the Initial Developer (if the
  Initial Developer is not the Participant) and all Contributors under
  Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
```

```
  from Participant terminate prospectively and automatically at the
  expiration of such 60 day notice period, unless if within such 60
  day period You withdraw Your claim with respect to the Participant
  Software against such Participant either unilaterally or pursuant to
  a written agreement with Participant.

  6.3. If You assert a patent infringement claim against Participant
  alleging that the Participant Software directly or indirectly
  infringes any patent where such claim is resolved (such as by
  license or settlement) prior to the initiation of patent
  infringement litigation, then the reasonable value of the licenses
  granted by such Participant under Sections 2.1 or 2.2 shall be taken
  into account in determining the amount or value of any payment or
  license.

  6.4. In the event of termination under Sections 6.1 or 6.2 above,
  all end user licenses that have been validly granted by You or any
  distributor hereunder prior to termination (excluding licenses
  granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

  UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
  (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
  INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
  COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
  TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
  CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
  LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
  FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
  LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
  POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
  APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
  PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
  LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
  LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
  AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

  The Covered Software is a "commercial item," as that term is defined
  in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
  software" (as that term is defined at 48 C.F.R. §
  252.227-7014(a)(1)) and "commercial computer software documentation"
  as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
  with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
  (June 1995), all U.S. Government End Users acquire Covered Software
  with only those rights set forth herein. This U.S. Government Rights
  clause is in lieu of, and supersedes, any other FAR, DFAR, or other
  clause or provision that addresses Government rights in computer
  software under this License.

9. MISCELLANEOUS.

  This License represents the complete agreement concerning subject
  matter hereof. If any provision of this License is held to be
  unenforceable, such provision shall be reformed only to the extent
  necessary to make it enforceable. This License shall be governed by
  the law of the jurisdiction specified in a notice contained within
  the Original Software (except to the extent applicable law, if any,
  provides otherwise), excluding such jurisdiction's conflict-of-law
  provisions. Any litigation relating to this License shall be subject
  to the jurisdiction of the courts located in the jurisdiction and
  venue specified in a notice contained within the Original Software,
```

```
  with the losing party responsible for costs, including, without
  limitation, court costs and reasonable attorneys' fees and expenses.
  The application of the United Nations Convention on Contracts for
  the International Sale of Goods is expressly excluded. Any law or
  regulation which provides that the language of a contract shall be
  construed against the drafter shall not apply to this License. You
  agree that You alone are responsible for compliance with the United
  States export administration regulations (and the export control
  laws and regulation of any other countries) when You use, distribute
  or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

  As between Initial Developer and the Contributors, each party is
  responsible for claims and damages arising, directly or indirectly,
  out of its utilization of rights under this License and You agree to
  work with Initial Developer and Contributors to distribute such
  responsibility on an equitable basis. Nothing herein is intended or
  shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
 LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.

==================================================================

GPL 2

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
```

```
For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
```

```
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
```

```
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.
```

```
8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
```

```
    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."

You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
```

```
licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.

====================================================

LGPL 2.1

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
```

```
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
```

```
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.
```

```
1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices stating
 that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no charge to
 all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a table
 of data to be supplied by an application program that uses the facility,
 other than as an argument passed when the facility is invoked, then you
 must make a good faith effort to ensure that, in the event an application
 does not supply such function or table, the facility still operates, and
 performs whatever part of its purpose remains meaningful.

    (For example, a function in a library to compute square roots has a
 purpose that is entirely well-defined independent of the application.
 Therefore, Subsection 2d requires that any application-supplied function or
 table used by this function must be optional: if the application does not
 supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.
```

```
This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

    a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
```

```
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
    b) Use a suitable shared library mechanism for linking with the Library.
 A suitable mechanism is one that (1) uses at run time a copy of the
 library already present on the user's computer system, rather than copying
 library functions into the executable, and (2) will operate properly with
 a modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
    c) Accompany the work with a written offer, valid for at least three
 years, to give the same user the materials specified in Subsection 6a,
 above, for a charge no more than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
    e) Verify that the user has already received a copy of these materials
 or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

    a) Accompany the combined library with a copy of the same work based
 on the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
    b) Give prominent notice with the combined library of the fact that
 part of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
```

```
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
```

```
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS


=============================================

Creative Commons 1.0

     CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
 LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-
CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-
IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS
 DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS
 LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE
 INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
 exclusive Copyright and Related Rights (defined below) upon the creator
 and subsequent owner(s) (each and all, an "owner") of an original work of
 authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the
 purpose of contributing to a commons of creative, cultural and scientific
 works ("Commons") that the public can reliably and without fear of later
 claims of infringement build upon, modify, incorporate in other works,
 reuse and redistribute as freely as possible in any form whatsoever and
 for any purposes, including without limitation commercial purposes. These
 owners may contribute to the Commons to promote the ideal of a free culture
 and the further production of creative, cultural and scientific works, or
 to gain reputation or greater distribution for their Work in part through
 the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of additional consideration or compensation, the person associating CC0
 with a Work (the "Affirmer"), to the extent that he or she is an owner
 of Copyright and Related Rights in the Work, voluntarily elects to apply
 CC0 to the Work and publicly distribute the Work under its terms, with
```

```
 knowledge of his or her Copyright and Related Rights in the Work and the
 meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
 protected by copyright and related or neighboring rights ("Copyright and
 Related Rights"). Copyright and Related Rights include, but are not limited
 to, the following:

    the right to reproduce, adapt, distribute, perform, display,
 communicate, and translate a Work;
    moral rights retained by the original author(s) and/or performer(s);
    publicity and privacy rights pertaining to a person's image or likeness
 depicted in a Work;
    rights protecting against unfair competition in regards to a Work,
 subject to the limitations in paragraph 4(a), below;
    rights protecting the extraction, dissemination, use and reuse of data
 in a Work;
    database rights (such as those arising under Directive 96/9/EC of
 the European Parliament and of the Council of 11 March 1996 on the legal
 protection of databases, and under any national implementation thereof,
 including any amended or successor version of such directive); and
    other similar, equivalent or corresponding rights throughout the
 world based on applicable law or treaty, and any national implementations
 thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of,
 applicable law, Affirmer hereby overtly, fully, permanently, irrevocably
 and unconditionally waives, abandons, and surrenders all of Affirmer's
 Copyright and Related Rights and associated claims and causes of action,
 whether now known or unknown (including existing as well as future claims
 and causes of action), in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "Waiver").
 Affirmer makes the Waiver for the benefit of each member of the public
 at large and to the detriment of Affirmer's heirs and successors, fully
 intending that such Waiver shall not be subject to revocation, rescission,
 cancellation, termination, or any other legal or equitable action to
 disrupt the quiet enjoyment of the Work by the public as contemplated by
 Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
 be judged legally invalid or ineffective under applicable law, then the
 Waiver shall be preserved to the maximum extent permitted taking into
 account Affirmer's express Statement of Purpose. In addition, to the
 extent the Waiver is so judged Affirmer hereby grants to each affected
 person a royalty-free, non transferable, non sublicensable, non exclusive,
 irrevocable and unconditional license to exercise Affirmer's Copyright
 and Related Rights in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "License").
 The License shall be deemed effective as of the date CC0 was applied by
 Affirmer to the Work. Should any part of the License for any reason be
 judged legally invalid or ineffective under applicable law, such partial
 invalidity or ineffectiveness shall not invalidate the remainder of the
 License, and in such case Affirmer hereby affirms that he or she will
 not (i) exercise any of his or her remaining Copyright and Related Rights
 in the Work or (ii) assert any associated claims and causes of action
 with respect to the Work, in either case contrary to Affirmer's express
 Statement of Purpose.
```

```
4. Limitations and Disclaimers.

    No trademark or patent rights held by Affirmer are waived, abandoned,
 surrendered, licensed or otherwise affected by this document.
    Affirmer offers the Work as-is and makes no representations or
 warranties of any kind concerning the Work, express, implied, statutory
 or otherwise, including without limitation warranties of title,
 merchantability, fitness for a particular purpose, non infringement, or the
 absence of latent or other defects, accuracy, or the present or absence of
 errors, whether or not discoverable, all to the greatest extent permissible
 under applicable law.
    Affirmer disclaims responsibility for clearing rights of other persons
 that may apply to the Work or any use thereof, including without limitation
 any person's Copyright and Related Rights in the Work. Further, Affirmer
 disclaims responsibility for obtaining any necessary consents, permissions
 or other rights required for any use of the Work.
    Affirmer understands and acknowledges that Creative Commons is not a
 party to this document and has no duty or obligation with respect to this
 CC0 or use of the Work.


==================================================

GPL 3.0

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license
 document, but changing it is not allowed.
Preamble

The GNU General Public License is a free, copyleft license for software and
 other kinds of works.

The licenses for most software and other practical works are designed to
 take away your freedom to share and change the works. By contrast, the GNU
 General Public License is intended to guarantee your freedom to share and
 change all versions of a program--to make sure it remains free software
 for all its users. We, the Free Software Foundation, use the GNU General
 Public License for most of our software; it applies also to any other work
 released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
 General Public Licenses are designed to make sure that you have the freedom
 to distribute copies of free software (and charge for them if you wish),
 that you receive source code or can get it if you want it, that you can
 change the software or use pieces of it in new free programs, and that you
 know you can do these things.

To protect your rights, we need to prevent others from denying you these
 rights or asking you to surrender the rights. Therefore, you have certain
 responsibilities if you distribute copies of the software, or if you modify
 it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or
 for a fee, you must pass on to the recipients the same freedoms that you
 received. You must make sure that they, too, receive or can get the source
 code. And you must show them these terms so they know their rights.
```

```
Developers that use the GNU GPL protect your rights with two steps: (1)
 assert copyright on the software, and (2) offer you this License giving you
 legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that
 there is no warranty for this free software. For both users' and authors'
 sake, the GPL requires that modified versions be marked as changed, so that
 their problems will not be attributed erroneously to authors of previous
 versions.

Some devices are designed to deny users access to install or run modified
 versions of the software inside them, although the manufacturer can do
 so. This is fundamentally incompatible with the aim of protecting users'
 freedom to change the software. The systematic pattern of such abuse occurs
 in the area of products for individuals to use, which is precisely where
 it is most unacceptable. Therefore, we have designed this version of the
 GPL to prohibit the practice for those products. If such problems arise
 substantially in other domains, we stand ready to extend this provision
 to those domains in future versions of the GPL, as needed to protect the
 freedom of users.

Finally, every program is threatened constantly by software patents. States
 should not allow patents to restrict development and use of software
 on general-purpose computers, but in those that do, we wish to avoid
 the special danger that patents applied to a free program could make it
 effectively proprietary. To prevent this, the GPL assures that patents
 cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification
 follow.
TERMS AND CONDITIONS
0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of
 works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License.
 Each licensee is addressed as “you”. “Licensees” and “recipients” may be
 individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a
 fashion requiring copyright permission, other than the making of an exact
 copy. The resulting work is called a “modified version” of the earlier work
 or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the
 Program.

To “propagate” a work means to do anything with it that, without permission,
 would make you directly or secondarily liable for infringement under
 applicable copyright law, except executing it on a computer or modifying a
 private copy. Propagation includes copying, distribution (with or without
 modification), making available to the public, and in some countries other
 activities as well.

To “convey” a work means any kind of propagation that enables other parties
 to make or receive copies. Mere interaction with a user through a computer
 network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the
 extent that it includes a convenient and prominently visible feature that
 (1) displays an appropriate copyright notice, and (2) tells the user that
```

```
 there is no warranty for the work (except to the extent that warranties are
 provided), that licensees may convey the work under this License, and how
 to view a copy of this License. If the interface presents a list of user
 commands or options, such as a menu, a prominent item in the list meets
 this criterion.
1. Source Code.

The “source code” for a work means the preferred form of the work for making
 modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official
 standard defined by a recognized standards body, or, in the case of
 interfaces specified for a particular programming language, one that is
 widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than
 the work as a whole, that (a) is included in the normal form of packaging
 a Major Component, but which is not part of that Major Component, and (b)
 serves only to enable use of the work with that Major Component, or to
 implement a Standard Interface for which an implementation is available
 to the public in source code form. A “Major Component”, in this context,
 means a major essential component (kernel, window system, and so on) of the
 specific operating system (if any) on which the executable work runs, or
 a compiler used to produce the work, or an object code interpreter used to
 run it.

The “Corresponding Source” for a work in object code form means all the
 source code needed to generate, install, and (for an executable work) run
 the object code and to modify the work, including scripts to control those
 activities. However, it does not include the work's System Libraries, or
 general-purpose tools or generally available free programs which are used
 unmodified in performing those activities but which are not part of the
 work. For example, Corresponding Source includes interface definition files
 associated with source files for the work, and the source code for shared
 libraries and dynamically linked subprograms that the work is specifically
 designed to require, such as by intimate data communication or control flow
 between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate
 automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.
2. Basic Permissions.

All rights granted under this License are granted for the term of copyright
 on the Program, and are irrevocable provided the stated conditions are
 met. This License explicitly affirms your unlimited permission to run
 the unmodified Program. The output from running a covered work is covered
 by this License only if the output, given its content, constitutes a
 covered work. This License acknowledges your rights of fair use or other
 equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey,
 without conditions so long as your license otherwise remains in force.
 You may convey covered works to others for the sole purpose of having them
 make modifications exclusively for you, or provide you with facilities
 for running those works, provided that you comply with the terms of
 this License in conveying all material for which you do not control
 copyright. Those thus making or running the covered works for you must do
 so exclusively on your behalf, under your direction and control, on terms
 that prohibit them from making any copies of your copyrighted material
 outside their relationship with you.
```

```
Conveying under any other circumstances is permitted solely under the
 conditions stated below. Sublicensing is not allowed; section 10 makes it
 unnecessary.
3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure
 under any applicable law fulfilling obligations under article 11 of
 the WIPO copyright treaty adopted on 20 December 1996, or similar laws
 prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid
 circumvention of technological measures to the extent such circumvention
 is effected by exercising rights under this License with respect to
 the covered work, and you disclaim any intention to limit operation or
 modification of the work as a means of enforcing, against the work's
 users, your or third parties' legal rights to forbid circumvention of
 technological measures.
4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive
 it, in any medium, provided that you conspicuously and appropriately
 publish on each copy an appropriate copyright notice; keep intact all
 notices stating that this License and any non-permissive terms added in
 accord with section 7 apply to the code; keep intact all notices of the
 absence of any warranty; and give all recipients a copy of this License
 along with the Program.

You may charge any price or no price for each copy that you convey, and you
 may offer support or warranty protection for a fee.
5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce
 it from the Program, in the form of source code under the terms of section
 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified it,
 and giving a relevant date.
    b) The work must carry prominent notices stating that it is released
 under this License and any conditions added under section 7. This
 requirement modifies the requirement in section 4 to "keep intact all
 notices".
    c) You must license the entire work, as a whole, under this License to
 anyone who comes into possession of a copy. This License will therefore
 apply, along with any applicable section 7 additional terms, to the whole
 of the work, and all its parts, regardless of how they are packaged. This
 License gives no permission to license the work in any other way, but it
 does not invalidate such permission if you have separately received it.
    d) If the work has interactive user interfaces, each must display
 Appropriate Legal Notices; however, if the Program has interactive
 interfaces that do not display Appropriate Legal Notices, your work need
 not make them do so.

A compilation of a covered work with other separate and independent works,
 which are not by their nature extensions of the covered work, and which
 are not combined with it such as to form a larger program, in or on a
 volume of a storage or distribution medium, is called an "aggregate" if the
 compilation and its resulting copyright are not used to limit the access
 or legal rights of the compilation's users beyond what the individual works
 permit. Inclusion of a covered work in an aggregate does not cause this
 License to apply to the other parts of the aggregate.
6. Conveying Non-Source Forms.
```

```
You may convey a covered work in object code form under the terms of
 sections 4 and 5, provided that you also convey the machine-readable
 Corresponding Source under the terms of this License, in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
 (including a physical distribution medium), accompanied by the
 Corresponding Source fixed on a durable physical medium customarily used
 for software interchange.
    b) Convey the object code in, or embodied in, a physical product
 (including a physical distribution medium), accompanied by a written
 offer, valid for at least three years and valid for as long as you offer
 spare parts or customer support for that product model, to give anyone who
 possesses the object code either (1) a copy of the Corresponding Source
 for all the software in the product that is covered by this License, on
 a durable physical medium customarily used for software interchange, for
 a price no more than your reasonable cost of physically performing this
 conveying of source, or (2) access to copy the Corresponding Source from a
 network server at no charge.
    c) Convey individual copies of the object code with a copy of the
 written offer to provide the Corresponding Source. This alternative is
 allowed only occasionally and noncommercially, and only if you received the
 object code with such an offer, in accord with subsection 6b.
    d) Convey the object code by offering access from a designated place
 (gratis or for a charge), and offer equivalent access to the Corresponding
 Source in the same way through the same place at no further charge. You
 need not require recipients to copy the Corresponding Source along with
 the object code. If the place to copy the object code is a network server,
 the Corresponding Source may be on a different server (operated by you or
 a third party) that supports equivalent copying facilities, provided you
 maintain clear directions next to the object code saying where to find the
 Corresponding Source. Regardless of what server hosts the Corresponding
 Source, you remain obligated to ensure that it is available for as long as
 needed to satisfy these requirements.
    e) Convey the object code using peer-to-peer transmission, provided you
 inform other peers where the object code and Corresponding Source of the
 work are being offered to the general public at no charge under subsection
 6d.

A separable portion of the object code, whose source code is excluded from
 the Corresponding Source as a System Library, need not be included in
 conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
 tangible personal property which is normally used for personal, family,
 or household purposes, or (2) anything designed or sold for incorporation
 into a dwelling. In determining whether a product is a consumer product,
 doubtful cases shall be resolved in favor of coverage. For a particular
 product received by a particular user, "normally used" refers to a typical
 or common use of that class of product, regardless of the status of the
 particular user or of the way in which the particular user actually uses,
 or expects or is expected to use, the product. A product is a consumer
 product regardless of whether the product has substantial commercial,
 industrial or non-consumer uses, unless such uses represent the only
 significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures,
 authorization keys, or other information required to install and execute
 modified versions of a covered work in that User Product from a modified
 version of its Corresponding Source. The information must suffice to ensure
 that the continued functioning of the modified object code is in no case
 prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or
 specifically for use in, a User Product, and the conveying occurs as part
```

```
 of a transaction in which the right of possession and use of the User
 Product is transferred to the recipient in perpetuity or for a fixed term
 (regardless of how the transaction is characterized), the Corresponding
 Source conveyed under this section must be accompanied by the Installation
 Information. But this requirement does not apply if neither you nor any
 third party retains the ability to install modified object code on the User
 Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a
 requirement to continue to provide support service, warranty, or updates
 for a work that has been modified or installed by the recipient, or for
 the User Product in which it has been modified or installed. Access to a
 network may be denied when the modification itself materially and adversely
 affects the operation of the network or violates the rules and protocols
 for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in
 accord with this section must be in a format that is publicly documented
 (and with an implementation available to the public in source code form),
 and must require no special password or key for unpacking, reading or
 copying.
7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License
 by making exceptions from one or more of its conditions. Additional
 permissions that are applicable to the entire Program shall be treated
 as though they were included in this License, to the extent that they are
 valid under applicable law. If additional permissions apply only to part of
 the Program, that part may be used separately under those permissions, but
 the entire Program remains governed by this License without regard to the
 additional permissions.

When you convey a copy of a covered work, you may at your option remove any
 additional permissions from that copy, or from any part of it. (Additional
 permissions may be written to require their own removal in certain
 cases when you modify the work.) You may place additional permissions on
 material, added by you to a covered work, for which you have or can give
 appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add
 to a covered work, you may (if authorized by the copyright holders of that
 material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the terms
 of sections 15 and 16 of this License; or
    b) Requiring preservation of specified reasonable legal notices or
 author attributions in that material or in the Appropriate Legal Notices
 displayed by works containing it; or
    c) Prohibiting misrepresentation of the origin of that material, or
 requiring that modified versions of such material be marked in reasonable
 ways as different from the original version; or
    d) Limiting the use for publicity purposes of names of licensors or
 authors of the material; or
    e) Declining to grant rights under trademark law for use of some trade
 names, trademarks, or service marks; or
    f) Requiring indemnification of licensors and authors of that material
 by anyone who conveys the material (or modified versions of it) with
 contractual assumptions of liability to the recipient, for any liability
 that these contractual assumptions directly impose on those licensors and
 authors.

All other non-permissive additional terms are considered "further
 restrictions" within the meaning of section 10. If the Program as you
 received it, or any part of it, contains a notice stating that it is
```

```
 governed by this License along with a term that is a further restriction,
 you may remove that term. If a license document contains a further
 restriction but permits relicensing or conveying under this License, you
 may add to a covered work material governed by the terms of that license
 document, provided that the further restriction does not survive such
 relicensing or conveying.

If you add terms to a covered work in accord with this section, you must
 place, in the relevant source files, a statement of the additional terms
 that apply to those files, or a notice indicating where to find the
 applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
 form of a separately written license, or stated as exceptions; the above
 requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided
 under this License. Any attempt otherwise to propagate or modify it is
 void, and will automatically terminate your rights under this License
 (including any patent licenses granted under the third paragraph of section
 11).

However, if you cease all violation of this License, then your license from
 a particular copyright holder is reinstated (a) provisionally, unless and
 until the copyright holder explicitly and finally terminates your license,
 and (b) permanently, if the copyright holder fails to notify you of the
 violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated
 permanently if the copyright holder notifies you of the violation by
 some reasonable means, this is the first time you have received notice of
 violation of this License (for any work) from that copyright holder, and
 you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the
 licenses of parties who have received copies or rights from you under
 this License. If your rights have been terminated and not permanently
 reinstated, you do not qualify to receive new licenses for the same
 material under section 10.
9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a
 copy of the Program. Ancillary propagation of a covered work occurring
 solely as a consequence of using peer-to-peer transmission to receive a
 copy likewise does not require acceptance. However, nothing other than
 this License grants you permission to propagate or modify any covered
 work. These actions infringe copyright if you do not accept this License.
 Therefore, by modifying or propagating a covered work, you indicate your
 acceptance of this License to do so.
10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives
 a license from the original licensors, to run, modify and propagate that
 work, subject to this License. You are not responsible for enforcing
 compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an
 organization, or substantially all assets of one, or subdividing an
 organization, or merging organizations. If propagation of a covered work
 results from an entity transaction, each party to that transaction who
 receives a copy of the work also receives whatever licenses to the work
 the party's predecessor in interest had or could give under the previous
 paragraph, plus a right to possession of the Corresponding Source of the
```

```
 work from the predecessor in interest, if the predecessor has it or can get
 it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights
 granted or affirmed under this License. For example, you may not impose a
 license fee, royalty, or other charge for exercise of rights granted under
 this License, and you may not initiate litigation (including a cross-claim
 or counterclaim in a lawsuit) alleging that any patent claim is infringed
 by making, using, selling, offering for sale, or importing the Program or
 any portion of it.
11. Patents.

A “contributor” is a copyright holder who authorizes use under this License
 of the Program or a work on which the Program is based. The work thus
 licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned
 or controlled by the contributor, whether already acquired or hereafter
 acquired, that would be infringed by some manner, permitted by this
 License, of making, using, or selling its contributor version, but do not
 include claims that would be infringed only as a consequence of further
 modification of the contributor version. For purposes of this definition,
 “control” includes the right to grant patent sublicenses in a manner
 consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent
 license under the contributor's essential patent claims, to make, use,
 sell, offer for sale, import and otherwise run, modify and propagate the
 contents of its contributor version.

In the following three paragraphs, a “patent license” is any express
 agreement or commitment, however denominated, not to enforce a patent (such
 as an express permission to practice a patent or covenant not to sue for
 patent infringement). To “grant” such a patent license to a party means to
 make such an agreement or commitment not to enforce a patent against the
 party.

If you convey a covered work, knowingly relying on a patent license, and the
 Corresponding Source of the work is not available for anyone to copy, free
 of charge and under the terms of this License, through a publicly available
 network server or other readily accessible means, then you must either
 (1) cause the Corresponding Source to be so available, or (2) arrange to
 deprive yourself of the benefit of the patent license for this particular
 work, or (3) arrange, in a manner consistent with the requirements of this
 License, to extend the patent license to downstream recipients. “Knowingly
 relying” means you have actual knowledge that, but for the patent license,
 your conveying the covered work in a country, or your recipient's use of
 the covered work in a country, would infringe one or more identifiable
 patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement,
 you convey, or propagate by procuring conveyance of, a covered work, and
 grant a patent license to some of the parties receiving the covered work
 authorizing them to use, propagate, modify or convey a specific copy of the
 covered work, then the patent license you grant is automatically extended
 to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope
 of its coverage, prohibits the exercise of, or is conditioned on the non-
exercise of one or more of the rights that are specifically granted under
 this License. You may not convey a covered work if you are a party to an
 arrangement with a third party that is in the business of distributing
 software, under which you make payment to the third party based on the
 extent of your activity of conveying the work, and under which the third
```

```
 party grants, to any of the parties who would receive the covered work from
 you, a discriminatory patent license (a) in connection with copies of the
 covered work conveyed by you (or copies made from those copies), or (b)
 primarily for and in connection with specific products or compilations that
 contain the covered work, unless you entered into that arrangement, or that
 patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any
 implied license or other defenses to infringement that may otherwise be
 available to you under applicable patent law.
12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot convey a
 covered work so as to satisfy simultaneously your obligations under this
 License and any other pertinent obligations, then as a consequence you may
 not convey it at all. For example, if you agree to terms that obligate you
 to collect a royalty for further conveying from those to whom you convey
 the Program, the only way you could satisfy both those terms and this
 License would be to refrain entirely from conveying the Program.
13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to
 link or combine any covered work with a work licensed under version 3 of
 the GNU Affero General Public License into a single combined work, and to
 convey the resulting work. The terms of this License will continue to apply
 to the part which is the covered work, but the special requirements of
 the GNU Affero General Public License, section 13, concerning interaction
 through a network will apply to the combination as such.
14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
 the GNU General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Program
 specifies that a certain numbered version of the GNU General Public License
 "or any later version" applies to it, you have the option of following
 the terms and conditions either of that numbered version or of any later
 version published by the Free Software Foundation. If the Program does not
 specify a version number of the GNU General Public License, you may choose
 any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of
 the GNU General Public License can be used, that proxy's public statement
 of acceptance of a version permanently authorizes you to choose that
 version for the Program.

Later license versions may give you additional or different permissions.
 However, no additional obligations are imposed on any author or copyright
 holder as a result of your choosing to follow a later version.
15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE
 LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
 OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
 EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
 ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.
 SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY
 SERVICING, REPAIR OR CORRECTION.
16. Limitation of Liability.
```

```
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
 ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE
 PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
 GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
 USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
 DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
 PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
 EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
 SUCH DAMAGES.
17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above
 cannot be given local legal effect according to their terms, reviewing
 courts shall apply local law that most closely approximates an absolute
 waiver of all civil liability in connection with the Program, unless a
 warranty or assumption of liability accompanies a copy of the Program in
 return for a fee.

END OF TERMS AND CONDITIONS

==============================================================

MPL 1.1

Mozilla Public License Version 1.1
1. Definitions.

1.0.1. "Commercial Use"
    means distribution or otherwise making the Covered Code available to a
 third party.
1.1. "Contributor"
    means each entity that creates or contributes to the creation of
 Modifications.
1.2. "Contributor Version"
    means the combination of the Original Code, prior Modifications used by
 a Contributor, and the Modifications made by that particular Contributor.
1.3. "Covered Code"
    means the Original Code or Modifications or the combination of the
 Original Code and Modifications, in each case including portions thereof.
1.4. "Electronic Distribution Mechanism"
    means a mechanism generally accepted in the software development
 community for the electronic transfer of data.
1.5. "Executable"
    means Covered Code in any form other than Source Code.
1.6. "Initial Developer"
    means the individual or entity identified as the Initial Developer in
 the Source Code notice required by Exhibit A.
1.7. "Larger Work"
    means a work which combines Covered Code or portions thereof with code
 not governed by the terms of this License.
1.8. "License"
    means this document.
1.8.1. "Licensable"
    means having the right to grant, to the maximum extent possible, whether
 at the time of the initial grant or subsequently acquired, any and all of
 the rights conveyed herein.
1.9. "Modifications"

    means any addition to or deletion from the substance or structure of
 either the Original Code or any previous Modifications. When Covered Code
 is released as a series of files, a Modification is:
```

```
        Any addition to or deletion from the contents of a file containing
 Original Code or previous Modifications.
        Any new file that contains any part of the Original Code or previous
 Modifications.

1.10. "Original Code"
    means Source Code of computer software code which is described in the
 Source Code notice required by Exhibit A as Original Code, and which, at
 the time of its release under this License is not already Covered Code
 governed by this License.
1.10.1. "Patent Claims"
    means any patent claim(s), now owned or hereafter acquired, including
 without limitation, method, process, and apparatus claims, in any patent
 Licensable by grantor.
1.11. "Source Code"
    means the preferred form of the Covered Code for making modifications
 to it, including all modules it contains, plus any associated interface
 definition files, scripts used to control compilation and installation
 of an Executable, or source code differential comparisons against either
 the Original Code or another well known, available Covered Code of the
 Contributor's choice. The Source Code can be in a compressed or archival
 form, provided the appropriate decompression or de-archiving software is
 widely available for no charge.
1.12. "You" (or "Your")
    means an individual or a legal entity exercising rights under, and
 complying with all of the terms of, this License or a future version of
 this License issued under Section 6.1. For legal entities, "You" includes
 any entity which controls, is controlled by, or is under common control
 with You. For purposes of this definition, "control" means (a) the power,
 direct or indirect, to cause the direction or management of such entity,
 whether by contract or otherwise, or (b) ownership of more than fifty
 percent (50%) of the outstanding shares or beneficial ownership of such
 entity.

2. Source Code License.
2.1. The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive license, subject to third party intellectual property claims:

    under intellectual property rights (other than patent or trademark)
 Licensable by Initial Developer to use, reproduce, modify, display,
 perform, sublicense and distribute the Original Code (or portions thereof)
 with or without Modifications, and/or as part of a Larger Work; and
    under Patents Claims infringed by the making, using or selling of
 Original Code, to make, have made, use, practice, sell, and offer for sale,
 and/or otherwise dispose of the Original Code (or portions thereof).
    the licenses granted in this Section 2.1 (a) and (b) are effective on
 the date Initial Developer first distributes Original Code under the terms
 of this License.
    Notwithstanding Section 2.1 (b) above, no patent license is granted:
 1) for code that You delete from the Original Code; 2) separate from the
 Original Code; or 3) for infringements caused by: i) the modification of
 the Original Code or ii) the combination of the Original Code with other
 software or devices.

2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby
 grants You a world-wide, royalty-free, non-exclusive license

    under intellectual property rights (other than patent or trademark)
 Licensable by Contributor, to use, reproduce, modify, display, perform,
 sublicense and distribute the Modifications created by such Contributor (or
```

```
 portions thereof) either on an unmodified basis, with other Modifications,
 as Covered Code and/or as part of a Larger Work; and
    under Patent Claims infringed by the making, using, or selling of
 Modifications made by that Contributor either alone and/or in combination
 with its Contributor Version (or portions of such combination), to make,
 use, sell, offer for sale, have made, and/or otherwise dispose of: 1)
 Modifications made by that Contributor (or portions thereof); and 2) the
 combination of Modifications made by that Contributor with its Contributor
 Version (or portions of such combination).
    the licenses granted in Sections 2.2 (a) and 2.2 (b) are effective on
 the date Contributor first makes Commercial Use of the Covered Code.
    Notwithstanding Section 2.2 (b) above, no patent license is granted: 1)
 for any code that Contributor has deleted from the Contributor Version; 2)
 separate from the Contributor Version; 3) for infringements caused by: i)
 third party modifications of Contributor Version or ii) the combination of
 Modifications made by that Contributor with other software (except as part
 of the Contributor Version) or other devices; or 4) under Patent Claims
 infringed by Covered Code in the absence of Modifications made by that
 Contributor.

3. Distribution Obligations.
3.1. Application of License.

The Modifications which You create or to which You contribute are governed
 by the terms of this License, including without limitation Section 2.2.
 The Source Code version of Covered Code may be distributed only under the
 terms of this License or a future version of this License released under
 Section 6.1, and You must include a copy of this License with every copy
 of the Source Code You distribute. You may not offer or impose any terms on
 any Source Code version that alters or restricts the applicable version of
 this License or the recipients' rights hereunder. However, You may include
 an additional document offering the additional rights described in Section
 3.5.
3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made
 available in Source Code form under the terms of this License either on
 the same media as an Executable version or via an accepted Electronic
 Distribution Mechanism to anyone to whom you made an Executable version
 available; and if made available via Electronic Distribution Mechanism,
 must remain available for at least twelve (12) months after the date it
 initially became available, or at least six (6) months after a subsequent
 version of that particular Modification has been made available to such
 recipients. You are responsible for ensuring that the Source Code version
 remains available even if the Electronic Distribution Mechanism is
 maintained by a third party.
3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file
 documenting the changes You made to create that Covered Code and the date
 of any change. You must include a prominent statement that the Modification
 is derived, directly or indirectly, from Original Code provided by the
 Initial Developer and including the name of the Initial Developer in (a)
 the Source Code, and (b) in any notice in an Executable version or related
 documentation in which You describe the origin or ownership of the Covered
 Code.
3.4. Intellectual Property Matters
(a) Third Party Claims

If Contributor has knowledge that a license under a third party's
 intellectual property rights is required to exercise the rights granted
 by such Contributor under Sections 2.1 or 2.2, Contributor must include a
 text file with the Source Code distribution titled "LEGAL" which describes
 the claim and the party making the claim in sufficient detail that a
```

```
 recipient will know whom to contact. If Contributor obtains such knowledge
 after the Modification is made available as described in Section 3.2,
 Contributor shall promptly modify the LEGAL file in all copies Contributor
 makes available thereafter and shall take other steps (such as notifying
 appropriate mailing lists or newsgroups) reasonably calculated to inform
 those who received the Covered Code that new knowledge has been obtained.
(b) Contributor APIs

If Contributor's Modifications include an application programming interface
 and Contributor has knowledge of patent licenses which are reasonably
 necessary to implement that API, Contributor must also include this
 information in the legal file.
(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4
 (a) above, Contributor believes that Contributor's Modifications are
 Contributor's original creation(s) and/or Contributor has sufficient rights
 to grant the rights conveyed by this License.
3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code.
 If it is not possible to put such notice in a particular Source Code file
 due to its structure, then You must include such notice in a location (such
 as a relevant directory) where a user would be likely to look for such a
 notice. If You created one or more Modification(s) You may add your name as
 a Contributor to the notice described in Exhibit A. You must also duplicate
 this License in any documentation for the Source Code where You describe
 recipients' rights or ownership rights relating to Covered Code. You may
 choose to offer, and to charge a fee for, warranty, support, indemnity or
 liability obligations to one or more recipients of Covered Code. However,
 You may do so only on Your own behalf, and not on behalf of the Initial
 Developer or any Contributor. You must make it absolutely clear than any
 such warranty, support, indemnity or liability obligation is offered by You
 alone, and You hereby agree to indemnify the Initial Developer and every
 Contributor for any liability incurred by the Initial Developer or such
 Contributor as a result of warranty, support, indemnity or liability terms
 You offer.
3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements
 of Sections 3.1, 3.2, 3.3, 3.4 and 3.5 have been met for that Covered
 Code, and if You include a notice stating that the Source Code version of
 the Covered Code is available under the terms of this License, including
 a description of how and where You have fulfilled the obligations of
 Section 3.2. The notice must be conspicuously included in any notice
 in an Executable version, related documentation or collateral in which
 You describe recipients' rights relating to the Covered Code. You may
 distribute the Executable version of Covered Code or ownership rights
 under a license of Your choice, which may contain terms different from
 this License, provided that You are in compliance with the terms of this
 License and that the license for the Executable version does not attempt to
 limit or alter the recipient's rights in the Source Code version from the
 rights set forth in this License. If You distribute the Executable version
 under a different license You must make it absolutely clear that any terms
 which differ from this License are offered by You alone, not by the Initial
 Developer or any Contributor. You hereby agree to indemnify the Initial
 Developer and every Contributor for any liability incurred by the Initial
 Developer or such Contributor as a result of any such terms You offer.
3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not
 governed by the terms of this License and distribute the Larger Work as a
 single product. In such a case, You must make sure the requirements of this
 License are fulfilled for the Covered Code.
```

```
4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this
 License with respect to some or all of the Covered Code due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be included
 in the legal file described in Section 3.4 and must be included with
 all distributions of the Source Code. Except to the extent prohibited by
 statute or regulation, such description must be sufficiently detailed for a
 recipient of ordinary skill to be able to understand it.
5. Application of this License.

This License applies to code to which the Initial Developer has attached the
 notice in Exhibit A and to related Covered Code.
6. Versions of the License.
6.1. New Versions

Netscape Communications Corporation ("Netscape") may publish revised and/or
 new versions of the License from time to time. Each version will be given a
 distinguishing version number.
6.2. Effect of New Versions

Once Covered Code has been published under a particular version of the
 License, You may always continue to use it under the terms of that version.
 You may also choose to use such Covered Code under the terms of any
 subsequent version of the License published by Netscape. No one other
 than Netscape has the right to modify the terms applicable to Covered Code
 created under this License.
6.3. Derivative Works

If You create or use a modified version of this License (which you may
 only do in order to apply it to code which is not already Covered Code
 governed by this License), You must (a) rename Your license so that the
 phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any
 confusingly similar phrase do not appear in your license (except to note
 that your license differs from this License) and (b) otherwise make it
 clear that Your version of the license contains terms which differ from the
 Mozilla Public License and Netscape Public License. (Filling in the name of
 the Initial Developer, Original Code or Contributor in the notice described
 in Exhibit A shall not of themselves be deemed to be modifications of this
 License.)
7. Disclaimer of warranty

Covered code is provided under this license on an "as is" basis, without
 warranty of any kind, either expressed or implied, including, without
 limitation, warranties that the covered code is free of defects,
 merchantable, fit for a particular purpose or non-infringing. The entire
 risk as to the quality and performance of the covered code is with
 you. Should any covered code prove defective in any respect, you (not
 the initial developer or any other contributor) assume the cost of any
 necessary servicing, repair or correction. This disclaimer of warranty
 constitutes an essential part of this license. No use of any covered code
 is authorized hereunder except under this disclaimer.
8. Termination

8.1. This License and the rights granted hereunder will terminate
 automatically if You fail to comply with terms herein and fail to cure such
 breach within 30 days of becoming aware of the breach. All sublicenses to
 the Covered Code which are properly granted shall survive any termination
 of this License. Provisions which, by their nature, must remain in effect
 beyond the termination of this License shall survive.
```

```
8.2. If You initiate litigation by asserting a patent infringement claim
 (excluding declatory judgment actions) against Initial Developer or a
 Contributor (the Initial Developer or Contributor against whom You file
 such action is referred to as "Participant") alleging that:

    such Participant's Contributor Version directly or indirectly infringes
 any patent, then any and all rights granted by such Participant to You
 under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
 from Participant terminate prospectively, unless if within 60 days after
 receipt of notice You either: (i) agree in writing to pay Participant
 a mutually agreeable reasonable royalty for Your past and future use of
 Modifications made by such Participant, or (ii) withdraw Your litigation
 claim with respect to the Contributor Version against such Participant. If
 within 60 days of notice, a reasonable royalty and payment arrangement are
 not mutually agreed upon in writing by the parties or the litigation claim
 is not withdrawn, the rights granted by Participant to You under Sections
 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day
 notice period specified above.
    any software, hardware, or device, other than such Participant's
 Contributor Version, directly or indirectly infringes any patent, then
 any rights granted to You by such Participant under Sections 2.1(b) and
 2.2(b) are revoked effective as of the date You first made, used, sold,
 distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging
 that such Participant's Contributor Version directly or indirectly
 infringes any patent where such claim is resolved (such as by license or
 settlement) prior to the initiation of patent infringement litigation,
 then the reasonable value of the licenses granted by such Participant under
 Sections 2.1 or 2.2 shall be taken into account in determining the amount
 or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all
 end user license agreements (excluding distributors and resellers) which
 have been validly granted by You or any distributor hereunder prior to
 termination shall survive termination.
9. Limitation of liability

Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall you, the initial developer, any
 other contributor, or any distributor of covered code, or any supplier of
 any of such parties, be liable to any person for any indirect, special,
 incidental, or consequential damages of any character including, without
 limitation, damages for loss of goodwill, work stoppage, computer failure
 or malfunction, or any and all other commercial damages or losses, even
 if such party shall have been informed of the possibility of such damages.
 This limitation of liability shall not apply to liability for death or
 personal injury resulting from such party's negligence to the extent
 applicable law prohibits such limitation. Some jurisdictions do not allow
 the exclusion or limitation of incidental or consequential damages, so this
 exclusion and limitation may not apply to you.
10. U.S. government end users

The Covered Code is a "commercial item," as that term is defined in 48
 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and
 "commercial computer software documentation," as such terms are used in 48
 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R.
 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users
 acquire Covered Code with only those rights set forth herein.
11. Miscellaneous

This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
```

```
 enforceable. This License shall be governed by California law provisions
 (except to the extent applicable law, if any, provides otherwise),
 excluding its conflict-of-law provisions. With respect to disputes in
 which at least one party is a citizen of, or an entity chartered or
 registered to do business in the United States of America, any litigation
 relating to this License shall be subject to the jurisdiction of the
 Federal Courts of the Northern District of California, with venue lying
 in Santa Clara County, California, with the losing party responsible for
 costs, including without limitation, court costs and reasonable attorneys'
 fees and expenses. The application of the United Nations Convention on
 Contracts for the International Sale of Goods is expressly excluded. Any
 law or regulation which provides that the language of a contract shall be
 construed against the drafter shall not apply to this License.
12. Responsibility for claims

As between Initial Developer and the Contributors, each party is responsible
 for claims and damages arising, directly or indirectly, out of its
 utilization of rights under this License and You agree to work with
 Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.
13. Multiple-licensed code

Initial Developer may designate portions of the Covered Code as "Multiple-
Licensed". "Multiple-Licensed" means that the Initial Developer permits you
 to utilize portions of the Covered Code under Your choice of the MPL or
 the alternative licenses, if any, specified by the Initial Developer in the
 file described in Exhibit A.
Exhibit A - Mozilla Public License.

"The contents of this file are subject to the Mozilla Public License
Version 1.1 (the "License"); you may not use this file except in
compliance with the License. You may obtain a copy of the License at
https://www.mozilla.org/MPL/

Software distributed under the License is distributed on an "AS IS"
basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
License for the specific language governing rights and limitations
under the License.

The Original Code is ________________________________________.

The Initial Developer of the Original Code is ________________________.
Portions created by _______________________ are Copyright (C) ______
_________________________. All Rights Reserved.

Contributor(s): ________________________________________.

Alternatively, the contents of this file may be used under the terms
of the _____ license (the  "[___] License"), in which case the
provisions of [______] License are applicable instead of those
above. If you wish to allow use of your version of this file only
under the terms of the [____] License and not to allow others to use
your version of this file under the MPL, indicate your decision by
deleting the provisions above and replace them with the notice and
other provisions required by the [___] License. If you do not delete
the provisions above, a recipient may use your version of this file
under either the MPL or the [___] License."

NOTE: The text of this Exhibit A may differ slightly from the text of the
 notices in the Source Code files of the Original Code. You should use the
 text of this Exhibit A rather than the text found in the Original Code
 Source Code for Your Modifications.
```

```
==========================================================================
```

Provider: Coda Hale / Component(s): DropWizard 1.3.7

```
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2016 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
```

```
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
```

```
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=====================================================================

Compile Dependencies

=====================================================================

Apache 2.0
dropwizard-util 1.2.5
dropwizard-jackson 1.2.5
dropwizard-validation 1.2.5
dropwizard-configuration 1.2.5
dropwizard-logging 1.2.5
dropwizard-metrics 1.2.5
dropwizard-jersey 1.2.5
dropwizard-servlets 1.2.5
```

```
dropwizard-jetty 1.2.5
dropwizard-lifecycle 1.2.5
dropwizard-logging 1.2.5
dropwizard-request-logging 1.2.5
metrics-core 3.2.5
metrics-jvm 3.2.5
metrics-servlets 3.2.5
metrics-healthchecks 3.2.5
metrics-logback 3.2.5
metrics-jetty9 3.2.5
metrics-jersey2 3.2.5
metrics-annotations 3.2.5
jsr305 3.0.2
jsr305 1.3.9
guava 23.1-jre
guava 23.5-jre
joda-time 2.9.9
jackson-annotations 2.9.5
jackson-core  2.9.5
jackson-databind  2.9.5
jackson-datatype-guava  2.9.5
jackson-datatype-jsr310  2.9.5
jackson-datatype-jdk8  2.9.5
jackson-datatype-joda  2.9.5
jackson-dataformat-yaml  2.9.5
jackson-module-afterburner 2.9.5
jackson-module-parameter-names 2.9.5
jackson-jaxrs-json-provider 2.9.5
jackson-jaxrs-base 2.9.5
hibernate-validator 5.4.2Final
classmate 1.3.1
validation-api 1.1.0Final
commons-lang3 3.6
snakeyaml 1.17
javax.inject 1
error_prone_annotations 2.0.18
j2objc-annotations 1.1
profiler 1.0.2



MIT
argparse4j 0.7.0
slf4j-api 1.7.25
slf4j-api 1.7.25
jul-to-slf4j 1.7.25
jcl-over-slf4j 1.7.25
animal-sniffer-annotations 1.14
checker-qual 2.0.0

Apache 2.0 + EPL 1.0
jetty-setuid-java 1.0.3
jetty-server 9.4.8.v20171121
jetty-util 9.4.8.v20171121
jetty-http 9.4.8.v20171121
jetty-io 9.4.8.v20171121
jetty-webapp 9.4.8.v20171121
jetty-continuation 9.4.8.v20171121
jetty-xml 9.4.8.v20171121
jetty-servlet 9.4.8.v20171121
jetty-security 9.4.7.v20170914
jetty-servlets 9.4.8.v20171121
```

```
EPL 1.0 + LGPL 2.1
logback-core 1.2.3
logback-classic 1.2.3
logback-classic 1.1.10
logback-core 1.1.10
logback-access 1.2.3



Apache 2.0 + CC0 1.0 Public
jboss-logging 3.3.0Final



Apache 2.0 + MIT
log4j-over-slf4j 1.7.24
animal-sniffer-annotations 1.14



Apache 2.0 + LGPL 2.1 + MPl 1.1
javassist 3.21.0-GA



==========================================================================================
==========================================================================================

Apache 2.0

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
```

```
   If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

   You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.
```

```
END OF TERMS AND CONDITIONS

================================================================

argparse4j 0.7.0


/*
 * Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
=======================================================

slf4j-api 1.7.24
slf4j-api 1.7.22
jul-to-slf4j 1.7.24
jcl-over-slf4j 1.7.24


Copyright (c) 2004-2017 QOS.ch All rights reserved. Permission is hereby
 granted, free of charge, to any person obtaining a copy of this software
 and associated documentation files (the "Software"), to deal in the
 Software without restriction, including without limitation the rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software
 is furnished to do so, subject to the following conditions: The above
 copyright notice and this permission notice shall be included in all copies
 or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS",
 WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
 TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
 AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
 SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=======================================================


EPL 1.0

 Eclipse Public License, Version 1.0 (EPL-1.0)

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
```

```
1. DEFINITIONS

"Contribution" means:

    a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
    b) in the case of each subsequent Contributor:
    i) changes to the Program, and
    ii) additions to the Program;
    where such changes and/or additions to the Program originate from and
 are distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

    a) Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free copyright license
 to reproduce, prepare derivative works of, publicly display, publicly
 perform, distribute and sublicense the Contribution of such Contributor, if
 any, and such derivative works, in source code and object code form.
    b) Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free patent license
 under Licensed Patents to make, use, sell, offer to sell, import and
 otherwise transfer the Contribution of such Contributor, if any, in
 source code and object code form. This patent license shall apply to
 the combination of the Contribution and the Program if, at the time the
 Contribution is added by the Contributor, such addition of the Contribution
 causes such combination to be covered by the Licensed Patents. The patent
 license shall not apply to any other combinations which include the
 Contribution. No hardware per se is licensed hereunder.
    c) Recipient understands that although each Contributor grants the
 licenses to its Contributions set forth herein, no assurances are provided
 by any Contributor that the Program does not infringe the patent or
 other intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
    d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS
```

```
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

    a) it complies with the terms and conditions of this Agreement; and
    b) its license agreement:
    i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
    ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
    iii) states that any provisions which differ from this Agreement are
 offered by that Contributor alone and not by any other party; and
    iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

    a) it must be made available under this Agreement; and
    b) a copy of this Agreement must be included with each copy of the
 Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
```

```
5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
```

```
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.


============================================================

CDDL 1.0

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE Version 1.0 (CDDL-1.0) (text)

    1. Definitions.

        1.1. Contributor means each individual or entity that creates or
 contributes to the creation of Modifications.

        1.2. Contributor Version means the combination of the Original
 Software, prior Modifications used by a Contributor (if any), and the
 Modifications made by that particular Contributor.

        1.3. Covered Software means (a) the Original Software, or (b)
 Modifications, or (c) the combination of files containing Original Software
 with files containing Modifications, in each case including portions
 thereof.

        1.4. Executable means the Covered Software in any form other than
 Source Code.

        1.5. Initial Developer means the individual or entity that first
 makes Original Software available under this License.

        1.6. Larger Work means a work which combines Covered Software or
 portions thereof with code not governed by the terms of this License.

        1.7. License means this document.

        1.8. Licensable means having the right to grant, to the maximum
 extent possible, whether at the time of the initial grant or subsequently
 acquired, any and all of the rights conveyed herein.

        1.9. Modifications means the Source Code and Executable form of any
 of the following:

            A. Any file that results from an addition to, deletion from
 or modification of the contents of a file containing Original Software or
 previous Modifications;

            B. Any new file that contains any part of the Original Software
 or previous Modification; or

            C. Any new file that is contributed or otherwise made available
 under the terms of this License.

        1.10. Original Software means the Source Code and Executable form of
 computer software code that is originally released under this License.

        1.11. Patent Claims means any patent claim(s), now owned or
 hereafter acquired, including without limitation, method, process, and
 apparatus claims, in any patent Licensable by grantor.
```

```
       1.12. Source Code means (a) the common form of computer software
code in which modifications are made and (b) associated documentation
included in or with such code.

       1.13. You (or Your) means an individual or a legal entity exercising
rights under, and complying with all of the terms of, this License. For
legal entities, You includes any entity which controls, is controlled
by, or is under common control with You. For purposes of this definition,
control means (a) the power, direct or indirect, to cause the direction
or management of such entity, whether by contract or otherwise, or (b)
ownership of more than fifty percent (50%) of the outstanding shares or
beneficial ownership of such entity.

   2. License Grants.

       2.1. The Initial Developer Grant.

       Conditioned upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, the Initial Developer hereby
grants You a world-wide, royalty-free, non-exclusive license:

           (a) under intellectual property rights (other than patent or
trademark) Licensable by Initial Developer, to use, reproduce, modify,
display, perform, sublicense and distribute the Original Software (or
portions thereof), with or without Modifications, and/or as part of a
Larger Work; and

           (b) under Patent Claims infringed by the making, using or
selling of Original Software, to make, have made, use, practice, sell,
and offer for sale, and/or otherwise dispose of the Original Software (or
portions thereof).

           (c) The licenses granted in Sections 2.1(a) and (b) are
effective on the date Initial Developer first distributes or otherwise
makes the Original Software available to a third party under the terms of
this License.

           (d) Notwithstanding Section 2.1(b) above, no patent license is
granted: (1) for code that You delete from the Original Software, or (2)
for infringements caused by: (i) the modification of the Original Software,
or (ii) the combination of the Original Software with other software or
devices.

       2.2. Contributor Grant.

       Conditioned upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, each Contributor hereby grants
You a world-wide, royalty-free, non-exclusive license:

           (a) under intellectual property rights (other than patent or
trademark) Licensable by Contributor to use, reproduce, modify, display,
perform, sublicense and distribute the Modifications created by such
Contributor (or portions thereof), either on an unmodified basis, with
other Modifications, as Covered Software and/or as part of a Larger Work;
and

           (b) under Patent Claims infringed by the making, using, or
selling of Modifications made by that Contributor either alone and/or in
combination with its Contributor Version (or portions of such combination),
to make, use, sell, offer for sale, have made, and/or otherwise dispose
of: (1) Modifications made by that Contributor (or portions thereof); and
(2) the combination of Modifications made by that Contributor with its
Contributor Version (or portions of such combination).
```

```
           (c) The licenses granted in Sections 2.2(a) and 2.2(b) are
effective on the date Contributor first distributes or otherwise makes the
Modifications available to a third party.

           (d) Notwithstanding Section 2.2(b) above, no patent license is
granted: (1) for any code that Contributor has deleted from the Contributor
Version; (2) for infringements caused by: (i) third party modifications of
Contributor Version, or (ii) the combination of Modifications made by that
Contributor with other software (except as part of the Contributor Version)
or other devices; or (3) under Patent Claims infringed by Covered Software
in the absence of Modifications made by that Contributor.

   3. Distribution Obligations.

       3.1. Availability of Source Code.

       Any Covered Software that You distribute or otherwise make available
in Executable form must also be made available in Source Code form and that
Source Code form must be distributed only under the terms of this License.
You must include a copy of this License with every copy of the Source Code
form of the Covered Software You distribute or otherwise make available.
You must inform recipients of any such Covered Software in Executable form
as to how they can obtain such Covered Software in Source Code form in
a reasonable manner on or through a medium customarily used for software
exchange.

       3.2. Modifications.

       The Modifications that You create or to which You contribute are
governed by the terms of this License. You represent that You believe Your
Modifications are Your original creation(s) and/or You have sufficient
rights to grant the rights conveyed by this License.

       3.3. Required Notices.

       You must include a notice in each of Your Modifications that
identifies You as the Contributor of the Modification. You may not remove
or alter any copyright, patent or trademark notices contained within the
Covered Software, or any notices of licensing or any descriptive text
giving attribution to any Contributor or the Initial Developer.

       3.4. Application of Additional Terms.

       You may not offer or impose any terms on any Covered Software in
Source Code form that alters or restricts the applicable version of this
License or the recipients rights hereunder. You may choose to offer, and
to charge a fee for, warranty, support, indemnity or liability obligations
to one or more recipients of Covered Software. However, you may do so
only on Your own behalf, and not on behalf of the Initial Developer or
any Contributor. You must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by You alone, and You
hereby agree to indemnify the Initial Developer and every Contributor for
any liability incurred by the Initial Developer or such Contributor as a
result of warranty, support, indemnity or liability terms You offer.

       3.5. Distribution of Executable Versions.

       You may distribute the Executable form of the Covered Software under
the terms of this License or under the terms of a license of Your choice,
which may contain terms different from this License, provided that You are
in compliance with the terms of this License and that the license for the
Executable form does not attempt to limit or alter the recipients rights
in the Source Code form from the rights set forth in this License. If
```

```
You distribute the Covered Software in Executable form under a different
license, You must make it absolutely clear that any terms which differ
from this License are offered by You alone, not by the Initial Developer or
Contributor. You hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial Developer or such
Contributor as a result of any such terms You offer.

       3.6. Larger Works.

       You may create a Larger Work by combining Covered Software with
other code not governed by the terms of this License and distribute the
Larger Work as a single product. In such a case, You must make sure the
requirements of this License are fulfilled for the Covered Software.

   4. Versions of the License.

       4.1. New Versions.

       Sun Microsystems, Inc. is the initial license steward and may
publish revised and/or new versions of this License from time to time. Each
version will be given a distinguishing version number. Except as provided
in Section 4.3, no one other than the license steward has the right to
modify this License.

       4.2. Effect of New Versions.

       You may always continue to use, distribute or otherwise make the
Covered Software available under the terms of the version of the License
under which You originally received the Covered Software. If the Initial
Developer includes a notice in the Original Software prohibiting it from
being distributed or otherwise made available under any subsequent version
of the License, You must distribute and make the Covered Software available
under the terms of the version of the License under which You originally
received the Covered Software. Otherwise, You may also choose to use,
distribute or otherwise make the Covered Software available under the terms
of any subsequent version of the License published by the license steward.

       4.3. Modified Versions.

       When You are an Initial Developer and You want to create a new
license for Your Original Software, You may create and use a modified
version of this License if You: (a) rename the license and remove any
references to the name of the license steward (except to note that the
license differs from this License); and (b) otherwise make it clear that
the license contains terms which differ from this License.

   5. DISCLAIMER OF WARRANTY.

   COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS,
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF
DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS
WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU
(NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF
ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED
SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

   6. TERMINATION.

       6.1. This License and the rights granted hereunder will terminate
automatically if You fail to comply with terms herein and fail to cure such
breach within 30 days of becoming aware of the breach. Provisions which, by
```

their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTYS NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in

```
 the jurisdiction and venue specified in a notice contained within the
 Original Software, with the losing party responsible for costs, including,
 without limitation, court costs and reasonable attorneys fees and expenses.
 The application of the United Nations Convention on Contracts for the
 International Sale of Goods is expressly excluded. Any law or regulation
 which provides that the language of a contract shall be construed against
 the drafter shall not apply to this License. You agree that You alone are
 responsible for compliance with the United States export administration
 regulations (and the export control laws and regulation of any other
 countries) when You use, distribute or otherwise make available any Covered
 Software.

    10. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
 responsible for claims and damages arising, directly or indirectly, out
 of its utilization of rights under this License and You agree to work
 with Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.

============================================================

CDDL 1.1

1. Definitions.

  1.1. "Contributor" means each individual or entity that creates or
  contributes to the creation of Modifications.

  1.2. "Contributor Version" means the combination of the Original
  Software, prior Modifications used by a Contributor (if any), and
  the Modifications made by that particular Contributor.

  1.3. "Covered Software" means (a) the Original Software, or (b)
  Modifications, or (c) the combination of files containing Original
  Software with files containing Modifications, in each case including
  portions thereof.

  1.4. "Executable" means the Covered Software in any form other than
  Source Code.

  1.5. "Initial Developer" means the individual or entity that first
  makes Original Software available under this License.

  1.6. "Larger Work" means a work which combines Covered Software or
  portions thereof with code not governed by the terms of this License.

  1.7. "License" means this document.

  1.8. "Licensable" means having the right to grant, to the maximum
  extent possible, whether at the time of the initial grant or
  subsequently acquired, any and all of the rights conveyed herein.

  1.9. "Modifications" means the Source Code and Executable form of
  any of the following:

  A. Any file that results from an addition to, deletion from or
  modification of the contents of a file containing Original Software
  or previous Modifications;

  B. Any new file that contains any part of the Original Software or
  previous Modification; or
```

```
  C. Any new file that is contributed or otherwise made available
  under the terms of this License.

  1.10. "Original Software" means the Source Code and Executable form
  of computer software code that is originally released under this
  License.

  1.11. "Patent Claims" means any patent claim(s), now owned or
  hereafter acquired, including without limitation, method, process,
  and apparatus claims, in any patent Licensable by grantor.

  1.12. "Source Code" means (a) the common form of computer software
  code in which modifications are made and (b) associated
  documentation included in or with such code.

  1.13. "You" (or "Your") means an individual or a legal entity
  exercising rights under, and complying with all of the terms of,
  this License. For legal entities, "You" includes any entity which
  controls, is controlled by, or is under common control with You. For
  purposes of this definition, "control" means (a) the power, direct
  or indirect, to cause the direction or management of such entity,
  whether by contract or otherwise, or (b) ownership of more than
  fifty percent (50%) of the outstanding shares or beneficial
  ownership of such entity.

2. License Grants.

  2.1. The Initial Developer Grant.

  Conditioned upon Your compliance with Section 3.1 below and subject
  to third party intellectual property claims, the Initial Developer
  hereby grants You a world-wide, royalty-free, non-exclusive license:

  (a) under intellectual property rights (other than patent or
  trademark) Licensable by Initial Developer, to use, reproduce,
  modify, display, perform, sublicense and distribute the Original
  Software (or portions thereof), with or without Modifications,
  and/or as part of a Larger Work; and

  (b) under Patent Claims infringed by the making, using or selling of
  Original Software, to make, have made, use, practice, sell, and
  offer for sale, and/or otherwise dispose of the Original Software
  (or portions thereof).

  (c) The licenses granted in Sections 2.1(a) and (b) are effective on
  the date Initial Developer first distributes or otherwise makes the
  Original Software available to a third party under the terms of this
  License.

  (d) Notwithstanding Section 2.1(b) above, no patent license is
  granted: (1) for code that You delete from the Original Software, or
  (2) for infringements caused by: (i) the modification of the
  Original Software, or (ii) the combination of the Original Software
  with other software or devices.

  2.2. Contributor Grant.

  Conditioned upon Your compliance with Section 3.1 below and subject
  to third party intellectual property claims, each Contributor hereby
  grants You a world-wide, royalty-free, non-exclusive license:

  (a) under intellectual property rights (other than patent or
  trademark) Licensable by Contributor to use, reproduce, modify,
  display, perform, sublicense and distribute the Modifications
```

```
  created by such Contributor (or portions thereof), either on an
  unmodified basis, with other Modifications, as Covered Software
  and/or as part of a Larger Work; and

  (b) under Patent Claims infringed by the making, using, or selling
  of Modifications made by that Contributor either alone and/or in
  combination with its Contributor Version (or portions of such
  combination), to make, use, sell, offer for sale, have made, and/or
  otherwise dispose of: (1) Modifications made by that Contributor (or
  portions thereof); and (2) the combination of Modifications made by
  that Contributor with its Contributor Version (or portions of such
  combination).

  (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
  on the date Contributor first distributes or otherwise makes the
  Modifications available to a third party.

  (d) Notwithstanding Section 2.2(b) above, no patent license is
  granted: (1) for any code that Contributor has deleted from the
  Contributor Version; (2) for infringements caused by: (i) third
  party modifications of Contributor Version, or (ii) the combination
  of Modifications made by that Contributor with other software
  (except as part of the Contributor Version) or other devices; or (3)
  under Patent Claims infringed by Covered Software in the absence of
  Modifications made by that Contributor.

3. Distribution Obligations.

  3.1. Availability of Source Code.

  Any Covered Software that You distribute or otherwise make available
  in Executable form must also be made available in Source Code form
  and that Source Code form must be distributed only under the terms
  of this License. You must include a copy of this License with every
  copy of the Source Code form of the Covered Software You distribute
  or otherwise make available. You must inform recipients of any such
  Covered Software in Executable form as to how they can obtain such
  Covered Software in Source Code form in a reasonable manner on or
  through a medium customarily used for software exchange.

  3.2. Modifications.

  The Modifications that You create or to which You contribute are
  governed by the terms of this License. You represent that You
  believe Your Modifications are Your original creation(s) and/or You
  have sufficient rights to grant the rights conveyed by this License.

  3.3. Required Notices.

  You must include a notice in each of Your Modifications that
  identifies You as the Contributor of the Modification. You may not
  remove or alter any copyright, patent or trademark notices contained
  within the Covered Software, or any notices of licensing or any
  descriptive text giving attribution to any Contributor or the
  Initial Developer.

  3.4. Application of Additional Terms.

  You may not offer or impose any terms on any Covered Software in
  Source Code form that alters or restricts the applicable version of
  this License or the recipients' rights hereunder. You may choose to
  offer, and to charge a fee for, warranty, support, indemnity or
  liability obligations to one or more recipients of Covered Software.
  However, you may do so only on Your own behalf, and not on behalf of
```

```
  the Initial Developer or any Contributor. You must make it
  absolutely clear that any such warranty, support, indemnity or
  liability obligation is offered by You alone, and You hereby agree
  to indemnify the Initial Developer and every Contributor for any
  liability incurred by the Initial Developer or such Contributor as a
  result of warranty, support, indemnity or liability terms You offer.

  3.5. Distribution of Executable Versions.

  You may distribute the Executable form of the Covered Software under
  the terms of this License or under the terms of a license of Your
  choice, which may contain terms different from this License,
  provided that You are in compliance with the terms of this License
  and that the license for the Executable form does not attempt to
  limit or alter the recipient's rights in the Source Code form from
  the rights set forth in this License. If You distribute the Covered
  Software in Executable form under a different license, You must make
  it absolutely clear that any terms which differ from this License
  are offered by You alone, not by the Initial Developer or
  Contributor. You hereby agree to indemnify the Initial Developer and
  every Contributor for any liability incurred by the Initial
  Developer or such Contributor as a result of any such terms You offer.

  3.6. Larger Works.

  You may create a Larger Work by combining Covered Software with
  other code not governed by the terms of this License and distribute
  the Larger Work as a single product. In such a case, You must make
  sure the requirements of this License are fulfilled for the Covered
  Software.

4. Versions of the License.

  4.1. New Versions.

  Oracle is the initial license steward and may publish revised and/or
  new versions of this License from time to time. Each version will be
  given a distinguishing version number. Except as provided in Section
  4.3, no one other than the license steward has the right to modify
  this License.

  4.2. Effect of New Versions.

  You may always continue to use, distribute or otherwise make the
  Covered Software available under the terms of the version of the
  License under which You originally received the Covered Software. If
  the Initial Developer includes a notice in the Original Software
  prohibiting it from being distributed or otherwise made available
  under any subsequent version of the License, You must distribute and
  make the Covered Software available under the terms of the version
  of the License under which You originally received the Covered
  Software. Otherwise, You may also choose to use, distribute or
  otherwise make the Covered Software available under the terms of any
  subsequent version of the License published by the license steward.

  4.3. Modified Versions.

  When You are an Initial Developer and You want to create a new
  license for Your Original Software, You may create and use a
  modified version of this License if You: (a) rename the license and
  remove any references to the name of the license steward (except to
  note that the license differs from this License); and (b) otherwise
  make it clear that the license contains terms which differ from this
  License.
```

```
5. DISCLAIMER OF WARRANTY.

  COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
  WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
  INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
  IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
  NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
  THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
  DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
  OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
  REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
  ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
  AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

  6.1. This License and the rights granted hereunder will terminate
  automatically if You fail to comply with terms herein and fail to
  cure such breach within 30 days of becoming aware of the breach.
  Provisions which, by their nature, must remain in effect beyond the
  termination of this License shall survive.

  6.2. If You assert a patent infringement claim (excluding
  declaratory judgment actions) against Initial Developer or a
  Contributor (the Initial Developer or Contributor against whom You
  assert such claim is referred to as "Participant") alleging that the
  Participant Software (meaning the Contributor Version where the
  Participant is a Contributor or the Original Software where the
  Participant is the Initial Developer) directly or indirectly
  infringes any patent, then any and all rights granted directly or
  indirectly to You by such Participant, the Initial Developer (if the
  Initial Developer is not the Participant) and all Contributors under
  Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
  from Participant terminate prospectively and automatically at the
  expiration of such 60 day notice period, unless if within such 60
  day period You withdraw Your claim with respect to the Participant
  Software against such Participant either unilaterally or pursuant to
  a written agreement with Participant.

  6.3. If You assert a patent infringement claim against Participant
  alleging that the Participant Software directly or indirectly
  infringes any patent where such claim is resolved (such as by
  license or settlement) prior to the initiation of patent
  infringement litigation, then the reasonable value of the licenses
  granted by such Participant under Sections 2.1 or 2.2 shall be taken
  into account in determining the amount or value of any payment or
  license.

  6.4. In the event of termination under Sections 6.1 or 6.2 above,
  all end user licenses that have been validly granted by You or any
  distributor hereunder prior to termination (excluding licenses
  granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

  UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
  (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
  INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
  COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
  TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
  CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
  LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
  FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
```

```
  LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
  POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
  APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
  PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
  LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
  LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
  AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

  The Covered Software is a "commercial item," as that term is defined
  in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
  software" (as that term is defined at 48 C.F.R. §
  252.227-7014(a)(1)) and "commercial computer software documentation"
  as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
  with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
  (June 1995), all U.S. Government End Users acquire Covered Software
  with only those rights set forth herein. This U.S. Government Rights
  clause is in lieu of, and supersedes, any other FAR, DFAR, or other
  clause or provision that addresses Government rights in computer
  software under this License.

9. MISCELLANEOUS.

  This License represents the complete agreement concerning subject
  matter hereof. If any provision of this License is held to be
  unenforceable, such provision shall be reformed only to the extent
  necessary to make it enforceable. This License shall be governed by
  the law of the jurisdiction specified in a notice contained within
  the Original Software (except to the extent applicable law, if any,
  provides otherwise), excluding such jurisdiction's conflict-of-law
  provisions. Any litigation relating to this License shall be subject
  to the jurisdiction of the courts located in the jurisdiction and
  venue specified in a notice contained within the Original Software,
  with the losing party responsible for costs, including, without
  limitation, court costs and reasonable attorneys' fees and expenses.
  The application of the United Nations Convention on Contracts for
  the International Sale of Goods is expressly excluded. Any law or
  regulation which provides that the language of a contract shall be
  construed against the drafter shall not apply to this License. You
  agree that You alone are responsible for compliance with the United
  States export administration regulations (and the export control
  laws and regulation of any other countries) when You use, distribute
  or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

  As between Initial Developer and the Contributors, each party is
  responsible for claims and damages arising, directly or indirectly,
  out of its utilization of rights under this License and You agree to
  work with Initial Developer and Contributors to distribute such
  responsibility on an equitable basis. Nothing herein is intended or
  shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
 LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.
```

```
================================================================

GPL 2

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
```

```
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.
```

```
In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
```

on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

```
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
```

```
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."

You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.
```

```
As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.

====================================================

LGPL 2.1

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.
```

```
We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
```

```
0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices stating
 that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no charge to
 all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a table
 of data to be supplied by an application program that uses the facility,
 other than as an argument passed when the facility is invoked, then you
 must make a good faith effort to ensure that, in the event an application
 does not supply such function or table, the facility still operates, and
 performs whatever part of its purpose remains meaningful.

    (For example, a function in a library to compute square roots has a
 purpose that is entirely well-defined independent of the application.
 Therefore, Subsection 2d requires that any application-supplied function or
```

```
 table used by this function must be optional: if the application does not
 supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.
```

```
When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

    a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
    b) Use a suitable shared library mechanism for linking with the Library.
 A suitable mechanism is one that (1) uses at run time a copy of the
 library already present on the user's computer system, rather than copying
 library functions into the executable, and (2) will operate properly with
 a modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
    c) Accompany the work with a written offer, valid for at least three
 years, to give the same user the materials specified in Subsection 6a,
 above, for a charge no more than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
    e) Verify that the user has already received a copy of these materials
 or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
```

```
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

    a) Accompany the combined library with a copy of the same work based
 on the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
    b) Give prominent notice with the combined library of the fact that
 part of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
```

```
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS
```

```
==============================================

Creative Commons 1.0

     CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
 LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-
CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-
IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS
 DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS
 LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE
 INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
 exclusive Copyright and Related Rights (defined below) upon the creator
 and subsequent owner(s) (each and all, an "owner") of an original work of
 authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the
 purpose of contributing to a commons of creative, cultural and scientific
 works ("Commons") that the public can reliably and without fear of later
 claims of infringement build upon, modify, incorporate in other works,
 reuse and redistribute as freely as possible in any form whatsoever and
 for any purposes, including without limitation commercial purposes. These
 owners may contribute to the Commons to promote the ideal of a free culture
 and the further production of creative, cultural and scientific works, or
 to gain reputation or greater distribution for their Work in part through
 the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of additional consideration or compensation, the person associating CC0
 with a Work (the "Affirmer"), to the extent that he or she is an owner
 of Copyright and Related Rights in the Work, voluntarily elects to apply
 CC0 to the Work and publicly distribute the Work under its terms, with
 knowledge of his or her Copyright and Related Rights in the Work and the
 meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
 protected by copyright and related or neighboring rights ("Copyright and
 Related Rights"). Copyright and Related Rights include, but are not limited
 to, the following:

    the right to reproduce, adapt, distribute, perform, display,
 communicate, and translate a Work;
    moral rights retained by the original author(s) and/or performer(s);
    publicity and privacy rights pertaining to a person's image or likeness
 depicted in a Work;
    rights protecting against unfair competition in regards to a Work,
 subject to the limitations in paragraph 4(a), below;
    rights protecting the extraction, dissemination, use and reuse of data
 in a Work;
    database rights (such as those arising under Directive 96/9/EC of
 the European Parliament and of the Council of 11 March 1996 on the legal
 protection of databases, and under any national implementation thereof,
 including any amended or successor version of such directive); and
    other similar, equivalent or corresponding rights throughout the
 world based on applicable law or treaty, and any national implementations
 thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of,
 applicable law, Affirmer hereby overtly, fully, permanently, irrevocably
 and unconditionally waives, abandons, and surrenders all of Affirmer's
 Copyright and Related Rights and associated claims and causes of action,
```

```
 whether now known or unknown (including existing as well as future claims
 and causes of action), in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "Waiver").
 Affirmer makes the Waiver for the benefit of each member of the public
 at large and to the detriment of Affirmer's heirs and successors, fully
 intending that such Waiver shall not be subject to revocation, rescission,
 cancellation, termination, or any other legal or equitable action to
 disrupt the quiet enjoyment of the Work by the public as contemplated by
 Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
 be judged legally invalid or ineffective under applicable law, then the
 Waiver shall be preserved to the maximum extent permitted taking into
 account Affirmer's express Statement of Purpose. In addition, to the
 extent the Waiver is so judged Affirmer hereby grants to each affected
 person a royalty-free, non transferable, non sublicensable, non exclusive,
 irrevocable and unconditional license to exercise Affirmer's Copyright
 and Related Rights in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "License").
 The License shall be deemed effective as of the date CC0 was applied by
 Affirmer to the Work. Should any part of the License for any reason be
 judged legally invalid or ineffective under applicable law, such partial
 invalidity or ineffectiveness shall not invalidate the remainder of the
 License, and in such case Affirmer hereby affirms that he or she will
 not (i) exercise any of his or her remaining Copyright and Related Rights
 in the Work or (ii) assert any associated claims and causes of action
 with respect to the Work, in either case contrary to Affirmer's express
 Statement of Purpose.

4. Limitations and Disclaimers.

    No trademark or patent rights held by Affirmer are waived, abandoned,
 surrendered, licensed or otherwise affected by this document.
    Affirmer offers the Work as-is and makes no representations or
 warranties of any kind concerning the Work, express, implied, statutory
 or otherwise, including without limitation warranties of title,
 merchantability, fitness for a particular purpose, non infringement, or the
 absence of latent or other defects, accuracy, or the present or absence of
 errors, whether or not discoverable, all to the greatest extent permissible
 under applicable law.
    Affirmer disclaims responsibility for clearing rights of other persons
 that may apply to the Work or any use thereof, including without limitation
 any person's Copyright and Related Rights in the Work. Further, Affirmer
 disclaims responsibility for obtaining any necessary consents, permissions
 or other rights required for any use of the Work.
    Affirmer understands and acknowledges that Creative Commons is not a
 party to this document and has no duty or obligation with respect to this
 CC0 or use of the Work.


==================================================

GPL 3.0

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007
```

```
Copyright © 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license
 document, but changing it is not allowed.
Preamble

The GNU General Public License is a free, copyleft license for software and
 other kinds of works.

The licenses for most software and other practical works are designed to
 take away your freedom to share and change the works. By contrast, the GNU
 General Public License is intended to guarantee your freedom to share and
 change all versions of a program--to make sure it remains free software
 for all its users. We, the Free Software Foundation, use the GNU General
 Public License for most of our software; it applies also to any other work
 released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
 General Public Licenses are designed to make sure that you have the freedom
 to distribute copies of free software (and charge for them if you wish),
 that you receive source code or can get it if you want it, that you can
 change the software or use pieces of it in new free programs, and that you
 know you can do these things.

To protect your rights, we need to prevent others from denying you these
 rights or asking you to surrender the rights. Therefore, you have certain
 responsibilities if you distribute copies of the software, or if you modify
 it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or
 for a fee, you must pass on to the recipients the same freedoms that you
 received. You must make sure that they, too, receive or can get the source
 code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1)
 assert copyright on the software, and (2) offer you this License giving you
 legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that
 there is no warranty for this free software. For both users' and authors'
 sake, the GPL requires that modified versions be marked as changed, so that
 their problems will not be attributed erroneously to authors of previous
 versions.

Some devices are designed to deny users access to install or run modified
 versions of the software inside them, although the manufacturer can do
 so. This is fundamentally incompatible with the aim of protecting users'
 freedom to change the software. The systematic pattern of such abuse occurs
 in the area of products for individuals to use, which is precisely where
 it is most unacceptable. Therefore, we have designed this version of the
 GPL to prohibit the practice for those products. If such problems arise
 substantially in other domains, we stand ready to extend this provision
 to those domains in future versions of the GPL, as needed to protect the
 freedom of users.

Finally, every program is threatened constantly by software patents. States
 should not allow patents to restrict development and use of software
 on general-purpose computers, but in those that do, we wish to avoid
 the special danger that patents applied to a free program could make it
 effectively proprietary. To prevent this, the GPL assures that patents
 cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification
 follow.
```

```
TERMS AND CONDITIONS
0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of
 works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License.
 Each licensee is addressed as “you”. “Licensees” and “recipients” may be
 individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a
 fashion requiring copyright permission, other than the making of an exact
 copy. The resulting work is called a “modified version” of the earlier work
 or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the
 Program.

To “propagate” a work means to do anything with it that, without permission,
 would make you directly or secondarily liable for infringement under
 applicable copyright law, except executing it on a computer or modifying a
 private copy. Propagation includes copying, distribution (with or without
 modification), making available to the public, and in some countries other
 activities as well.

To “convey” a work means any kind of propagation that enables other parties
 to make or receive copies. Mere interaction with a user through a computer
 network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the
 extent that it includes a convenient and prominently visible feature that
 (1) displays an appropriate copyright notice, and (2) tells the user that
 there is no warranty for the work (except to the extent that warranties are
 provided), that licensees may convey the work under this License, and how
 to view a copy of this License. If the interface presents a list of user
 commands or options, such as a menu, a prominent item in the list meets
 this criterion.
1. Source Code.

The “source code” for a work means the preferred form of the work for making
 modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official
 standard defined by a recognized standards body, or, in the case of
 interfaces specified for a particular programming language, one that is
 widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than
 the work as a whole, that (a) is included in the normal form of packaging
 a Major Component, but which is not part of that Major Component, and (b)
 serves only to enable use of the work with that Major Component, or to
 implement a Standard Interface for which an implementation is available
 to the public in source code form. A “Major Component”, in this context,
 means a major essential component (kernel, window system, and so on) of the
 specific operating system (if any) on which the executable work runs, or
 a compiler used to produce the work, or an object code interpreter used to
 run it.

The “Corresponding Source” for a work in object code form means all the
 source code needed to generate, install, and (for an executable work) run
 the object code and to modify the work, including scripts to control those
 activities. However, it does not include the work's System Libraries, or
```

```
 general-purpose tools or generally available free programs which are used
 unmodified in performing those activities but which are not part of the
 work. For example, Corresponding Source includes interface definition files
 associated with source files for the work, and the source code for shared
 libraries and dynamically linked subprograms that the work is specifically
 designed to require, such as by intimate data communication or control flow
 between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate
 automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.
2. Basic Permissions.

All rights granted under this License are granted for the term of copyright
 on the Program, and are irrevocable provided the stated conditions are
 met. This License explicitly affirms your unlimited permission to run
 the unmodified Program. The output from running a covered work is covered
 by this License only if the output, given its content, constitutes a
 covered work. This License acknowledges your rights of fair use or other
 equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey,
 without conditions so long as your license otherwise remains in force.
 You may convey covered works to others for the sole purpose of having them
 make modifications exclusively for you, or provide you with facilities
 for running those works, provided that you comply with the terms of
 this License in conveying all material for which you do not control
 copyright. Those thus making or running the covered works for you must do
 so exclusively on your behalf, under your direction and control, on terms
 that prohibit them from making any copies of your copyrighted material
 outside their relationship with you.

Conveying under any other circumstances is permitted solely under the
 conditions stated below. Sublicensing is not allowed; section 10 makes it
 unnecessary.
3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure
 under any applicable law fulfilling obligations under article 11 of
 the WIPO copyright treaty adopted on 20 December 1996, or similar laws
 prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid
 circumvention of technological measures to the extent such circumvention
 is effected by exercising rights under this License with respect to
 the covered work, and you disclaim any intention to limit operation or
 modification of the work as a means of enforcing, against the work's
 users, your or third parties' legal rights to forbid circumvention of
 technological measures.
4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive
 it, in any medium, provided that you conspicuously and appropriately
 publish on each copy an appropriate copyright notice; keep intact all
 notices stating that this License and any non-permissive terms added in
 accord with section 7 apply to the code; keep intact all notices of the
 absence of any warranty; and give all recipients a copy of this License
 along with the Program.

You may charge any price or no price for each copy that you convey, and you
 may offer support or warranty protection for a fee.
5. Conveying Modified Source Versions.
```

```
You may convey a work based on the Program, or the modifications to produce
 it from the Program, in the form of source code under the terms of section
 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified it,
 and giving a relevant date.
    b) The work must carry prominent notices stating that it is released
 under this License and any conditions added under section 7. This
 requirement modifies the requirement in section 4 to "keep intact all
 notices".
    c) You must license the entire work, as a whole, under this License to
 anyone who comes into possession of a copy. This License will therefore
 apply, along with any applicable section 7 additional terms, to the whole
 of the work, and all its parts, regardless of how they are packaged. This
 License gives no permission to license the work in any other way, but it
 does not invalidate such permission if you have separately received it.
    d) If the work has interactive user interfaces, each must display
 Appropriate Legal Notices; however, if the Program has interactive
 interfaces that do not display Appropriate Legal Notices, your work need
 not make them do so.

A compilation of a covered work with other separate and independent works,
 which are not by their nature extensions of the covered work, and which
 are not combined with it such as to form a larger program, in or on a
 volume of a storage or distribution medium, is called an "aggregate" if the
 compilation and its resulting copyright are not used to limit the access
 or legal rights of the compilation's users beyond what the individual works
 permit. Inclusion of a covered work in an aggregate does not cause this
 License to apply to the other parts of the aggregate.
6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of
 sections 4 and 5, provided that you also convey the machine-readable
 Corresponding Source under the terms of this License, in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
 (including a physical distribution medium), accompanied by the
 Corresponding Source fixed on a durable physical medium customarily used
 for software interchange.
    b) Convey the object code in, or embodied in, a physical product
 (including a physical distribution medium), accompanied by a written
 offer, valid for at least three years and valid for as long as you offer
 spare parts or customer support for that product model, to give anyone who
 possesses the object code either (1) a copy of the Corresponding Source
 for all the software in the product that is covered by this License, on
 a durable physical medium customarily used for software interchange, for
 a price no more than your reasonable cost of physically performing this
 conveying of source, or (2) access to copy the Corresponding Source from a
 network server at no charge.
    c) Convey individual copies of the object code with a copy of the
 written offer to provide the Corresponding Source. This alternative is
 allowed only occasionally and noncommercially, and only if you received the
 object code with such an offer, in accord with subsection 6b.
    d) Convey the object code by offering access from a designated place
 (gratis or for a charge), and offer equivalent access to the Corresponding
 Source in the same way through the same place at no further charge. You
 need not require recipients to copy the Corresponding Source along with
 the object code. If the place to copy the object code is a network server,
 the Corresponding Source may be on a different server (operated by you or
 a third party) that supports equivalent copying facilities, provided you
 maintain clear directions next to the object code saying where to find the
 Corresponding Source. Regardless of what server hosts the Corresponding
 Source, you remain obligated to ensure that it is available for as long as
 needed to satisfy these requirements.
```

```
    e) Convey the object code using peer-to-peer transmission, provided you
 inform other peers where the object code and Corresponding Source of the
 work are being offered to the general public at no charge under subsection
 6d.

A separable portion of the object code, whose source code is excluded from
 the Corresponding Source as a System Library, need not be included in
 conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
 tangible personal property which is normally used for personal, family,
 or household purposes, or (2) anything designed or sold for incorporation
 into a dwelling. In determining whether a product is a consumer product,
 doubtful cases shall be resolved in favor of coverage. For a particular
 product received by a particular user, "normally used" refers to a typical
 or common use of that class of product, regardless of the status of the
 particular user or of the way in which the particular user actually uses,
 or expects or is expected to use, the product. A product is a consumer
 product regardless of whether the product has substantial commercial,
 industrial or non-consumer uses, unless such uses represent the only
 significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures,
 authorization keys, or other information required to install and execute
 modified versions of a covered work in that User Product from a modified
 version of its Corresponding Source. The information must suffice to ensure
 that the continued functioning of the modified object code is in no case
 prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or
 specifically for use in, a User Product, and the conveying occurs as part
 of a transaction in which the right of possession and use of the User
 Product is transferred to the recipient in perpetuity or for a fixed term
 (regardless of how the transaction is characterized), the Corresponding
 Source conveyed under this section must be accompanied by the Installation
 Information. But this requirement does not apply if neither you nor any
 third party retains the ability to install modified object code on the User
 Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a
 requirement to continue to provide support service, warranty, or updates
 for a work that has been modified or installed by the recipient, or for
 the User Product in which it has been modified or installed. Access to a
 network may be denied when the modification itself materially and adversely
 affects the operation of the network or violates the rules and protocols
 for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in
 accord with this section must be in a format that is publicly documented
 (and with an implementation available to the public in source code form),
 and must require no special password or key for unpacking, reading or
 copying.
7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License
 by making exceptions from one or more of its conditions. Additional
 permissions that are applicable to the entire Program shall be treated
 as though they were included in this License, to the extent that they are
 valid under applicable law. If additional permissions apply only to part of
 the Program, that part may be used separately under those permissions, but
 the entire Program remains governed by this License without regard to the
 additional permissions.
```

```
When you convey a copy of a covered work, you may at your option remove any
 additional permissions from that copy, or from any part of it. (Additional
 permissions may be written to require their own removal in certain
 cases when you modify the work.) You may place additional permissions on
 material, added by you to a covered work, for which you have or can give
 appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add
 to a covered work, you may (if authorized by the copyright holders of that
 material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the terms
 of sections 15 and 16 of this License; or
    b) Requiring preservation of specified reasonable legal notices or
 author attributions in that material or in the Appropriate Legal Notices
 displayed by works containing it; or
    c) Prohibiting misrepresentation of the origin of that material, or
 requiring that modified versions of such material be marked in reasonable
 ways as different from the original version; or
    d) Limiting the use for publicity purposes of names of licensors or
 authors of the material; or
    e) Declining to grant rights under trademark law for use of some trade
 names, trademarks, or service marks; or
    f) Requiring indemnification of licensors and authors of that material
 by anyone who conveys the material (or modified versions of it) with
 contractual assumptions of liability to the recipient, for any liability
 that these contractual assumptions directly impose on those licensors and
 authors.

All other non-permissive additional terms are considered "further
 restrictions" within the meaning of section 10. If the Program as you
 received it, or any part of it, contains a notice stating that it is
 governed by this License along with a term that is a further restriction,
 you may remove that term. If a license document contains a further
 restriction but permits relicensing or conveying under this License, you
 may add to a covered work material governed by the terms of that license
 document, provided that the further restriction does not survive such
 relicensing or conveying.

If you add terms to a covered work in accord with this section, you must
 place, in the relevant source files, a statement of the additional terms
 that apply to those files, or a notice indicating where to find the
 applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
 form of a separately written license, or stated as exceptions; the above
 requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided
 under this License. Any attempt otherwise to propagate or modify it is
 void, and will automatically terminate your rights under this License
 (including any patent licenses granted under the third paragraph of section
 11).

However, if you cease all violation of this License, then your license from
 a particular copyright holder is reinstated (a) provisionally, unless and
 until the copyright holder explicitly and finally terminates your license,
 and (b) permanently, if the copyright holder fails to notify you of the
 violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated
 permanently if the copyright holder notifies you of the violation by
 some reasonable means, this is the first time you have received notice of
```

```
 violation of this License (for any work) from that copyright holder, and
 you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the
 licenses of parties who have received copies or rights from you under
 this License. If your rights have been terminated and not permanently
 reinstated, you do not qualify to receive new licenses for the same
 material under section 10.
9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a
 copy of the Program. Ancillary propagation of a covered work occurring
 solely as a consequence of using peer-to-peer transmission to receive a
 copy likewise does not require acceptance. However, nothing other than
 this License grants you permission to propagate or modify any covered
 work. These actions infringe copyright if you do not accept this License.
 Therefore, by modifying or propagating a covered work, you indicate your
 acceptance of this License to do so.
10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives
 a license from the original licensors, to run, modify and propagate that
 work, subject to this License. You are not responsible for enforcing
 compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an
 organization, or substantially all assets of one, or subdividing an
 organization, or merging organizations. If propagation of a covered work
 results from an entity transaction, each party to that transaction who
 receives a copy of the work also receives whatever licenses to the work
 the party's predecessor in interest had or could give under the previous
 paragraph, plus a right to possession of the Corresponding Source of the
 work from the predecessor in interest, if the predecessor has it or can get
 it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights
 granted or affirmed under this License. For example, you may not impose a
 license fee, royalty, or other charge for exercise of rights granted under
 this License, and you may not initiate litigation (including a cross-claim
 or counterclaim in a lawsuit) alleging that any patent claim is infringed
 by making, using, selling, offering for sale, or importing the Program or
 any portion of it.
11. Patents.

A “contributor” is a copyright holder who authorizes use under this License
 of the Program or a work on which the Program is based. The work thus
 licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned
 or controlled by the contributor, whether already acquired or hereafter
 acquired, that would be infringed by some manner, permitted by this
 License, of making, using, or selling its contributor version, but do not
 include claims that would be infringed only as a consequence of further
 modification of the contributor version. For purposes of this definition,
 “control” includes the right to grant patent sublicenses in a manner
 consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent
 license under the contributor's essential patent claims, to make, use,
 sell, offer for sale, import and otherwise run, modify and propagate the
 contents of its contributor version.

In the following three paragraphs, a “patent license” is any express
 agreement or commitment, however denominated, not to enforce a patent (such
```

```
 as an express permission to practice a patent or covenant not to sue for
 patent infringement). To “grant” such a patent license to a party means to
 make such an agreement or commitment not to enforce a patent against the
 party.

If you convey a covered work, knowingly relying on a patent license, and the
 Corresponding Source of the work is not available for anyone to copy, free
 of charge and under the terms of this License, through a publicly available
 network server or other readily accessible means, then you must either
 (1) cause the Corresponding Source to be so available, or (2) arrange to
 deprive yourself of the benefit of the patent license for this particular
 work, or (3) arrange, in a manner consistent with the requirements of this
 License, to extend the patent license to downstream recipients. “Knowingly
 relying” means you have actual knowledge that, but for the patent license,
 your conveying the covered work in a country, or your recipient's use of
 the covered work in a country, would infringe one or more identifiable
 patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement,
 you convey, or propagate by procuring conveyance of, a covered work, and
 grant a patent license to some of the parties receiving the covered work
 authorizing them to use, propagate, modify or convey a specific copy of the
 covered work, then the patent license you grant is automatically extended
 to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope
 of its coverage, prohibits the exercise of, or is conditioned on the non-
exercise of one or more of the rights that are specifically granted under
 this License. You may not convey a covered work if you are a party to an
 arrangement with a third party that is in the business of distributing
 software, under which you make payment to the third party based on the
 extent of your activity of conveying the work, and under which the third
 party grants, to any of the parties who would receive the covered work from
 you, a discriminatory patent license (a) in connection with copies of the
 covered work conveyed by you (or copies made from those copies), or (b)
 primarily for and in connection with specific products or compilations that
 contain the covered work, unless you entered into that arrangement, or that
 patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any
 implied license or other defenses to infringement that may otherwise be
 available to you under applicable patent law.
12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot convey a
 covered work so as to satisfy simultaneously your obligations under this
 License and any other pertinent obligations, then as a consequence you may
 not convey it at all. For example, if you agree to terms that obligate you
 to collect a royalty for further conveying from those to whom you convey
 the Program, the only way you could satisfy both those terms and this
 License would be to refrain entirely from conveying the Program.
13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to
 link or combine any covered work with a work licensed under version 3 of
 the GNU Affero General Public License into a single combined work, and to
 convey the resulting work. The terms of this License will continue to apply
 to the part which is the covered work, but the special requirements of
 the GNU Affero General Public License, section 13, concerning interaction
 through a network will apply to the combination as such.
14. Revised Versions of this License.
```

```
The Free Software Foundation may publish revised and/or new versions of
 the GNU General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Program
 specifies that a certain numbered version of the GNU General Public License
 “or any later version” applies to it, you have the option of following
 the terms and conditions either of that numbered version or of any later
 version published by the Free Software Foundation. If the Program does not
 specify a version number of the GNU General Public License, you may choose
 any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of
 the GNU General Public License can be used, that proxy's public statement
 of acceptance of a version permanently authorizes you to choose that
 version for the Program.

Later license versions may give you additional or different permissions.
 However, no additional obligations are imposed on any author or copyright
 holder as a result of your choosing to follow a later version.
15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE
 LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
 OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND,
 EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
 ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.
 SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY
 SERVICING, REPAIR OR CORRECTION.
16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
 ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE
 PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
 GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
 USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
 DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
 PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
 EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
 SUCH DAMAGES.
17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above
 cannot be given local legal effect according to their terms, reviewing
 courts shall apply local law that most closely approximates an absolute
 waiver of all civil liability in connection with the Program, unless a
 warranty or assumption of liability accompanies a copy of the Program in
 return for a fee.

END OF TERMS AND CONDITIONS

============================================================

MPL 1.1

Mozilla Public License Version 1.1
1. Definitions.

1.0.1. "Commercial Use"
    means distribution or otherwise making the Covered Code available to a
 third party.
1.1. "Contributor"
```

```
    means each entity that creates or contributes to the creation of
 Modifications.
1.2. "Contributor Version"
    means the combination of the Original Code, prior Modifications used by
 a Contributor, and the Modifications made by that particular Contributor.
1.3. "Covered Code"
    means the Original Code or Modifications or the combination of the
 Original Code and Modifications, in each case including portions thereof.
1.4. "Electronic Distribution Mechanism"
    means a mechanism generally accepted in the software development
 community for the electronic transfer of data.
1.5. "Executable"
    means Covered Code in any form other than Source Code.
1.6. "Initial Developer"
    means the individual or entity identified as the Initial Developer in
 the Source Code notice required by Exhibit A.
1.7. "Larger Work"
    means a work which combines Covered Code or portions thereof with code
 not governed by the terms of this License.
1.8. "License"
    means this document.
1.8.1. "Licensable"
    means having the right to grant, to the maximum extent possible, whether
 at the time of the initial grant or subsequently acquired, any and all of
 the rights conveyed herein.
1.9. "Modifications"

    means any addition to or deletion from the substance or structure of
 either the Original Code or any previous Modifications. When Covered Code
 is released as a series of files, a Modification is:

        Any addition to or deletion from the contents of a file containing
 Original Code or previous Modifications.
        Any new file that contains any part of the Original Code or previous
 Modifications.

1.10. "Original Code"
    means Source Code of computer software code which is described in the
 Source Code notice required by Exhibit A as Original Code, and which, at
 the time of its release under this License is not already Covered Code
 governed by this License.
1.10.1. "Patent Claims"
    means any patent claim(s), now owned or hereafter acquired, including
 without limitation, method, process, and apparatus claims, in any patent
 Licensable by grantor.
1.11. "Source Code"
    means the preferred form of the Covered Code for making modifications
 to it, including all modules it contains, plus any associated interface
 definition files, scripts used to control compilation and installation
 of an Executable, or source code differential comparisons against either
 the Original Code or another well known, available Covered Code of the
 Contributor's choice. The Source Code can be in a compressed or archival
 form, provided the appropriate decompression or de-archiving software is
 widely available for no charge.
1.12. "You" (or "Your")
    means an individual or a legal entity exercising rights under, and
 complying with all of the terms of, this License or a future version of
 this License issued under Section 6.1. For legal entities, "You" includes
 any entity which controls, is controlled by, or is under common control
 with You. For purposes of this definition, "control" means (a) the power,
 direct or indirect, to cause the direction or management of such entity,
 whether by contract or otherwise, or (b) ownership of more than fifty
 percent (50%) of the outstanding shares or beneficial ownership of such
 entity.
```

```
2. Source Code License.
2.1. The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive license, subject to third party intellectual property claims:

    under intellectual property rights (other than patent or trademark)
 Licensable by Initial Developer to use, reproduce, modify, display,
 perform, sublicense and distribute the Original Code (or portions thereof)
 with or without Modifications, and/or as part of a Larger Work; and
    under Patents Claims infringed by the making, using or selling of
 Original Code, to make, have made, use, practice, sell, and offer for sale,
 and/or otherwise dispose of the Original Code (or portions thereof).
    the licenses granted in this Section 2.1 (a) and (b) are effective on
 the date Initial Developer first distributes Original Code under the terms
 of this License.
    Notwithstanding Section 2.1 (b) above, no patent license is granted:
 1) for code that You delete from the Original Code; 2) separate from the
 Original Code; or 3) for infringements caused by: i) the modification of
 the Original Code or ii) the combination of the Original Code with other
 software or devices.

2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby
 grants You a world-wide, royalty-free, non-exclusive license

    under intellectual property rights (other than patent or trademark)
 Licensable by Contributor, to use, reproduce, modify, display, perform,
 sublicense and distribute the Modifications created by such Contributor (or
 portions thereof) either on an unmodified basis, with other Modifications,
 as Covered Code and/or as part of a Larger Work; and
    under Patent Claims infringed by the making, using, or selling of
 Modifications made by that Contributor either alone and/or in combination
 with its Contributor Version (or portions of such combination), to make,
 use, sell, offer for sale, have made, and/or otherwise dispose of: 1)
 Modifications made by that Contributor (or portions thereof); and 2) the
 combination of Modifications made by that Contributor with its Contributor
 Version (or portions of such combination).
    the licenses granted in Sections 2.2 (a) and 2.2 (b) are effective on
 the date Contributor first makes Commercial Use of the Covered Code.
    Notwithstanding Section 2.2 (b) above, no patent license is granted: 1)
 for any code that Contributor has deleted from the Contributor Version; 2)
 separate from the Contributor Version; 3) for infringements caused by: i)
 third party modifications of Contributor Version or ii) the combination of
 Modifications made by that Contributor with other software (except as part
 of the Contributor Version) or other devices; or 4) under Patent Claims
 infringed by Covered Code in the absence of Modifications made by that
 Contributor.

3. Distribution Obligations.
3.1. Application of License.

The Modifications which You create or to which You contribute are governed
 by the terms of this License, including without limitation Section 2.2.
 The Source Code version of Covered Code may be distributed only under the
 terms of this License or a future version of this License released under
 Section 6.1, and You must include a copy of this License with every copy
 of the Source Code You distribute. You may not offer or impose any terms on
 any Source Code version that alters or restricts the applicable version of
 this License or the recipients' rights hereunder. However, You may include
 an additional document offering the additional rights described in Section
 3.5.
```

```
3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made
 available in Source Code form under the terms of this License either on
 the same media as an Executable version or via an accepted Electronic
 Distribution Mechanism to anyone to whom you made an Executable version
 available; and if made available via Electronic Distribution Mechanism,
 must remain available for at least twelve (12) months after the date it
 initially became available, or at least six (6) months after a subsequent
 version of that particular Modification has been made available to such
 recipients. You are responsible for ensuring that the Source Code version
 remains available even if the Electronic Distribution Mechanism is
 maintained by a third party.
3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file
 documenting the changes You made to create that Covered Code and the date
 of any change. You must include a prominent statement that the Modification
 is derived, directly or indirectly, from Original Code provided by the
 Initial Developer and including the name of the Initial Developer in (a)
 the Source Code, and (b) in any notice in an Executable version or related
 documentation in which You describe the origin or ownership of the Covered
 Code.
3.4. Intellectual Property Matters
(a) Third Party Claims

If Contributor has knowledge that a license under a third party's
 intellectual property rights is required to exercise the rights granted
 by such Contributor under Sections 2.1 or 2.2, Contributor must include a
 text file with the Source Code distribution titled "LEGAL" which describes
 the claim and the party making the claim in sufficient detail that a
 recipient will know whom to contact. If Contributor obtains such knowledge
 after the Modification is made available as described in Section 3.2,
 Contributor shall promptly modify the LEGAL file in all copies Contributor
 makes available thereafter and shall take other steps (such as notifying
 appropriate mailing lists or newsgroups) reasonably calculated to inform
 those who received the Covered Code that new knowledge has been obtained.
(b) Contributor APIs

If Contributor's Modifications include an application programming interface
 and Contributor has knowledge of patent licenses which are reasonably
 necessary to implement that API, Contributor must also include this
 information in the legal file.
(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4
 (a) above, Contributor believes that Contributor's Modifications are
 Contributor's original creation(s) and/or Contributor has sufficient rights
 to grant the rights conveyed by this License.
3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code.
 If it is not possible to put such notice in a particular Source Code file
 due to its structure, then You must include such notice in a location (such
 as a relevant directory) where a user would be likely to look for such a
 notice. If You created one or more Modification(s) You may add your name as
 a Contributor to the notice described in Exhibit A. You must also duplicate
 this License in any documentation for the Source Code where You describe
 recipients' rights or ownership rights relating to Covered Code. You may
 choose to offer, and to charge a fee for, warranty, support, indemnity or
 liability obligations to one or more recipients of Covered Code. However,
 You may do so only on Your own behalf, and not on behalf of the Initial
 Developer or any Contributor. You must make it absolutely clear than any
 such warranty, support, indemnity or liability obligation is offered by You
```

```
 alone, and You hereby agree to indemnify the Initial Developer and every
 Contributor for any liability incurred by the Initial Developer or such
 Contributor as a result of warranty, support, indemnity or liability terms
 You offer.
3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements
 of Sections 3.1, 3.2, 3.3, 3.4 and 3.5 have been met for that Covered
 Code, and if You include a notice stating that the Source Code version of
 the Covered Code is available under the terms of this License, including
 a description of how and where You have fulfilled the obligations of
 Section 3.2. The notice must be conspicuously included in any notice
 in an Executable version, related documentation or collateral in which
 You describe recipients' rights relating to the Covered Code. You may
 distribute the Executable version of Covered Code or ownership rights
 under a license of Your choice, which may contain terms different from
 this License, provided that You are in compliance with the terms of this
 License and that the license for the Executable version does not attempt to
 limit or alter the recipient's rights in the Source Code version from the
 rights set forth in this License. If You distribute the Executable version
 under a different license You must make it absolutely clear that any terms
 which differ from this License are offered by You alone, not by the Initial
 Developer or any Contributor. You hereby agree to indemnify the Initial
 Developer and every Contributor for any liability incurred by the Initial
 Developer or such Contributor as a result of any such terms You offer.
3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not
 governed by the terms of this License and distribute the Larger Work as a
 single product. In such a case, You must make sure the requirements of this
 License are fulfilled for the Covered Code.
4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this
 License with respect to some or all of the Covered Code due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be included
 in the legal file described in Section 3.4 and must be included with
 all distributions of the Source Code. Except to the extent prohibited by
 statute or regulation, such description must be sufficiently detailed for a
 recipient of ordinary skill to be able to understand it.
5. Application of this License.

This License applies to code to which the Initial Developer has attached the
 notice in Exhibit A and to related Covered Code.
6. Versions of the License.
6.1. New Versions

Netscape Communications Corporation ("Netscape") may publish revised and/or
 new versions of the License from time to time. Each version will be given a
 distinguishing version number.
6.2. Effect of New Versions

Once Covered Code has been published under a particular version of the
 License, You may always continue to use it under the terms of that version.
 You may also choose to use such Covered Code under the terms of any
 subsequent version of the License published by Netscape. No one other
 than Netscape has the right to modify the terms applicable to Covered Code
 created under this License.
6.3. Derivative Works

If You create or use a modified version of this License (which you may
 only do in order to apply it to code which is not already Covered Code
```

```
 governed by this License), You must (a) rename Your license so that the
 phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any
 confusingly similar phrase do not appear in your license (except to note
 that your license differs from this License) and (b) otherwise make it
 clear that Your version of the license contains terms which differ from the
 Mozilla Public License and Netscape Public License. (Filling in the name of
 the Initial Developer, Original Code or Contributor in the notice described
 in Exhibit A shall not of themselves be deemed to be modifications of this
 License.)
7. Disclaimer of warranty

Covered code is provided under this license on an "as is" basis, without
 warranty of any kind, either expressed or implied, including, without
 limitation, warranties that the covered code is free of defects,
 merchantable, fit for a particular purpose or non-infringing. The entire
 risk as to the quality and performance of the covered code is with
 you. Should any covered code prove defective in any respect, you (not
 the initial developer or any other contributor) assume the cost of any
 necessary servicing, repair or correction. This disclaimer of warranty
 constitutes an essential part of this license. No use of any covered code
 is authorized hereunder except under this disclaimer.
8. Termination

8.1. This License and the rights granted hereunder will terminate
 automatically if You fail to comply with terms herein and fail to cure such
 breach within 30 days of becoming aware of the breach. All sublicenses to
 the Covered Code which are properly granted shall survive any termination
 of this License. Provisions which, by their nature, must remain in effect
 beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim
 (excluding declatory judgment actions) against Initial Developer or a
 Contributor (the Initial Developer or Contributor against whom You file
 such action is referred to as "Participant") alleging that:

    such Participant's Contributor Version directly or indirectly infringes
 any patent, then any and all rights granted by such Participant to You
 under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
 from Participant terminate prospectively, unless if within 60 days after
 receipt of notice You either: (i) agree in writing to pay Participant
 a mutually agreeable reasonable royalty for Your past and future use of
 Modifications made by such Participant, or (ii) withdraw Your litigation
 claim with respect to the Contributor Version against such Participant. If
 within 60 days of notice, a reasonable royalty and payment arrangement are
 not mutually agreed upon in writing by the parties or the litigation claim
 is not withdrawn, the rights granted by Participant to You under Sections
 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day
 notice period specified above.
    any software, hardware, or device, other than such Participant's
 Contributor Version, directly or indirectly infringes any patent, then
 any rights granted to You by such Participant under Sections 2.1(b) and
 2.2(b) are revoked effective as of the date You first made, used, sold,
 distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging
 that such Participant's Contributor Version directly or indirectly
 infringes any patent where such claim is resolved (such as by license or
 settlement) prior to the initiation of patent infringement litigation,
 then the reasonable value of the licenses granted by such Participant under
 Sections 2.1 or 2.2 shall be taken into account in determining the amount
 or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all
 end user license agreements (excluding distributors and resellers) which
```

```
 have been validly granted by You or any distributor hereunder prior to
 termination shall survive termination.
9. Limitation of liability

Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall you, the initial developer, any
 other contributor, or any distributor of covered code, or any supplier of
 any of such parties, be liable to any person for any indirect, special,
 incidental, or consequential damages of any character including, without
 limitation, damages for loss of goodwill, work stoppage, computer failure
 or malfunction, or any and all other commercial damages or losses, even
 if such party shall have been informed of the possibility of such damages.
 This limitation of liability shall not apply to liability for death or
 personal injury resulting from such party's negligence to the extent
 applicable law prohibits such limitation. Some jurisdictions do not allow
 the exclusion or limitation of incidental or consequential damages, so this
 exclusion and limitation may not apply to you.
10. U.S. government end users

The Covered Code is a "commercial item," as that term is defined in 48
 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and
 "commercial computer software documentation," as such terms are used in 48
 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R.
 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users
 acquire Covered Code with only those rights set forth herein.
11. Miscellaneous

This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. This License shall be governed by California law provisions
 (except to the extent applicable law, if any, provides otherwise),
 excluding its conflict-of-law provisions. With respect to disputes in
 which at least one party is a citizen of, or an entity chartered or
 registered to do business in the United States of America, any litigation
 relating to this License shall be subject to the jurisdiction of the
 Federal Courts of the Northern District of California, with venue lying
 in Santa Clara County, California, with the losing party responsible for
 costs, including without limitation, court costs and reasonable attorneys'
 fees and expenses. The application of the United Nations Convention on
 Contracts for the International Sale of Goods is expressly excluded. Any
 law or regulation which provides that the language of a contract shall be
 construed against the drafter shall not apply to this License.
12. Responsibility for claims

As between Initial Developer and the Contributors, each party is responsible
 for claims and damages arising, directly or indirectly, out of its
 utilization of rights under this License and You agree to work with
 Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.
13. Multiple-licensed code

Initial Developer may designate portions of the Covered Code as "Multiple-
Licensed". "Multiple-Licensed" means that the Initial Developer permits you
 to utilize portions of the Covered Code under Your choice of the MPL or
 the alternative licenses, if any, specified by the Initial Developer in the
 file described in Exhibit A.
Exhibit A - Mozilla Public License.

"The contents of this file are subject to the Mozilla Public License
Version 1.1 (the "License"); you may not use this file except in
compliance with the License. You may obtain a copy of the License at
https://www.mozilla.org/MPL/
```

```
Software distributed under the License is distributed on an "AS IS"
basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
License for the specific language governing rights and limitations
under the License.

The Original Code is ________________________________________.

The Initial Developer of the Original Code is ___________________________.
Portions created by _______________________ are Copyright (C) ______
_________________________. All Rights Reserved.

Contributor(s): ________________________________________.

Alternatively, the contents of this file may be used under the terms
of the _____ license (the  "[___] License"), in which case the
provisions of [______] License are applicable instead of those
above. If you wish to allow use of your version of this file only
under the terms of the [____] License and not to allow others to use
your version of this file under the MPL, indicate your decision by
deleting the provisions above and replace them with the notice and
other provisions required by the [___] License. If you do not delete
the provisions above, a recipient may use your version of this file
under either the MPL or the [___] License."

NOTE: The text of this Exhibit A may differ slightly from the text of the
 notices in the Source Code files of the Original Code. You should use the
 text of this Exhibit A rather than the text found in the Original Code
 Source Code for Your Modifications.


======================================================================
```

Provider: Coda Hale / Component(s): DropWizard 1.3.8

```
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2016 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
```

```
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
```

```
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
```

```
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=====================================================================

Compile Dependencies

=====================================================================

Apache 2.0
dropwizard-util 1.2.5
dropwizard-jackson 1.2.5
dropwizard-validation 1.2.5
dropwizard-configuration 1.2.5
dropwizard-logging 1.2.5
dropwizard-metrics 1.2.5
dropwizard-jersey 1.2.5
dropwizard-servlets 1.2.5
dropwizard-jetty 1.2.5
dropwizard-lifecycle 1.2.5
dropwizard-logging 1.2.5
dropwizard-request-logging 1.2.5
metrics-core 3.2.5
metrics-jvm 3.2.5
metrics-servlets 3.2.5
metrics-healthchecks 3.2.5
metrics-logback 3.2.5
metrics-jetty9 3.2.5
metrics-jersey2 3.2.5
metrics-annotations 3.2.5
jsr305 3.0.2
jsr305 1.3.9
guava 23.1-jre
guava 23.5-jre
joda-time 2.9.9
jackson-annotations 2.9.5
jackson-core  2.9.5
jackson-databind  2.9.5
jackson-datatype-guava  2.9.5
jackson-datatype-jsr310  2.9.5
jackson-datatype-jdk8  2.9.5
jackson-datatype-joda  2.9.5
jackson-dataformat-yaml  2.9.5
jackson-module-afterburner 2.9.5
jackson-module-parameter-names 2.9.5
jackson-jaxrs-json-provider 2.9.5
jackson-jaxrs-base 2.9.5
hibernate-validator 5.4.2Final
classmate 1.3.1
validation-api 1.1.0Final
```

```
commons-lang3 3.6
snakeyaml 1.17
javax.inject 1
error_prone_annotations 2.0.18
j2objc-annotations 1.1
profiler 1.0.2



MIT
argparse4j 0.7.0
slf4j-api 1.7.25
slf4j-api 1.7.25
jul-to-slf4j 1.7.25
jcl-over-slf4j 1.7.25
animal-sniffer-annotations 1.14
checker-qual 2.0.0

Apache 2.0 + EPL 1.0
jetty-setuid-java 1.0.3
jetty-server 9.4.8.v20171121
jetty-util 9.4.8.v20171121
jetty-http 9.4.8.v20171121
jetty-io 9.4.8.v20171121
jetty-webapp 9.4.8.v20171121
jetty-continuation 9.4.8.v20171121
jetty-xml 9.4.8.v20171121
jetty-servlet 9.4.8.v20171121
jetty-security 9.4.7.v20170914
jetty-servlets 9.4.8.v20171121


EPL 1.0 + LGPL 2.1
logback-core 1.2.3
logback-classic 1.2.3
logback-classic 1.1.10
logback-core 1.1.10
logback-access 1.2.3



Apache 2.0 + CC0 1.0 Public
jboss-logging 3.3.0Final



Apache 2.0 + MIT
log4j-over-slf4j 1.7.24
animal-sniffer-annotations 1.14



Apache 2.0 + LGPL 2.1 + MPl 1.1
javassist 3.21.0-GA



==========================================================================================
==========================================================================================

Apache 2.0

Version 2.0, January 2004
```

```
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
```

```
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
```

```
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=================================================================

argparse4j 0.7.0


/*
 * Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
=====================================================

slf4j-api 1.7.24
```

```
slf4j-api 1.7.22
jul-to-slf4j 1.7.24
jcl-over-slf4j 1.7.24


Copyright (c) 2004-2017 QOS.ch All rights reserved. Permission is hereby
 granted, free of charge, to any person obtaining a copy of this software
 and associated documentation files (the "Software"), to deal in the
 Software without restriction, including without limitation the rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software
 is furnished to do so, subject to the following conditions: The above
 copyright notice and this permission notice shall be included in all copies
 or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS",
 WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
 TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
 AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
 SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==========


EPL 1.0

 Eclipse Public License, Version 1.0 (EPL-1.0)

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

    a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
    b) in the case of each subsequent Contributor:
    i) changes to the Program, and
    ii) additions to the Program;
    where such changes and/or additions to the Program originate from and
 are distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS
```

```
    a) Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free copyright license
 to reproduce, prepare derivative works of, publicly display, publicly
 perform, distribute and sublicense the Contribution of such Contributor, if
 any, and such derivative works, in source code and object code form.
    b) Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free patent license
 under Licensed Patents to make, use, sell, offer to sell, import and
 otherwise transfer the Contribution of such Contributor, if any, in
 source code and object code form. This patent license shall apply to
 the combination of the Contribution and the Program if, at the time the
 Contribution is added by the Contributor, such addition of the Contribution
 causes such combination to be covered by the Licensed Patents. The patent
 license shall not apply to any other combinations which include the
 Contribution. No hardware per se is licensed hereunder.
    c) Recipient understands that although each Contributor grants the
 licenses to its Contributions set forth herein, no assurances are provided
 by any Contributor that the Program does not infringe the patent or
 other intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
    d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

    a) it complies with the terms and conditions of this Agreement; and
    b) its license agreement:
    i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
    ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
    iii) states that any provisions which differ from this Agreement are
 offered by that Contributor alone and not by any other party; and
    iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

    a) it must be made available under this Agreement; and
    b) a copy of this Agreement must be included with each copy of the
 Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
```

```
4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
```

```
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.


============================================================

CDDL 1.0

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE Version 1.0 (CDDL-1.0) (text)

    1. Definitions.

        1.1. Contributor means each individual or entity that creates or
 contributes to the creation of Modifications.

        1.2. Contributor Version means the combination of the Original
 Software, prior Modifications used by a Contributor (if any), and the
 Modifications made by that particular Contributor.

        1.3. Covered Software means (a) the Original Software, or (b)
 Modifications, or (c) the combination of files containing Original Software
 with files containing Modifications, in each case including portions
 thereof.

        1.4. Executable means the Covered Software in any form other than
 Source Code.
```

```
       1.5. Initial Developer means the individual or entity that first
makes Original Software available under this License.

       1.6. Larger Work means a work which combines Covered Software or
portions thereof with code not governed by the terms of this License.

       1.7. License means this document.

       1.8. Licensable means having the right to grant, to the maximum
extent possible, whether at the time of the initial grant or subsequently
acquired, any and all of the rights conveyed herein.

       1.9. Modifications means the Source Code and Executable form of any
of the following:

           A. Any file that results from an addition to, deletion from
or modification of the contents of a file containing Original Software or
previous Modifications;

           B. Any new file that contains any part of the Original Software
or previous Modification; or

           C. Any new file that is contributed or otherwise made available
under the terms of this License.

       1.10. Original Software means the Source Code and Executable form of
computer software code that is originally released under this License.

       1.11. Patent Claims means any patent claim(s), now owned or
hereafter acquired, including without limitation, method, process, and
apparatus claims, in any patent Licensable by grantor.

       1.12. Source Code means (a) the common form of computer software
code in which modifications are made and (b) associated documentation
included in or with such code.

       1.13. You (or Your) means an individual or a legal entity exercising
rights under, and complying with all of the terms of, this License. For
legal entities, You includes any entity which controls, is controlled
by, or is under common control with You. For purposes of this definition,
control means (a) the power, direct or indirect, to cause the direction
or management of such entity, whether by contract or otherwise, or (b)
ownership of more than fifty percent (50%) of the outstanding shares or
beneficial ownership of such entity.

   2. License Grants.

       2.1. The Initial Developer Grant.

       Conditioned upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, the Initial Developer hereby
grants You a world-wide, royalty-free, non-exclusive license:

           (a) under intellectual property rights (other than patent or
trademark) Licensable by Initial Developer, to use, reproduce, modify,
display, perform, sublicense and distribute the Original Software (or
portions thereof), with or without Modifications, and/or as part of a
Larger Work; and

           (b) under Patent Claims infringed by the making, using or
selling of Original Software, to make, have made, use, practice, sell,
and offer for sale, and/or otherwise dispose of the Original Software (or
portions thereof).
```

```
           (c) The licenses granted in Sections 2.1(a) and (b) are
effective on the date Initial Developer first distributes or otherwise
makes the Original Software available to a third party under the terms of
this License.

           (d) Notwithstanding Section 2.1(b) above, no patent license is
granted: (1) for code that You delete from the Original Software, or (2)
for infringements caused by: (i) the modification of the Original Software,
or (ii) the combination of the Original Software with other software or
devices.

       2.2. Contributor Grant.

       Conditioned upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, each Contributor hereby grants
You a world-wide, royalty-free, non-exclusive license:

           (a) under intellectual property rights (other than patent or
trademark) Licensable by Contributor to use, reproduce, modify, display,
perform, sublicense and distribute the Modifications created by such
Contributor (or portions thereof), either on an unmodified basis, with
other Modifications, as Covered Software and/or as part of a Larger Work;
and

           (b) under Patent Claims infringed by the making, using, or
selling of Modifications made by that Contributor either alone and/or in
combination with its Contributor Version (or portions of such combination),
to make, use, sell, offer for sale, have made, and/or otherwise dispose
of: (1) Modifications made by that Contributor (or portions thereof); and
(2) the combination of Modifications made by that Contributor with its
Contributor Version (or portions of such combination).

           (c) The licenses granted in Sections 2.2(a) and 2.2(b) are
effective on the date Contributor first distributes or otherwise makes the
Modifications available to a third party.

           (d) Notwithstanding Section 2.2(b) above, no patent license is
granted: (1) for any code that Contributor has deleted from the Contributor
Version; (2) for infringements caused by: (i) third party modifications of
Contributor Version, or (ii) the combination of Modifications made by that
Contributor with other software (except as part of the Contributor Version)
or other devices; or (3) under Patent Claims infringed by Covered Software
in the absence of Modifications made by that Contributor.

   3. Distribution Obligations.

       3.1. Availability of Source Code.

       Any Covered Software that You distribute or otherwise make available
in Executable form must also be made available in Source Code form and that
Source Code form must be distributed only under the terms of this License.
You must include a copy of this License with every copy of the Source Code
form of the Covered Software You distribute or otherwise make available.
You must inform recipients of any such Covered Software in Executable form
as to how they can obtain such Covered Software in Source Code form in
a reasonable manner on or through a medium customarily used for software
exchange.

       3.2. Modifications.

       The Modifications that You create or to which You contribute are
governed by the terms of this License. You represent that You believe Your
```

```
Modifications are Your original creation(s) and/or You have sufficient
rights to grant the rights conveyed by this License.

       3.3. Required Notices.

       You must include a notice in each of Your Modifications that
identifies You as the Contributor of the Modification. You may not remove
or alter any copyright, patent or trademark notices contained within the
Covered Software, or any notices of licensing or any descriptive text
giving attribution to any Contributor or the Initial Developer.

       3.4. Application of Additional Terms.

       You may not offer or impose any terms on any Covered Software in
Source Code form that alters or restricts the applicable version of this
License or the recipients rights hereunder. You may choose to offer, and
to charge a fee for, warranty, support, indemnity or liability obligations
to one or more recipients of Covered Software. However, you may do so
only on Your own behalf, and not on behalf of the Initial Developer or
any Contributor. You must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by You alone, and You
hereby agree to indemnify the Initial Developer and every Contributor for
any liability incurred by the Initial Developer or such Contributor as a
result of warranty, support, indemnity or liability terms You offer.

       3.5. Distribution of Executable Versions.

       You may distribute the Executable form of the Covered Software under
the terms of this License or under the terms of a license of Your choice,
which may contain terms different from this License, provided that You are
in compliance with the terms of this License and that the license for the
Executable form does not attempt to limit or alter the recipients rights
in the Source Code form from the rights set forth in this License. If
You distribute the Covered Software in Executable form under a different
license, You must make it absolutely clear that any terms which differ
from this License are offered by You alone, not by the Initial Developer or
Contributor. You hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial Developer or such
Contributor as a result of any such terms You offer.

       3.6. Larger Works.

       You may create a Larger Work by combining Covered Software with
other code not governed by the terms of this License and distribute the
Larger Work as a single product. In such a case, You must make sure the
requirements of this License are fulfilled for the Covered Software.

   4. Versions of the License.

       4.1. New Versions.

       Sun Microsystems, Inc. is the initial license steward and may
publish revised and/or new versions of this License from time to time. Each
version will be given a distinguishing version number. Except as provided
in Section 4.3, no one other than the license steward has the right to
modify this License.

       4.2. Effect of New Versions.

       You may always continue to use, distribute or otherwise make the
Covered Software available under the terms of the version of the License
under which You originally received the Covered Software. If the Initial
Developer includes a notice in the Original Software prohibiting it from
being distributed or otherwise made available under any subsequent version
```

of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN AS IS BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as Participant) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER

INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTYS NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a commercial item, as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of commercial computer software (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and commercial computer software documentation as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdictions conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

==========

CDDL 1.1

1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original

```
  Software, prior Modifications used by a Contributor (if any), and
  the Modifications made by that particular Contributor.

  1.3. "Covered Software" means (a) the Original Software, or (b)
  Modifications, or (c) the combination of files containing Original
  Software with files containing Modifications, in each case including
  portions thereof.

  1.4. "Executable" means the Covered Software in any form other than
  Source Code.

  1.5. "Initial Developer" means the individual or entity that first
  makes Original Software available under this License.

  1.6. "Larger Work" means a work which combines Covered Software or
  portions thereof with code not governed by the terms of this License.

  1.7. "License" means this document.

  1.8. "Licensable" means having the right to grant, to the maximum
  extent possible, whether at the time of the initial grant or
  subsequently acquired, any and all of the rights conveyed herein.

  1.9. "Modifications" means the Source Code and Executable form of
  any of the following:

  A. Any file that results from an addition to, deletion from or
  modification of the contents of a file containing Original Software
  or previous Modifications;

  B. Any new file that contains any part of the Original Software or
  previous Modification; or

  C. Any new file that is contributed or otherwise made available
  under the terms of this License.

  1.10. "Original Software" means the Source Code and Executable form
  of computer software code that is originally released under this
  License.

  1.11. "Patent Claims" means any patent claim(s), now owned or
  hereafter acquired, including without limitation, method, process,
  and apparatus claims, in any patent Licensable by grantor.

  1.12. "Source Code" means (a) the common form of computer software
  code in which modifications are made and (b) associated
  documentation included in or with such code.

  1.13. "You" (or "Your") means an individual or a legal entity
  exercising rights under, and complying with all of the terms of,
  this License. For legal entities, "You" includes any entity which
  controls, is controlled by, or is under common control with You. For
  purposes of this definition, "control" means (a) the power, direct
  or indirect, to cause the direction or management of such entity,
  whether by contract or otherwise, or (b) ownership of more than
  fifty percent (50%) of the outstanding shares or beneficial
  ownership of such entity.

2. License Grants.

  2.1. The Initial Developer Grant.

  Conditioned upon Your compliance with Section 3.1 below and subject
  to third party intellectual property claims, the Initial Developer
```

```
  hereby grants You a world-wide, royalty-free, non-exclusive license:

  (a) under intellectual property rights (other than patent or
  trademark) Licensable by Initial Developer, to use, reproduce,
  modify, display, perform, sublicense and distribute the Original
  Software (or portions thereof), with or without Modifications,
  and/or as part of a Larger Work; and

  (b) under Patent Claims infringed by the making, using or selling of
  Original Software, to make, have made, use, practice, sell, and
  offer for sale, and/or otherwise dispose of the Original Software
  (or portions thereof).

  (c) The licenses granted in Sections 2.1(a) and (b) are effective on
  the date Initial Developer first distributes or otherwise makes the
  Original Software available to a third party under the terms of this
  License.

  (d) Notwithstanding Section 2.1(b) above, no patent license is
  granted: (1) for code that You delete from the Original Software, or
  (2) for infringements caused by: (i) the modification of the
  Original Software, or (ii) the combination of the Original Software
  with other software or devices.

  2.2. Contributor Grant.

  Conditioned upon Your compliance with Section 3.1 below and subject
  to third party intellectual property claims, each Contributor hereby
  grants You a world-wide, royalty-free, non-exclusive license:

  (a) under intellectual property rights (other than patent or
  trademark) Licensable by Contributor to use, reproduce, modify,
  display, perform, sublicense and distribute the Modifications
  created by such Contributor (or portions thereof), either on an
  unmodified basis, with other Modifications, as Covered Software
  and/or as part of a Larger Work; and

  (b) under Patent Claims infringed by the making, using, or selling
  of Modifications made by that Contributor either alone and/or in
  combination with its Contributor Version (or portions of such
  combination), to make, use, sell, offer for sale, have made, and/or
  otherwise dispose of: (1) Modifications made by that Contributor (or
  portions thereof); and (2) the combination of Modifications made by
  that Contributor with its Contributor Version (or portions of such
  combination).

  (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
  on the date Contributor first distributes or otherwise makes the
  Modifications available to a third party.

  (d) Notwithstanding Section 2.2(b) above, no patent license is
  granted: (1) for any code that Contributor has deleted from the
  Contributor Version; (2) for infringements caused by: (i) third
  party modifications of Contributor Version, or (ii) the combination
  of Modifications made by that Contributor with other software
  (except as part of the Contributor Version) or other devices; or (3)
  under Patent Claims infringed by Covered Software in the absence of
  Modifications made by that Contributor.

3. Distribution Obligations.

  3.1. Availability of Source Code.

  Any Covered Software that You distribute or otherwise make available
```

```
in Executable form must also be made available in Source Code form
and that Source Code form must be distributed only under the terms
of this License. You must include a copy of this License with every
copy of the Source Code form of the Covered Software You distribute
or otherwise make available. You must inform recipients of any such
Covered Software in Executable form as to how they can obtain such
Covered Software in Source Code form in a reasonable manner on or
through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are
governed by the terms of this License. You represent that You
believe Your Modifications are Your original creation(s) and/or You
have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that
identifies You as the Contributor of the Modification. You may not
remove or alter any copyright, patent or trademark notices contained
within the Covered Software, or any notices of licensing or any
descriptive text giving attribution to any Contributor or the
Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in
Source Code form that alters or restricts the applicable version of
this License or the recipients' rights hereunder. You may choose to
offer, and to charge a fee for, warranty, support, indemnity or
liability obligations to one or more recipients of Covered Software.
However, you may do so only on Your own behalf, and not on behalf of
the Initial Developer or any Contributor. You must make it
absolutely clear that any such warranty, support, indemnity or
liability obligation is offered by You alone, and You hereby agree
to indemnify the Initial Developer and every Contributor for any
liability incurred by the Initial Developer or such Contributor as a
result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under
the terms of this License or under the terms of a license of Your
choice, which may contain terms different from this License,
provided that You are in compliance with the terms of this License
and that the license for the Executable form does not attempt to
limit or alter the recipient's rights in the Source Code form from
the rights set forth in this License. If You distribute the Covered
Software in Executable form under a different license, You must make
it absolutely clear that any terms which differ from this License
are offered by You alone, not by the Initial Developer or
Contributor. You hereby agree to indemnify the Initial Developer and
every Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with
other code not governed by the terms of this License and distribute
the Larger Work as a single product. In such a case, You must make
sure the requirements of this License are fulfilled for the Covered
Software.
```

```
4. Versions of the License.

  4.1. New Versions.

  Oracle is the initial license steward and may publish revised and/or
  new versions of this License from time to time. Each version will be
  given a distinguishing version number. Except as provided in Section
  4.3, no one other than the license steward has the right to modify
  this License.

  4.2. Effect of New Versions.

  You may always continue to use, distribute or otherwise make the
  Covered Software available under the terms of the version of the
  License under which You originally received the Covered Software. If
  the Initial Developer includes a notice in the Original Software
  prohibiting it from being distributed or otherwise made available
  under any subsequent version of the License, You must distribute and
  make the Covered Software available under the terms of the version
  of the License under which You originally received the Covered
  Software. Otherwise, You may also choose to use, distribute or
  otherwise make the Covered Software available under the terms of any
  subsequent version of the License published by the license steward.

  4.3. Modified Versions.

  When You are an Initial Developer and You want to create a new
  license for Your Original Software, You may create and use a
  modified version of this License if You: (a) rename the license and
  remove any references to the name of the license steward (except to
  note that the license differs from this License); and (b) otherwise
  make it clear that the license contains terms which differ from this
  License.

5. DISCLAIMER OF WARRANTY.

  COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
  WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
  INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
  IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
  NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
  THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
  DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
  OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
  REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
  ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
  AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

  6.1. This License and the rights granted hereunder will terminate
  automatically if You fail to comply with terms herein and fail to
  cure such breach within 30 days of becoming aware of the breach.
  Provisions which, by their nature, must remain in effect beyond the
  termination of this License shall survive.

  6.2. If You assert a patent infringement claim (excluding
  declaratory judgment actions) against Initial Developer or a
  Contributor (the Initial Developer or Contributor against whom You
  assert such claim is referred to as "Participant") alleging that the
  Participant Software (meaning the Contributor Version where the
  Participant is a Contributor or the Original Software where the
  Participant is the Initial Developer) directly or indirectly
  infringes any patent, then any and all rights granted directly or
```

```
  indirectly to You by such Participant, the Initial Developer (if the
  Initial Developer is not the Participant) and all Contributors under
  Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
  from Participant terminate prospectively and automatically at the
  expiration of such 60 day notice period, unless if within such 60
  day period You withdraw Your claim with respect to the Participant
  Software against such Participant either unilaterally or pursuant to
  a written agreement with Participant.

  6.3. If You assert a patent infringement claim against Participant
  alleging that the Participant Software directly or indirectly
  infringes any patent where such claim is resolved (such as by
  license or settlement) prior to the initiation of patent
  infringement litigation, then the reasonable value of the licenses
  granted by such Participant under Sections 2.1 or 2.2 shall be taken
  into account in determining the amount or value of any payment or
  license.

  6.4. In the event of termination under Sections 6.1 or 6.2 above,
  all end user licenses that have been validly granted by You or any
  distributor hereunder prior to termination (excluding licenses
  granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

  UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
  (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
  INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
  COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
  TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
  CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
  LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
  FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
  LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
  POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
  APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
  PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
  LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
  LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
  AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

  The Covered Software is a "commercial item," as that term is defined
  in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
  software" (as that term is defined at 48 C.F.R. §
  252.227-7014(a)(1)) and "commercial computer software documentation"
  as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
  with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
  (June 1995), all U.S. Government End Users acquire Covered Software
  with only those rights set forth herein. This U.S. Government Rights
  clause is in lieu of, and supersedes, any other FAR, DFAR, or other
  clause or provision that addresses Government rights in computer
  software under this License.

9. MISCELLANEOUS.

  This License represents the complete agreement concerning subject
  matter hereof. If any provision of this License is held to be
  unenforceable, such provision shall be reformed only to the extent
  necessary to make it enforceable. This License shall be governed by
  the law of the jurisdiction specified in a notice contained within
  the Original Software (except to the extent applicable law, if any,
  provides otherwise), excluding such jurisdiction's conflict-of-law
```

```
  provisions. Any litigation relating to this License shall be subject
  to the jurisdiction of the courts located in the jurisdiction and
  venue specified in a notice contained within the Original Software,
  with the losing party responsible for costs, including, without
  limitation, court costs and reasonable attorneys' fees and expenses.
  The application of the United Nations Convention on Contracts for
  the International Sale of Goods is expressly excluded. Any law or
  regulation which provides that the language of a contract shall be
  construed against the drafter shall not apply to this License. You
  agree that You alone are responsible for compliance with the United
  States export administration regulations (and the export control
  laws and regulation of any other countries) when You use, distribute
  or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

  As between Initial Developer and the Contributors, each party is
  responsible for claims and damages arising, directly or indirectly,
  out of its utilization of rights under this License and You agree to
  work with Initial Developer and Contributors to distribute such
  responsibility on an equitable basis. Nothing herein is intended or
  shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
 LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.

==================================================================

GPL 2

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
```

```
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
```

```
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
```

```
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.
```

```
This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
```

```
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."

You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
```

```
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.

====================================================

LGPL 2.1

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

Preamble
```

```
The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.
```

```
We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
```

```
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices stating
 that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no charge to
 all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a table
 of data to be supplied by an application program that uses the facility,
 other than as an argument passed when the facility is invoked, then you
 must make a good faith effort to ensure that, in the event an application
 does not supply such function or table, the facility still operates, and
 performs whatever part of its purpose remains meaningful.

    (For example, a function in a library to compute square roots has a
 purpose that is entirely well-defined independent of the application.
 Therefore, Subsection 2d requires that any application-supplied function or
 table used by this function must be optional: if the application does not
 supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.
```

```
Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:
```

```
    a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
    b) Use a suitable shared library mechanism for linking with the Library.
 A suitable mechanism is one that (1) uses at run time a copy of the
 library already present on the user's computer system, rather than copying
 library functions into the executable, and (2) will operate properly with
 a modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
    c) Accompany the work with a written offer, valid for at least three
 years, to give the same user the materials specified in Subsection 6a,
 above, for a charge no more than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
    e) Verify that the user has already received a copy of these materials
 or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

    a) Accompany the combined library with a copy of the same work based
 on the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
    b) Give prominent notice with the combined library of the fact that
 part of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
```

```
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.
```

```
14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS


==============================================

Creative Commons 1.0

     CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
 LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-
CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-
IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS
 DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS
 LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE
 INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
 exclusive Copyright and Related Rights (defined below) upon the creator
 and subsequent owner(s) (each and all, an "owner") of an original work of
 authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the
 purpose of contributing to a commons of creative, cultural and scientific
 works ("Commons") that the public can reliably and without fear of later
 claims of infringement build upon, modify, incorporate in other works,
 reuse and redistribute as freely as possible in any form whatsoever and
 for any purposes, including without limitation commercial purposes. These
 owners may contribute to the Commons to promote the ideal of a free culture
 and the further production of creative, cultural and scientific works, or
 to gain reputation or greater distribution for their Work in part through
 the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of additional consideration or compensation, the person associating CC0
```

```
 with a Work (the "Affirmer"), to the extent that he or she is an owner
 of Copyright and Related Rights in the Work, voluntarily elects to apply
 CC0 to the Work and publicly distribute the Work under its terms, with
 knowledge of his or her Copyright and Related Rights in the Work and the
 meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
 protected by copyright and related or neighboring rights ("Copyright and
 Related Rights"). Copyright and Related Rights include, but are not limited
 to, the following:

    the right to reproduce, adapt, distribute, perform, display,
 communicate, and translate a Work;
    moral rights retained by the original author(s) and/or performer(s);
    publicity and privacy rights pertaining to a person's image or likeness
 depicted in a Work;
    rights protecting against unfair competition in regards to a Work,
 subject to the limitations in paragraph 4(a), below;
    rights protecting the extraction, dissemination, use and reuse of data
 in a Work;
    database rights (such as those arising under Directive 96/9/EC of
 the European Parliament and of the Council of 11 March 1996 on the legal
 protection of databases, and under any national implementation thereof,
 including any amended or successor version of such directive); and
    other similar, equivalent or corresponding rights throughout the
 world based on applicable law or treaty, and any national implementations
 thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of,
 applicable law, Affirmer hereby overtly, fully, permanently, irrevocably
 and unconditionally waives, abandons, and surrenders all of Affirmer's
 Copyright and Related Rights and associated claims and causes of action,
 whether now known or unknown (including existing as well as future claims
 and causes of action), in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "Waiver").
 Affirmer makes the Waiver for the benefit of each member of the public
 at large and to the detriment of Affirmer's heirs and successors, fully
 intending that such Waiver shall not be subject to revocation, rescission,
 cancellation, termination, or any other legal or equitable action to
 disrupt the quiet enjoyment of the Work by the public as contemplated by
 Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
 be judged legally invalid or ineffective under applicable law, then the
 Waiver shall be preserved to the maximum extent permitted taking into
 account Affirmer's express Statement of Purpose. In addition, to the
 extent the Waiver is so judged Affirmer hereby grants to each affected
 person a royalty-free, non transferable, non sublicensable, non exclusive,
 irrevocable and unconditional license to exercise Affirmer's Copyright
 and Related Rights in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "License").
 The License shall be deemed effective as of the date CC0 was applied by
 Affirmer to the Work. Should any part of the License for any reason be
 judged legally invalid or ineffective under applicable law, such partial
 invalidity or ineffectiveness shall not invalidate the remainder of the
 License, and in such case Affirmer hereby affirms that he or she will
 not (i) exercise any of his or her remaining Copyright and Related Rights
 in the Work or (ii) assert any associated claims and causes of action
```

```
 with respect to the Work, in either case contrary to Affirmer's express
 Statement of Purpose.

4. Limitations and Disclaimers.

    No trademark or patent rights held by Affirmer are waived, abandoned,
 surrendered, licensed or otherwise affected by this document.
    Affirmer offers the Work as-is and makes no representations or
 warranties of any kind concerning the Work, express, implied, statutory
 or otherwise, including without limitation warranties of title,
 merchantability, fitness for a particular purpose, non infringement, or the
 absence of latent or other defects, accuracy, or the present or absence of
 errors, whether or not discoverable, all to the greatest extent permissible
 under applicable law.
    Affirmer disclaims responsibility for clearing rights of other persons
 that may apply to the Work or any use thereof, including without limitation
 any person's Copyright and Related Rights in the Work. Further, Affirmer
 disclaims responsibility for obtaining any necessary consents, permissions
 or other rights required for any use of the Work.
    Affirmer understands and acknowledges that Creative Commons is not a
 party to this document and has no duty or obligation with respect to this
 CC0 or use of the Work.


==================================================

GPL 3.0

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license
 document, but changing it is not allowed.
Preamble

The GNU General Public License is a free, copyleft license for software and
 other kinds of works.

The licenses for most software and other practical works are designed to
 take away your freedom to share and change the works. By contrast, the GNU
 General Public License is intended to guarantee your freedom to share and
 change all versions of a program--to make sure it remains free software
 for all its users. We, the Free Software Foundation, use the GNU General
 Public License for most of our software; it applies also to any other work
 released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
 General Public Licenses are designed to make sure that you have the freedom
 to distribute copies of free software (and charge for them if you wish),
 that you receive source code or can get it if you want it, that you can
 change the software or use pieces of it in new free programs, and that you
 know you can do these things.

To protect your rights, we need to prevent others from denying you these
 rights or asking you to surrender the rights. Therefore, you have certain
 responsibilities if you distribute copies of the software, or if you modify
 it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or
 for a fee, you must pass on to the recipients the same freedoms that you
```

```
 received. You must make sure that they, too, receive or can get the source
 code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1)
 assert copyright on the software, and (2) offer you this License giving you
 legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that
 there is no warranty for this free software. For both users' and authors'
 sake, the GPL requires that modified versions be marked as changed, so that
 their problems will not be attributed erroneously to authors of previous
 versions.

Some devices are designed to deny users access to install or run modified
 versions of the software inside them, although the manufacturer can do
 so. This is fundamentally incompatible with the aim of protecting users'
 freedom to change the software. The systematic pattern of such abuse occurs
 in the area of products for individuals to use, which is precisely where
 it is most unacceptable. Therefore, we have designed this version of the
 GPL to prohibit the practice for those products. If such problems arise
 substantially in other domains, we stand ready to extend this provision
 to those domains in future versions of the GPL, as needed to protect the
 freedom of users.

Finally, every program is threatened constantly by software patents. States
 should not allow patents to restrict development and use of software
 on general-purpose computers, but in those that do, we wish to avoid
 the special danger that patents applied to a free program could make it
 effectively proprietary. To prevent this, the GPL assures that patents
 cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification
 follow.
TERMS AND CONDITIONS
0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of
 works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License.
 Each licensee is addressed as “you”. “Licensees” and “recipients” may be
 individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a
 fashion requiring copyright permission, other than the making of an exact
 copy. The resulting work is called a “modified version” of the earlier work
 or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the
 Program.

To “propagate” a work means to do anything with it that, without permission,
 would make you directly or secondarily liable for infringement under
 applicable copyright law, except executing it on a computer or modifying a
 private copy. Propagation includes copying, distribution (with or without
 modification), making available to the public, and in some countries other
 activities as well.

To “convey” a work means any kind of propagation that enables other parties
 to make or receive copies. Mere interaction with a user through a computer
 network, with no transfer of a copy, is not conveying.
```

```
An interactive user interface displays “Appropriate Legal Notices” to the
 extent that it includes a convenient and prominently visible feature that
 (1) displays an appropriate copyright notice, and (2) tells the user that
 there is no warranty for the work (except to the extent that warranties are
 provided), that licensees may convey the work under this License, and how
 to view a copy of this License. If the interface presents a list of user
 commands or options, such as a menu, a prominent item in the list meets
 this criterion.
1. Source Code.

The “source code” for a work means the preferred form of the work for making
 modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official
 standard defined by a recognized standards body, or, in the case of
 interfaces specified for a particular programming language, one that is
 widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than
 the work as a whole, that (a) is included in the normal form of packaging
 a Major Component, but which is not part of that Major Component, and (b)
 serves only to enable use of the work with that Major Component, or to
 implement a Standard Interface for which an implementation is available
 to the public in source code form. A “Major Component”, in this context,
 means a major essential component (kernel, window system, and so on) of the
 specific operating system (if any) on which the executable work runs, or
 a compiler used to produce the work, or an object code interpreter used to
 run it.

The “Corresponding Source” for a work in object code form means all the
 source code needed to generate, install, and (for an executable work) run
 the object code and to modify the work, including scripts to control those
 activities. However, it does not include the work's System Libraries, or
 general-purpose tools or generally available free programs which are used
 unmodified in performing those activities but which are not part of the
 work. For example, Corresponding Source includes interface definition files
 associated with source files for the work, and the source code for shared
 libraries and dynamically linked subprograms that the work is specifically
 designed to require, such as by intimate data communication or control flow
 between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate
 automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.
2. Basic Permissions.

All rights granted under this License are granted for the term of copyright
 on the Program, and are irrevocable provided the stated conditions are
 met. This License explicitly affirms your unlimited permission to run
 the unmodified Program. The output from running a covered work is covered
 by this License only if the output, given its content, constitutes a
 covered work. This License acknowledges your rights of fair use or other
 equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey,
 without conditions so long as your license otherwise remains in force.
 You may convey covered works to others for the sole purpose of having them
 make modifications exclusively for you, or provide you with facilities
 for running those works, provided that you comply with the terms of
 this License in conveying all material for which you do not control
 copyright. Those thus making or running the covered works for you must do
 so exclusively on your behalf, under your direction and control, on terms
```

```
 that prohibit them from making any copies of your copyrighted material
 outside their relationship with you.

Conveying under any other circumstances is permitted solely under the
 conditions stated below. Sublicensing is not allowed; section 10 makes it
 unnecessary.
3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure
 under any applicable law fulfilling obligations under article 11 of
 the WIPO copyright treaty adopted on 20 December 1996, or similar laws
 prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid
 circumvention of technological measures to the extent such circumvention
 is effected by exercising rights under this License with respect to
 the covered work, and you disclaim any intention to limit operation or
 modification of the work as a means of enforcing, against the work's
 users, your or third parties' legal rights to forbid circumvention of
 technological measures.
4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive
 it, in any medium, provided that you conspicuously and appropriately
 publish on each copy an appropriate copyright notice; keep intact all
 notices stating that this License and any non-permissive terms added in
 accord with section 7 apply to the code; keep intact all notices of the
 absence of any warranty; and give all recipients a copy of this License
 along with the Program.

You may charge any price or no price for each copy that you convey, and you
 may offer support or warranty protection for a fee.
5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce
 it from the Program, in the form of source code under the terms of section
 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified it,
 and giving a relevant date.
    b) The work must carry prominent notices stating that it is released
 under this License and any conditions added under section 7. This
 requirement modifies the requirement in section 4 to “keep intact all
 notices”.
    c) You must license the entire work, as a whole, under this License to
 anyone who comes into possession of a copy. This License will therefore
 apply, along with any applicable section 7 additional terms, to the whole
 of the work, and all its parts, regardless of how they are packaged. This
 License gives no permission to license the work in any other way, but it
 does not invalidate such permission if you have separately received it.
    d) If the work has interactive user interfaces, each must display
 Appropriate Legal Notices; however, if the Program has interactive
 interfaces that do not display Appropriate Legal Notices, your work need
 not make them do so.

A compilation of a covered work with other separate and independent works,
 which are not by their nature extensions of the covered work, and which
 are not combined with it such as to form a larger program, in or on a
 volume of a storage or distribution medium, is called an “aggregate” if the
 compilation and its resulting copyright are not used to limit the access
 or legal rights of the compilation's users beyond what the individual works
 permit. Inclusion of a covered work in an aggregate does not cause this
 License to apply to the other parts of the aggregate.
6. Conveying Non-Source Forms.
```

```
You may convey a covered work in object code form under the terms of
 sections 4 and 5, provided that you also convey the machine-readable
 Corresponding Source under the terms of this License, in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
 (including a physical distribution medium), accompanied by the
 Corresponding Source fixed on a durable physical medium customarily used
 for software interchange.
    b) Convey the object code in, or embodied in, a physical product
 (including a physical distribution medium), accompanied by a written
 offer, valid for at least three years and valid for as long as you offer
 spare parts or customer support for that product model, to give anyone who
 possesses the object code either (1) a copy of the Corresponding Source
 for all the software in the product that is covered by this License, on
 a durable physical medium customarily used for software interchange, for
 a price no more than your reasonable cost of physically performing this
 conveying of source, or (2) access to copy the Corresponding Source from a
 network server at no charge.
    c) Convey individual copies of the object code with a copy of the
 written offer to provide the Corresponding Source. This alternative is
 allowed only occasionally and noncommercially, and only if you received the
 object code with such an offer, in accord with subsection 6b.
    d) Convey the object code by offering access from a designated place
 (gratis or for a charge), and offer equivalent access to the Corresponding
 Source in the same way through the same place at no further charge. You
 need not require recipients to copy the Corresponding Source along with
 the object code. If the place to copy the object code is a network server,
 the Corresponding Source may be on a different server (operated by you or
 a third party) that supports equivalent copying facilities, provided you
 maintain clear directions next to the object code saying where to find the
 Corresponding Source. Regardless of what server hosts the Corresponding
 Source, you remain obligated to ensure that it is available for as long as
 needed to satisfy these requirements.
    e) Convey the object code using peer-to-peer transmission, provided you
 inform other peers where the object code and Corresponding Source of the
 work are being offered to the general public at no charge under subsection
 6d.

A separable portion of the object code, whose source code is excluded from
 the Corresponding Source as a System Library, need not be included in
 conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
 tangible personal property which is normally used for personal, family,
 or household purposes, or (2) anything designed or sold for incorporation
 into a dwelling. In determining whether a product is a consumer product,
 doubtful cases shall be resolved in favor of coverage. For a particular
 product received by a particular user, "normally used" refers to a typical
 or common use of that class of product, regardless of the status of the
 particular user or of the way in which the particular user actually uses,
 or expects or is expected to use, the product. A product is a consumer
 product regardless of whether the product has substantial commercial,
 industrial or non-consumer uses, unless such uses represent the only
 significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures,
 authorization keys, or other information required to install and execute
 modified versions of a covered work in that User Product from a modified
 version of its Corresponding Source. The information must suffice to ensure
 that the continued functioning of the modified object code is in no case
 prevented or interfered with solely because modification has been made.
```

```
If you convey an object code work under this section in, or with, or
 specifically for use in, a User Product, and the conveying occurs as part
 of a transaction in which the right of possession and use of the User
 Product is transferred to the recipient in perpetuity or for a fixed term
 (regardless of how the transaction is characterized), the Corresponding
 Source conveyed under this section must be accompanied by the Installation
 Information. But this requirement does not apply if neither you nor any
 third party retains the ability to install modified object code on the User
 Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a
 requirement to continue to provide support service, warranty, or updates
 for a work that has been modified or installed by the recipient, or for
 the User Product in which it has been modified or installed. Access to a
 network may be denied when the modification itself materially and adversely
 affects the operation of the network or violates the rules and protocols
 for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in
 accord with this section must be in a format that is publicly documented
 (and with an implementation available to the public in source code form),
 and must require no special password or key for unpacking, reading or
 copying.
7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License
 by making exceptions from one or more of its conditions. Additional
 permissions that are applicable to the entire Program shall be treated
 as though they were included in this License, to the extent that they are
 valid under applicable law. If additional permissions apply only to part of
 the Program, that part may be used separately under those permissions, but
 the entire Program remains governed by this License without regard to the
 additional permissions.

When you convey a copy of a covered work, you may at your option remove any
 additional permissions from that copy, or from any part of it. (Additional
 permissions may be written to require their own removal in certain
 cases when you modify the work.) You may place additional permissions on
 material, added by you to a covered work, for which you have or can give
 appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add
 to a covered work, you may (if authorized by the copyright holders of that
 material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the terms
 of sections 15 and 16 of this License; or
    b) Requiring preservation of specified reasonable legal notices or
 author attributions in that material or in the Appropriate Legal Notices
 displayed by works containing it; or
    c) Prohibiting misrepresentation of the origin of that material, or
 requiring that modified versions of such material be marked in reasonable
 ways as different from the original version; or
    d) Limiting the use for publicity purposes of names of licensors or
 authors of the material; or
    e) Declining to grant rights under trademark law for use of some trade
 names, trademarks, or service marks; or
    f) Requiring indemnification of licensors and authors of that material
 by anyone who conveys the material (or modified versions of it) with
 contractual assumptions of liability to the recipient, for any liability
 that these contractual assumptions directly impose on those licensors and
 authors.
```

```
All other non-permissive additional terms are considered “further
 restrictions” within the meaning of section 10. If the Program as you
 received it, or any part of it, contains a notice stating that it is
 governed by this License along with a term that is a further restriction,
 you may remove that term. If a license document contains a further
 restriction but permits relicensing or conveying under this License, you
 may add to a covered work material governed by the terms of that license
 document, provided that the further restriction does not survive such
 relicensing or conveying.

If you add terms to a covered work in accord with this section, you must
 place, in the relevant source files, a statement of the additional terms
 that apply to those files, or a notice indicating where to find the
 applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
 form of a separately written license, or stated as exceptions; the above
 requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided
 under this License. Any attempt otherwise to propagate or modify it is
 void, and will automatically terminate your rights under this License
 (including any patent licenses granted under the third paragraph of section
 11).

However, if you cease all violation of this License, then your license from
 a particular copyright holder is reinstated (a) provisionally, unless and
 until the copyright holder explicitly and finally terminates your license,
 and (b) permanently, if the copyright holder fails to notify you of the
 violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated
 permanently if the copyright holder notifies you of the violation by
 some reasonable means, this is the first time you have received notice of
 violation of this License (for any work) from that copyright holder, and
 you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the
 licenses of parties who have received copies or rights from you under
 this License. If your rights have been terminated and not permanently
 reinstated, you do not qualify to receive new licenses for the same
 material under section 10.
9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a
 copy of the Program. Ancillary propagation of a covered work occurring
 solely as a consequence of using peer-to-peer transmission to receive a
 copy likewise does not require acceptance. However, nothing other than
 this License grants you permission to propagate or modify any covered
 work. These actions infringe copyright if you do not accept this License.
 Therefore, by modifying or propagating a covered work, you indicate your
 acceptance of this License to do so.
10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives
 a license from the original licensors, to run, modify and propagate that
 work, subject to this License. You are not responsible for enforcing
 compliance by third parties with this License.

An “entity transaction” is a transaction transferring control of an
 organization, or substantially all assets of one, or subdividing an
 organization, or merging organizations. If propagation of a covered work
 results from an entity transaction, each party to that transaction who
```

```
 receives a copy of the work also receives whatever licenses to the work
 the party's predecessor in interest had or could give under the previous
 paragraph, plus a right to possession of the Corresponding Source of the
 work from the predecessor in interest, if the predecessor has it or can get
 it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights
 granted or affirmed under this License. For example, you may not impose a
 license fee, royalty, or other charge for exercise of rights granted under
 this License, and you may not initiate litigation (including a cross-claim
 or counterclaim in a lawsuit) alleging that any patent claim is infringed
 by making, using, selling, offering for sale, or importing the Program or
 any portion of it.
11. Patents.

A “contributor” is a copyright holder who authorizes use under this License
 of the Program or a work on which the Program is based. The work thus
 licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned
 or controlled by the contributor, whether already acquired or hereafter
 acquired, that would be infringed by some manner, permitted by this
 License, of making, using, or selling its contributor version, but do not
 include claims that would be infringed only as a consequence of further
 modification of the contributor version. For purposes of this definition,
 “control” includes the right to grant patent sublicenses in a manner
 consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent
 license under the contributor's essential patent claims, to make, use,
 sell, offer for sale, import and otherwise run, modify and propagate the
 contents of its contributor version.

In the following three paragraphs, a “patent license” is any express
 agreement or commitment, however denominated, not to enforce a patent (such
 as an express permission to practice a patent or covenant not to sue for
 patent infringement). To “grant” such a patent license to a party means to
 make such an agreement or commitment not to enforce a patent against the
 party.

If you convey a covered work, knowingly relying on a patent license, and the
 Corresponding Source of the work is not available for anyone to copy, free
 of charge and under the terms of this License, through a publicly available
 network server or other readily accessible means, then you must either
 (1) cause the Corresponding Source to be so available, or (2) arrange to
 deprive yourself of the benefit of the patent license for this particular
 work, or (3) arrange, in a manner consistent with the requirements of this
 License, to extend the patent license to downstream recipients. “Knowingly
 relying” means you have actual knowledge that, but for the patent license,
 your conveying the covered work in a country, or your recipient's use of
 the covered work in a country, would infringe one or more identifiable
 patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement,
 you convey, or propagate by procuring conveyance of, a covered work, and
 grant a patent license to some of the parties receiving the covered work
 authorizing them to use, propagate, modify or convey a specific copy of the
 covered work, then the patent license you grant is automatically extended
 to all recipients of the covered work and works based on it.

A patent license is “discriminatory” if it does not include within the scope
 of its coverage, prohibits the exercise of, or is conditioned on the non-
exercise of one or more of the rights that are specifically granted under
 this License. You may not convey a covered work if you are a party to an
```

```
 arrangement with a third party that is in the business of distributing
 software, under which you make payment to the third party based on the
 extent of your activity of conveying the work, and under which the third
 party grants, to any of the parties who would receive the covered work from
 you, a discriminatory patent license (a) in connection with copies of the
 covered work conveyed by you (or copies made from those copies), or (b)
 primarily for and in connection with specific products or compilations that
 contain the covered work, unless you entered into that arrangement, or that
 patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any
 implied license or other defenses to infringement that may otherwise be
 available to you under applicable patent law.
12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot convey a
 covered work so as to satisfy simultaneously your obligations under this
 License and any other pertinent obligations, then as a consequence you may
 not convey it at all. For example, if you agree to terms that obligate you
 to collect a royalty for further conveying from those to whom you convey
 the Program, the only way you could satisfy both those terms and this
 License would be to refrain entirely from conveying the Program.
13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to
 link or combine any covered work with a work licensed under version 3 of
 the GNU Affero General Public License into a single combined work, and to
 convey the resulting work. The terms of this License will continue to apply
 to the part which is the covered work, but the special requirements of
 the GNU Affero General Public License, section 13, concerning interaction
 through a network will apply to the combination as such.
14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
 the GNU General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Program
 specifies that a certain numbered version of the GNU General Public License
 "or any later version" applies to it, you have the option of following
 the terms and conditions either of that numbered version or of any later
 version published by the Free Software Foundation. If the Program does not
 specify a version number of the GNU General Public License, you may choose
 any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of
 the GNU General Public License can be used, that proxy's public statement
 of acceptance of a version permanently authorizes you to choose that
 version for the Program.

Later license versions may give you additional or different permissions.
 However, no additional obligations are imposed on any author or copyright
 holder as a result of your choosing to follow a later version.
15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE
 LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
 OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
 EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
 ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.
```

```
 SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY
 SERVICING, REPAIR OR CORRECTION.
16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
 ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE
 PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
 GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
 USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
 DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
 PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
 EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
 SUCH DAMAGES.
17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above
 cannot be given local legal effect according to their terms, reviewing
 courts shall apply local law that most closely approximates an absolute
 waiver of all civil liability in connection with the Program, unless a
 warranty or assumption of liability accompanies a copy of the Program in
 return for a fee.

END OF TERMS AND CONDITIONS

============================================================

MPL 1.1

Mozilla Public License Version 1.1
1. Definitions.

1.0.1. "Commercial Use"
    means distribution or otherwise making the Covered Code available to a
 third party.
1.1. "Contributor"
    means each entity that creates or contributes to the creation of
 Modifications.
1.2. "Contributor Version"
    means the combination of the Original Code, prior Modifications used by
 a Contributor, and the Modifications made by that particular Contributor.
1.3. "Covered Code"
    means the Original Code or Modifications or the combination of the
 Original Code and Modifications, in each case including portions thereof.
1.4. "Electronic Distribution Mechanism"
    means a mechanism generally accepted in the software development
 community for the electronic transfer of data.
1.5. "Executable"
    means Covered Code in any form other than Source Code.
1.6. "Initial Developer"
    means the individual or entity identified as the Initial Developer in
 the Source Code notice required by Exhibit A.
1.7. "Larger Work"
    means a work which combines Covered Code or portions thereof with code
 not governed by the terms of this License.
1.8. "License"
    means this document.
1.8.1. "Licensable"
    means having the right to grant, to the maximum extent possible, whether
 at the time of the initial grant or subsequently acquired, any and all of
 the rights conveyed herein.
1.9. "Modifications"
```

```
    means any addition to or deletion from the substance or structure of
 either the Original Code or any previous Modifications. When Covered Code
 is released as a series of files, a Modification is:

        Any addition to or deletion from the contents of a file containing
 Original Code or previous Modifications.
        Any new file that contains any part of the Original Code or previous
 Modifications.

1.10. "Original Code"
    means Source Code of computer software code which is described in the
 Source Code notice required by Exhibit A as Original Code, and which, at
 the time of its release under this License is not already Covered Code
 governed by this License.
1.10.1. "Patent Claims"
    means any patent claim(s), now owned or hereafter acquired, including
 without limitation, method, process, and apparatus claims, in any patent
 Licensable by grantor.
1.11. "Source Code"
    means the preferred form of the Covered Code for making modifications
 to it, including all modules it contains, plus any associated interface
 definition files, scripts used to control compilation and installation
 of an Executable, or source code differential comparisons against either
 the Original Code or another well known, available Covered Code of the
 Contributor's choice. The Source Code can be in a compressed or archival
 form, provided the appropriate decompression or de-archiving software is
 widely available for no charge.
1.12. "You" (or "Your")
    means an individual or a legal entity exercising rights under, and
 complying with all of the terms of, this License or a future version of
 this License issued under Section 6.1. For legal entities, "You" includes
 any entity which controls, is controlled by, or is under common control
 with You. For purposes of this definition, "control" means (a) the power,
 direct or indirect, to cause the direction or management of such entity,
 whether by contract or otherwise, or (b) ownership of more than fifty
 percent (50%) of the outstanding shares or beneficial ownership of such
 entity.

2. Source Code License.
2.1. The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive license, subject to third party intellectual property claims:

    under intellectual property rights (other than patent or trademark)
 Licensable by Initial Developer to use, reproduce, modify, display,
 perform, sublicense and distribute the Original Code (or portions thereof)
 with or without Modifications, and/or as part of a Larger Work; and
    under Patents Claims infringed by the making, using or selling of
 Original Code, to make, have made, use, practice, sell, and offer for sale,
 and/or otherwise dispose of the Original Code (or portions thereof).
    the licenses granted in this Section 2.1 (a) and (b) are effective on
 the date Initial Developer first distributes Original Code under the terms
 of this License.
    Notwithstanding Section 2.1 (b) above, no patent license is granted:
 1) for code that You delete from the Original Code; 2) separate from the
 Original Code; or 3) for infringements caused by: i) the modification of
 the Original Code or ii) the combination of the Original Code with other
 software or devices.

2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby
 grants You a world-wide, royalty-free, non-exclusive license
```

```
    under intellectual property rights (other than patent or trademark)
 Licensable by Contributor, to use, reproduce, modify, display, perform,
 sublicense and distribute the Modifications created by such Contributor (or
 portions thereof) either on an unmodified basis, with other Modifications,
 as Covered Code and/or as part of a Larger Work; and
    under Patent Claims infringed by the making, using, or selling of
 Modifications made by that Contributor either alone and/or in combination
 with its Contributor Version (or portions of such combination), to make,
 use, sell, offer for sale, have made, and/or otherwise dispose of: 1)
 Modifications made by that Contributor (or portions thereof); and 2) the
 combination of Modifications made by that Contributor with its Contributor
 Version (or portions of such combination).
    the licenses granted in Sections 2.2 (a) and 2.2 (b) are effective on
 the date Contributor first makes Commercial Use of the Covered Code.
    Notwithstanding Section 2.2 (b) above, no patent license is granted: 1)
 for any code that Contributor has deleted from the Contributor Version; 2)
 separate from the Contributor Version; 3) for infringements caused by: i)
 third party modifications of Contributor Version or ii) the combination of
 Modifications made by that Contributor with other software (except as part
 of the Contributor Version) or other devices; or 4) under Patent Claims
 infringed by Covered Code in the absence of Modifications made by that
 Contributor.

3. Distribution Obligations.
3.1. Application of License.

The Modifications which You create or to which You contribute are governed
 by the terms of this License, including without limitation Section 2.2.
 The Source Code version of Covered Code may be distributed only under the
 terms of this License or a future version of this License released under
 Section 6.1, and You must include a copy of this License with every copy
 of the Source Code You distribute. You may not offer or impose any terms on
 any Source Code version that alters or restricts the applicable version of
 this License or the recipients' rights hereunder. However, You may include
 an additional document offering the additional rights described in Section
 3.5.
3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made
 available in Source Code form under the terms of this License either on
 the same media as an Executable version or via an accepted Electronic
 Distribution Mechanism to anyone to whom you made an Executable version
 available; and if made available via Electronic Distribution Mechanism,
 must remain available for at least twelve (12) months after the date it
 initially became available, or at least six (6) months after a subsequent
 version of that particular Modification has been made available to such
 recipients. You are responsible for ensuring that the Source Code version
 remains available even if the Electronic Distribution Mechanism is
 maintained by a third party.
3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file
 documenting the changes You made to create that Covered Code and the date
 of any change. You must include a prominent statement that the Modification
 is derived, directly or indirectly, from Original Code provided by the
 Initial Developer and including the name of the Initial Developer in (a)
 the Source Code, and (b) in any notice in an Executable version or related
 documentation in which You describe the origin or ownership of the Covered
 Code.
3.4. Intellectual Property Matters
(a) Third Party Claims
```

```
If Contributor has knowledge that a license under a third party's
 intellectual property rights is required to exercise the rights granted
 by such Contributor under Sections 2.1 or 2.2, Contributor must include a
 text file with the Source Code distribution titled "LEGAL" which describes
 the claim and the party making the claim in sufficient detail that a
 recipient will know whom to contact. If Contributor obtains such knowledge
 after the Modification is made available as described in Section 3.2,
 Contributor shall promptly modify the LEGAL file in all copies Contributor
 makes available thereafter and shall take other steps (such as notifying
 appropriate mailing lists or newsgroups) reasonably calculated to inform
 those who received the Covered Code that new knowledge has been obtained.
(b) Contributor APIs

If Contributor's Modifications include an application programming interface
 and Contributor has knowledge of patent licenses which are reasonably
 necessary to implement that API, Contributor must also include this
 information in the legal file.
(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4
 (a) above, Contributor believes that Contributor's Modifications are
 Contributor's original creation(s) and/or Contributor has sufficient rights
 to grant the rights conveyed by this License.
3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code.
 If it is not possible to put such notice in a particular Source Code file
 due to its structure, then You must include such notice in a location (such
 as a relevant directory) where a user would be likely to look for such a
 notice. If You created one or more Modification(s) You may add your name as
 a Contributor to the notice described in Exhibit A. You must also duplicate
 this License in any documentation for the Source Code where You describe
 recipients' rights or ownership rights relating to Covered Code. You may
 choose to offer, and to charge a fee for, warranty, support, indemnity or
 liability obligations to one or more recipients of Covered Code. However,
 You may do so only on Your own behalf, and not on behalf of the Initial
 Developer or any Contributor. You must make it absolutely clear than any
 such warranty, support, indemnity or liability obligation is offered by You
 alone, and You hereby agree to indemnify the Initial Developer and every
 Contributor for any liability incurred by the Initial Developer or such
 Contributor as a result of warranty, support, indemnity or liability terms
 You offer.
3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements
 of Sections 3.1, 3.2, 3.3, 3.4 and 3.5 have been met for that Covered
 Code, and if You include a notice stating that the Source Code version of
 the Covered Code is available under the terms of this License, including
 a description of how and where You have fulfilled the obligations of
 Section 3.2. The notice must be conspicuously included in any notice
 in an Executable version, related documentation or collateral in which
 You describe recipients' rights relating to the Covered Code. You may
 distribute the Executable version of Covered Code or ownership rights
 under a license of Your choice, which may contain terms different from
 this License, provided that You are in compliance with the terms of this
 License and that the license for the Executable version does not attempt to
 limit or alter the recipient's rights in the Source Code version from the
 rights set forth in this License. If You distribute the Executable version
 under a different license You must make it absolutely clear that any terms
 which differ from this License are offered by You alone, not by the Initial
 Developer or any Contributor. You hereby agree to indemnify the Initial
 Developer and every Contributor for any liability incurred by the Initial
 Developer or such Contributor as a result of any such terms You offer.
3.7. Larger Works.
```

```
You may create a Larger Work by combining Covered Code with other code not
 governed by the terms of this License and distribute the Larger Work as a
 single product. In such a case, You must make sure the requirements of this
 License are fulfilled for the Covered Code.
4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this
 License with respect to some or all of the Covered Code due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be included
 in the legal file described in Section 3.4 and must be included with
 all distributions of the Source Code. Except to the extent prohibited by
 statute or regulation, such description must be sufficiently detailed for a
 recipient of ordinary skill to be able to understand it.
5. Application of this License.

This License applies to code to which the Initial Developer has attached the
 notice in Exhibit A and to related Covered Code.
6. Versions of the License.
6.1. New Versions

Netscape Communications Corporation ("Netscape") may publish revised and/or
 new versions of the License from time to time. Each version will be given a
 distinguishing version number.
6.2. Effect of New Versions

Once Covered Code has been published under a particular version of the
 License, You may always continue to use it under the terms of that version.
 You may also choose to use such Covered Code under the terms of any
 subsequent version of the License published by Netscape. No one other
 than Netscape has the right to modify the terms applicable to Covered Code
 created under this License.
6.3. Derivative Works

If You create or use a modified version of this License (which you may
 only do in order to apply it to code which is not already Covered Code
 governed by this License), You must (a) rename Your license so that the
 phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any
 confusingly similar phrase do not appear in your license (except to note
 that your license differs from this License) and (b) otherwise make it
 clear that Your version of the license contains terms which differ from the
 Mozilla Public License and Netscape Public License. (Filling in the name of
 the Initial Developer, Original Code or Contributor in the notice described
 in Exhibit A shall not of themselves be deemed to be modifications of this
 License.)
7. Disclaimer of warranty

Covered code is provided under this license on an "as is" basis, without
 warranty of any kind, either expressed or implied, including, without
 limitation, warranties that the covered code is free of defects,
 merchantable, fit for a particular purpose or non-infringing. The entire
 risk as to the quality and performance of the covered code is with
 you. Should any covered code prove defective in any respect, you (not
 the initial developer or any other contributor) assume the cost of any
 necessary servicing, repair or correction. This disclaimer of warranty
 constitutes an essential part of this license. No use of any covered code
 is authorized hereunder except under this disclaimer.
8. Termination

8.1. This License and the rights granted hereunder will terminate
 automatically if You fail to comply with terms herein and fail to cure such
 breach within 30 days of becoming aware of the breach. All sublicenses to
```

```
 the Covered Code which are properly granted shall survive any termination
 of this License. Provisions which, by their nature, must remain in effect
 beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim
 (excluding declatory judgment actions) against Initial Developer or a
 Contributor (the Initial Developer or Contributor against whom You file
 such action is referred to as "Participant") alleging that:

    such Participant's Contributor Version directly or indirectly infringes
 any patent, then any and all rights granted by such Participant to You
 under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
 from Participant terminate prospectively, unless if within 60 days after
 receipt of notice You either: (i) agree in writing to pay Participant
 a mutually agreeable reasonable royalty for Your past and future use of
 Modifications made by such Participant, or (ii) withdraw Your litigation
 claim with respect to the Contributor Version against such Participant. If
 within 60 days of notice, a reasonable royalty and payment arrangement are
 not mutually agreed upon in writing by the parties or the litigation claim
 is not withdrawn, the rights granted by Participant to You under Sections
 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day
 notice period specified above.
    any software, hardware, or device, other than such Participant's
 Contributor Version, directly or indirectly infringes any patent, then
 any rights granted to You by such Participant under Sections 2.1(b) and
 2.2(b) are revoked effective as of the date You first made, used, sold,
 distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging
 that such Participant's Contributor Version directly or indirectly
 infringes any patent where such claim is resolved (such as by license or
 settlement) prior to the initiation of patent infringement litigation,
 then the reasonable value of the licenses granted by such Participant under
 Sections 2.1 or 2.2 shall be taken into account in determining the amount
 or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all
 end user license agreements (excluding distributors and resellers) which
 have been validly granted by You or any distributor hereunder prior to
 termination shall survive termination.
9. Limitation of liability

Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall you, the initial developer, any
 other contributor, or any distributor of covered code, or any supplier of
 any of such parties, be liable to any person for any indirect, special,
 incidental, or consequential damages of any character including, without
 limitation, damages for loss of goodwill, work stoppage, computer failure
 or malfunction, or any and all other commercial damages or losses, even
 if such party shall have been informed of the possibility of such damages.
 This limitation of liability shall not apply to liability for death or
 personal injury resulting from such party's negligence to the extent
 applicable law prohibits such limitation. Some jurisdictions do not allow
 the exclusion or limitation of incidental or consequential damages, so this
 exclusion and limitation may not apply to you.
10. U.S. government end users

The Covered Code is a "commercial item," as that term is defined in 48
 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and
 "commercial computer software documentation," as such terms are used in 48
 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R.
 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users
 acquire Covered Code with only those rights set forth herein.
11. Miscellaneous
```

```
This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. This License shall be governed by California law provisions
 (except to the extent applicable law, if any, provides otherwise),
 excluding its conflict-of-law provisions. With respect to disputes in
 which at least one party is a citizen of, or an entity chartered or
 registered to do business in the United States of America, any litigation
 relating to this License shall be subject to the jurisdiction of the
 Federal Courts of the Northern District of California, with venue lying
 in Santa Clara County, California, with the losing party responsible for
 costs, including without limitation, court costs and reasonable attorneys'
 fees and expenses. The application of the United Nations Convention on
 Contracts for the International Sale of Goods is expressly excluded. Any
 law or regulation which provides that the language of a contract shall be
 construed against the drafter shall not apply to this License.
12. Responsibility for claims

As between Initial Developer and the Contributors, each party is responsible
 for claims and damages arising, directly or indirectly, out of its
 utilization of rights under this License and You agree to work with
 Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.
13. Multiple-licensed code

Initial Developer may designate portions of the Covered Code as "Multiple-
Licensed". "Multiple-Licensed" means that the Initial Developer permits you
 to utilize portions of the Covered Code under Your choice of the MPL or
 the alternative licenses, if any, specified by the Initial Developer in the
 file described in Exhibit A.
Exhibit A - Mozilla Public License.

"The contents of this file are subject to the Mozilla Public License
Version 1.1 (the "License"); you may not use this file except in
compliance with the License. You may obtain a copy of the License at
https://www.mozilla.org/MPL/

Software distributed under the License is distributed on an "AS IS"
basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
License for the specific language governing rights and limitations
under the License.

The Original Code is ________________________________________.

The Initial Developer of the Original Code is _________________________.
Portions created by _______________________ are Copyright (C) ______
_________________________. All Rights Reserved.

Contributor(s): ________________________________________.

Alternatively, the contents of this file may be used under the terms
of the _____ license (the  "[___] License"), in which case the
provisions of [______] License are applicable instead of those
above. If you wish to allow use of your version of this file only
under the terms of the [____] License and not to allow others to use
your version of this file under the MPL, indicate your decision by
deleting the provisions above and replace them with the notice and
other provisions required by the [___] License. If you do not delete
the provisions above, a recipient may use your version of this file
under either the MPL or the [___] License."
```

```
NOTE: The text of this Exhibit A may differ slightly from the text of the
 notices in the Source Code files of the Original Code. You should use the
 text of this Exhibit A rather than the text found in the Original Code
 Source Code for Your Modifications.


==========================================================================
```

Provider: Coda Hale / Component(s): DropWizard Metrics 4.0.5

```
dropwizard-metrics 4.0.5

COPYRIGHT: Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2017
 Dropwizard Team

LICENSE: Apache 2.0


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
```

```
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
```

```
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



-----------------------------------------------------
Modules:

docs
metrics-bom
metrics-annotation
metrics-benchmarks
metrics-core
metrics-healthchecks
metrics-ehcache
metrics-graphite
metrics-httpclient
metrics-httpasyncclient
metrics-jcache
metrics-jdbi
metrics-jdbi3
metrics-jersey2
metrics-jetty9
metrics-json
metrics-jvm
metrics-log4j2
metrics-logback
metrics-servlet
metrics-servlets
metrics-jcstress
metrics-jmx


-----------------------------------------------------
Notice File:


This product includes code derived from the JSR-166 project
 (ThreadLocalRandom, Striped64,
LongAdder), which was released with the following comments:

    Written by Doug Lea with assistance from members of JCP JSR-166
    Expert Group and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/


-----------------------------------------------------
Dependencies:

org.slf4j 1.7.25
COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
```

```
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---
assertj 3.6.2
COPYRIGHT: Copyright 2012-2018 the original author or authors.
LICENSE: Apache 2.0 https://github.com/joel-costigliola/assertj-core/blob/
master/LICENSE.md


---
mockito 2.7.12
COPYRIGHT and LICENSE:
The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
com.fasterxml.jackson.core » jackson-databind 2.9.5
COPYRIGHT: (c) fasterxml and Tatu Saloranta, tatu.saloranta@iki.fi: author
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0


---
com.rabbitmq » amqp-client 4.4.1
COPYRIGHT: Copyright (c) 2007-Present Pivotal Software, Inc.  All rights
 reserved.
LICENSE: GNU GPL v2.0 + Apache 2.0 + MPL v1.1

This package, the RabbitMQ Java client library, is triple-licensed under
the Mozilla Public License 1.1 ("MPL"), the GNU General Public License
version 2 ("GPL") and the Apache License version 2 ("ASL"). For the MPL,
```

```
please see LICENSE-MPL-RabbitMQ. For the GPL, please see LICENSE-GPL2.
For the ASL, please see LICENSE-APACHE2.

The RabbitMQ Java client library includes third-party software under the
ASL. For this license, please see LICENSE-APACHE2. For attribution of
copyright and other details of provenance, please refer to the source code.

If you have any questions regarding licensing, please contact us at
info@rabbitmq.com.


Apache 2.0 https://github.com/rabbitmq/rabbitmq-java-client/blob/v4.4.1/
LICENSE-APACHE2

--------------
     GNU GENERAL PUBLIC LICENSE
         Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
```

```
  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

      GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)
```

```
These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
```

```
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.
```

```
Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

       NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

       END OF TERMS AND CONDITIONS



------------------
                          MOZILLA PUBLIC LICENSE
                                Version 1.1

                              ---------------

1. Definitions.

     1.0.1. "Commercial Use" means distribution or otherwise making the
     Covered Code available to a third party.

     1.1. "Contributor" means each entity that creates or contributes to
     the creation of Modifications.

     1.2. "Contributor Version" means the combination of the Original
     Code, prior Modifications used by a Contributor, and the Modifications
     made by that particular Contributor.

     1.3. "Covered Code" means the Original Code or Modifications or the
     combination of the Original Code and Modifications, in each case
     including portions thereof.
```

```
     1.4. "Electronic Distribution Mechanism" means a mechanism generally
     accepted in the software development community for the electronic
     transfer of data.

     1.5. "Executable" means Covered Code in any form other than Source
     Code.

     1.6. "Initial Developer" means the individual or entity identified
     as the Initial Developer in the Source Code notice required by Exhibit
     A.

     1.7. "Larger Work" means a work which combines Covered Code or
     portions thereof with code not governed by the terms of this License.

     1.8. "License" means this document.

     1.8.1. "Licensable" means having the right to grant, to the maximum
     extent possible, whether at the time of the initial grant or
     subsequently acquired, any and all of the rights conveyed herein.

     1.9. "Modifications" means any addition to or deletion from the
     substance or structure of either the Original Code or any previous
     Modifications. When Covered Code is released as a series of files, a
     Modification is:
          A. Any addition to or deletion from the contents of a file
          containing Original Code or previous Modifications.

          B. Any new file that contains any part of the Original Code or
          previous Modifications.

     1.10. "Original Code" means Source Code of computer software code
     which is described in the Source Code notice required by Exhibit A as
     Original Code, and which, at the time of its release under this
     License is not already Covered Code governed by this License.

     1.10.1. "Patent Claims" means any patent claim(s), now owned or
     hereafter acquired, including without limitation,  method, process,
     and apparatus claims, in any patent Licensable by grantor.

     1.11. "Source Code" means the preferred form of the Covered Code for
     making modifications to it, including all modules it contains, plus
     any associated interface definition files, scripts used to control
     compilation and installation of an Executable, or source code
     differential comparisons against either the Original Code or another
     well known, available Covered Code of the Contributor's choice. The
     Source Code can be in a compressed or archival form, provided the
     appropriate decompression or de-archiving software is widely available
     for no charge.

     1.12. "You" (or "Your")  means an individual or a legal entity
     exercising rights under, and complying with all of the terms of, this
     License or a future version of this License issued under Section 6.1.
     For legal entities, "You" includes any entity which controls, is
     controlled by, or is under common control with You. For purposes of
     this definition, "control" means (a) the power, direct or indirect,
     to cause the direction or management of such entity, whether by
     contract or otherwise, or (b) ownership of more than fifty percent
     (50%) of the outstanding shares or beneficial ownership of such
     entity.

2. Source Code License.

     2.1. The Initial Developer Grant.
     The Initial Developer hereby grants You a world-wide, royalty-free,
```

```
     non-exclusive license, subject to third party intellectual property
     claims:
          (a)  under intellectual property rights (other than patent or
          trademark) Licensable by Initial Developer to use, reproduce,
          modify, display, perform, sublicense and distribute the Original
          Code (or portions thereof) with or without Modifications, and/or
          as part of a Larger Work; and

          (b) under Patents Claims infringed by the making, using or
          selling of Original Code, to make, have made, use, practice,
          sell, and offer for sale, and/or otherwise dispose of the
          Original Code (or portions thereof).

          (c) the licenses granted in this Section 2.1(a) and (b) are
          effective on the date Initial Developer first distributes
          Original Code under the terms of this License.

          (d) Notwithstanding Section 2.1(b) above, no patent license is
          granted: 1) for code that You delete from the Original Code; 2)
          separate from the Original Code;  or 3) for infringements caused
          by: i) the modification of the Original Code or ii) the
          combination of the Original Code with other software or devices.

     2.2. Contributor Grant.
     Subject to third party intellectual property claims, each Contributor
     hereby grants You a world-wide, royalty-free, non-exclusive license

          (a)  under intellectual property rights (other than patent or
          trademark) Licensable by Contributor, to use, reproduce, modify,
          display, perform, sublicense and distribute the Modifications
          created by such Contributor (or portions thereof) either on an
          unmodified basis, with other Modifications, as Covered Code
          and/or as part of a Larger Work; and

          (b) under Patent Claims infringed by the making, using, or
          selling of  Modifications made by that Contributor either alone
          and/or in combination with its Contributor Version (or portions
          of such combination), to make, use, sell, offer for sale, have
          made, and/or otherwise dispose of: 1) Modifications made by that
          Contributor (or portions thereof); and 2) the combination of
          Modifications made by that Contributor with its Contributor
          Version (or portions of such combination).

          (c) the licenses granted in Sections 2.2(a) and 2.2(b) are
          effective on the date Contributor first makes Commercial Use of
          the Covered Code.

          (d)    Notwithstanding Section 2.2(b) above, no patent license is
          granted: 1) for any code that Contributor has deleted from the
          Contributor Version; 2)  separate from the Contributor Version;
          3)  for infringements caused by: i) third party modifications of
          Contributor Version or ii)  the combination of Modifications made
          by that Contributor with other software  (except as part of the
          Contributor Version) or other devices; or 4) under Patent Claims
          infringed by Covered Code in the absence of Modifications made by
          that Contributor.

3. Distribution Obligations.

     3.1. Application of License.
     The Modifications which You create or to which You contribute are
     governed by the terms of this License, including without limitation
     Section 2.2. The Source Code version of Covered Code may be
     distributed only under the terms of this License or a future version
```

```
of this License released under Section 6.1, and You must include a
copy of this License with every copy of the Source Code You
distribute. You may not offer or impose any terms on any Source Code
version that alters or restricts the applicable version of this
License or the recipients' rights hereunder. However, You may include
an additional document offering the additional rights described in
Section 3.5.

3.2. Availability of Source Code.
Any Modification which You create or to which You contribute must be
made available in Source Code form under the terms of this License
either on the same media as an Executable version or via an accepted
Electronic Distribution Mechanism to anyone to whom you made an
Executable version available; and if made available via Electronic
Distribution Mechanism, must remain available for at least twelve (12)
months after the date it initially became available, or at least six
(6) months after a subsequent version of that particular Modification
has been made available to such recipients. You are responsible for
ensuring that the Source Code version remains available even if the
Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a
file documenting the changes You made to create that Covered Code and
the date of any change. You must include a prominent statement that
the Modification is derived, directly or indirectly, from Original
Code provided by the Initial Developer and including the name of the
Initial Developer in (a) the Source Code, and (b) in any notice in an
Executable version or related documentation in which You describe the
origin or ownership of the Covered Code.

3.4. Intellectual Property Matters
     (a) Third Party Claims.
     If Contributor has knowledge that a license under a third party's
     intellectual property rights is required to exercise the rights
     granted by such Contributor under Sections 2.1 or 2.2,
     Contributor must include a text file with the Source Code
     distribution titled "LEGAL" which describes the claim and the
     party making the claim in sufficient detail that a recipient will
     know whom to contact. If Contributor obtains such knowledge after
     the Modification is made available as described in Section 3.2,
     Contributor shall promptly modify the LEGAL file in all copies
     Contributor makes available thereafter and shall take other steps
     (such as notifying appropriate mailing lists or newsgroups)
     reasonably calculated to inform those who received the Covered
     Code that new knowledge has been obtained.

     (b) Contributor APIs.
     If Contributor's Modifications include an application programming
     interface and Contributor has knowledge of patent licenses which
     are reasonably necessary to implement that API, Contributor must
     also include this information in the LEGAL file.

          (c)    Representations.
     Contributor represents that, except as disclosed pursuant to
     Section 3.4(a) above, Contributor believes that Contributor's
     Modifications are Contributor's original creation(s) and/or
     Contributor has sufficient rights to grant the rights conveyed by
     this License.

3.5. Required Notices.
You must duplicate the notice in Exhibit A in each file of the Source
Code.  If it is not possible to put such notice in a particular Source
Code file due to its structure, then You must include such notice in a
```

```
     location (such as a relevant directory) where a user would be likely
     to look for such a notice.  If You created one or more Modification(s)
     You may add your name as a Contributor to the notice described in
     Exhibit A.  You must also duplicate this License in any documentation
     for the Source Code where You describe recipients' rights or ownership
     rights relating to Covered Code.  You may choose to offer, and to
     charge a fee for, warranty, support, indemnity or liability
     obligations to one or more recipients of Covered Code. However, You
     may do so only on Your own behalf, and not on behalf of the Initial
     Developer or any Contributor. You must make it absolutely clear than
     any such warranty, support, indemnity or liability obligation is
     offered by You alone, and You hereby agree to indemnify the Initial
     Developer and every Contributor for any liability incurred by the
     Initial Developer or such Contributor as a result of warranty,
     support, indemnity or liability terms You offer.

     3.6. Distribution of Executable Versions.
     You may distribute Covered Code in Executable form only if the
     requirements of Section 3.1-3.5 have been met for that Covered Code,
     and if You include a notice stating that the Source Code version of
     the Covered Code is available under the terms of this License,
     including a description of how and where You have fulfilled the
     obligations of Section 3.2. The notice must be conspicuously included
     in any notice in an Executable version, related documentation or
     collateral in which You describe recipients' rights relating to the
     Covered Code. You may distribute the Executable version of Covered
     Code or ownership rights under a license of Your choice, which may
     contain terms different from this License, provided that You are in
     compliance with the terms of this License and that the license for the
     Executable version does not attempt to limit or alter the recipient's
     rights in the Source Code version from the rights set forth in this
     License. If You distribute the Executable version under a different
     license You must make it absolutely clear that any terms which differ
     from this License are offered by You alone, not by the Initial
     Developer or any Contributor. You hereby agree to indemnify the
     Initial Developer and every Contributor for any liability incurred by
     the Initial Developer or such Contributor as a result of any such
     terms You offer.

     3.7. Larger Works.
     You may create a Larger Work by combining Covered Code with other code
     not governed by the terms of this License and distribute the Larger
     Work as a single product. In such a case, You must make sure the
     requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

     If it is impossible for You to comply with any of the terms of this
     License with respect to some or all of the Covered Code due to
     statute, judicial order, or regulation then You must: (a) comply with
     the terms of this License to the maximum extent possible; and (b)
     describe the limitations and the code they affect. Such description
     must be included in the LEGAL file described in Section 3.4 and must
     be included with all distributions of the Source Code. Except to the
     extent prohibited by statute or regulation, such description must be
     sufficiently detailed for a recipient of ordinary skill to be able to
     understand it.

5. Application of this License.

     This License applies to code to which the Initial Developer has
     attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.
```

```
     6.1. New Versions.
     Netscape Communications Corporation ("Netscape") may publish revised
     and/or new versions of the License from time to time. Each version
     will be given a distinguishing version number.

     6.2. Effect of New Versions.
     Once Covered Code has been published under a particular version of the
     License, You may always continue to use it under the terms of that
     version. You may also choose to use such Covered Code under the terms
     of any subsequent version of the License published by Netscape. No one
     other than Netscape has the right to modify the terms applicable to
     Covered Code created under this License.

     6.3. Derivative Works.
     If You create or use a modified version of this License (which you may
     only do in order to apply it to code which is not already Covered Code
     governed by this License), You must (a) rename Your license so that
     the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape",
     "MPL", "NPL" or any confusingly similar phrase do not appear in your
     license (except to note that your license differs from this License)
     and (b) otherwise make it clear that Your version of the license
     contains terms which differ from the Mozilla Public License and
     Netscape Public License. (Filling in the name of the Initial
     Developer, Original Code or Contributor in the notice described in
     Exhibit A shall not of themselves be deemed to be modifications of
     this License.)

7. DISCLAIMER OF WARRANTY.

     COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
     WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
     WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF
     DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING.
     THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE
     IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT,
     YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE
     COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER
     OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF
     ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

     8.1.  This License and the rights granted hereunder will terminate
     automatically if You fail to comply with terms herein and fail to cure
     such breach within 30 days of becoming aware of the breach. All
     sublicenses to the Covered Code which are properly granted shall
     survive any termination of this License. Provisions which, by their
     nature, must remain in effect beyond the termination of this License
     shall survive.

     8.2.  If You initiate litigation by asserting a patent infringement
     claim (excluding declatory judgment actions) against Initial Developer
     or a Contributor (the Initial Developer or Contributor against whom
     You file such action is referred to as "Participant")  alleging that:

     (a)  such Participant's Contributor Version directly or indirectly
     infringes any patent, then any and all rights granted by such
     Participant to You under Sections 2.1 and/or 2.2 of this License
     shall, upon 60 days notice from Participant terminate prospectively,
     unless if within 60 days after receipt of notice You either: (i)
     agree in writing to pay Participant a mutually agreeable reasonable
     royalty for Your past and future use of Modifications made by such
     Participant, or (ii) withdraw Your litigation claim with respect to
```

the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of,

```
     or an entity chartered or registered to do business in the United
     States of America, any litigation relating to this License shall be
     subject to the jurisdiction of the Federal Courts of the Northern
     District of California, with venue lying in Santa Clara County,
     California, with the losing party responsible for costs, including
     without limitation, court costs and reasonable attorneys' fees and
     expenses. The application of the United Nations Convention on
     Contracts for the International Sale of Goods is expressly excluded.
     Any law or regulation which provides that the language of a contract
     shall be construed against the drafter shall not apply to this
     License.

12. RESPONSIBILITY FOR CLAIMS.

     As between Initial Developer and the Contributors, each party is
     responsible for claims and damages arising, directly or indirectly,
     out of its utilization of rights under this License and You agree to
     work with Initial Developer and Contributors to distribute such
     responsibility on an equitable basis. Nothing herein is intended or
     shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

     Initial Developer may designate portions of the Covered Code as
     "Multiple-Licensed".  "Multiple-Licensed" means that the Initial
     Developer permits you to utilize portions of the Covered Code under
     Your choice of the MPL or the alternative licenses, if any, specified
     by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

     ``The contents of this file are subject to the Mozilla Public License
     Version 1.1 (the "License"); you may not use this file except in
     compliance with the License. You may obtain a copy of the License at
     http://www.mozilla.org/MPL/

     Software distributed under the License is distributed on an "AS IS"
     basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
     License for the specific language governing rights and limitations
     under the License.

     The Original Code is RabbitMQ.

     The Initial Developer of the Original Code is GoPivotal, Inc.
     Copyright (c) 2007-2016 Pivotal Software, Inc.  All rights reserved.

     Alternatively, the contents of this file may be used under the terms
     of the GNU General Public License version 2 (the  "GPL2"), or
     the Apache License version 2 (the "ASL2") in which case the
     provisions of GPL2 or the ASL2 are applicable instead of those
     above.  If you wish to allow use of your version of this file only
     under the terms of the GPL2 or the ASL2 and not to allow others to use
     your version of this file under the MPL, indicate your decision by
     deleting  the provisions above and replace  them with the notice and
     other provisions required by the GPL2 or the ASL2.  If you do not
 delete
     the provisions above, a recipient may use your version of this file
     under either the MPL, the GPL2 or the ASL2.''

     [NOTE: The text of this Exhibit A may differ slightly from the text of
     the notices in the Source Code files of the Original Code. You should
     use the text of this Exhibit A rather than the text found in the
Original Code Source Code for Your Modifications.]
```

```
---
com.papertrail » profiler 1.0.2
COPYRIGHT and LICENSE:
Copyright 2015 Papertrail, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



---
org.eclipse.jetty » jetty-server 9.4.14.v20181114

LICENSE: EPL v1.0 + Apache 2.0

This program and the accompanying materials are made available under the
terms of the Eclipse Public License 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0, or the Apache Software License
2.0 which is available at https://www.apache.org/licenses/LICENSE-2.0.



Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
   distributed under this Agreement, and
b) in the case of each subsequent Contributor:
    i) changes to the Program, and
   ii) additions to the Program;

   where such changes and/or additions to the Program originate from and are
   distributed by that particular Contributor. A Contribution 'originates'
   from a Contributor if it was added to the Program by such Contributor
   itself or anyone acting on such Contributor's behalf. Contributions do
 not
   include additions to the Program which: (i) are separate modules of
   software distributed in conjunction with the Program under their own
   license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
```

```
combined with the Program.

"Program" means the Contributions distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS
  a) Subject to the terms of this Agreement, each Contributor hereby grants
     Recipient a non-exclusive, worldwide, royalty-free copyright license to
     reproduce, prepare derivative works of, publicly display, publicly
     perform, distribute and sublicense the Contribution of such
 Contributor,
     if any, and such derivative works, in source code and object code form.
  b) Subject to the terms of this Agreement, each Contributor hereby grants
     Recipient a non-exclusive, worldwide, royalty-free patent license under
     Licensed Patents to make, use, sell, offer to sell, import and
 otherwise
     transfer the Contribution of such Contributor, if any, in source code
 and
     object code form. This patent license shall apply to the combination of
     the Contribution and the Program if, at the time the Contribution is
     added by the Contributor, such addition of the Contribution causes such
     combination to be covered by the Licensed Patents. The patent license
     shall not apply to any other combinations which include the
 Contribution.
     No hardware per se is licensed hereunder.
  c) Recipient understands that although each Contributor grants the
 licenses
     to its Contributions set forth herein, no assurances are provided by
 any
     Contributor that the Program does not infringe the patent or other
     intellectual property rights of any other entity. Each Contributor
     disclaims any liability to Recipient for claims brought by any other
     entity based on infringement of intellectual property rights or
     otherwise. As a condition to exercising the rights and licenses granted
     hereunder, each Recipient hereby assumes sole responsibility to secure
     any other intellectual property rights needed, if any. For example, if
 a
     third party patent license is required to allow Recipient to distribute
     the Program, it is Recipient's responsibility to acquire that license
     before distributing the Program.
  d) Each Contributor represents that to its knowledge it has sufficient
     copyright rights in its Contribution, if any, to grant the copyright
     license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
its own license agreement, provided that:

  a) it complies with the terms and conditions of this Agreement; and
  b) its license agreement:
      i) effectively disclaims on behalf of all Contributors all warranties
         and conditions, express and implied, including warranties or
         conditions of title and non-infringement, and implied warranties or
         conditions of merchantability and fitness for a particular purpose;
     ii) effectively excludes on behalf of all Contributors all liability
 for
         damages, including direct, indirect, special, incidental and
         consequential damages, such as lost profits;
    iii) states that any provisions which differ from this Agreement are
         offered by that Contributor alone and not by any other party; and
```

```
     iv) states that source code for the Program is available from such
         Contributor, and informs licensees how to obtain it in a reasonable
         manner on or through a medium customarily used for software
 exchange.

When the Program is made available in source code form:

  a) it must be made available under this Agreement; and
  b) a copy of this Agreement must be included with each copy of the
 Program.
     Contributors may not remove or alter any copyright notices contained
     within the Program.

Each Contributor must identify itself as the originator of its Contribution,
if
any, in a manner that reasonably allows subsequent Recipients to identify
 the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
 who
includes the Program in a commercial product offering should do so in a
 manner
which does not create potential liability for other Contributors. Therefore,
if a Contributor includes the Program in a commercial product offering, such
Contributor ("Commercial Contributor") hereby agrees to defend and indemnify
every other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits and
other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such Commercial
Contributor in connection with its distribution of the Program in a
 commercial
product offering. The obligations in this section do not apply to any claims
or Losses relating to any actual or alleged intellectual property
infringement. In order to qualify, an Indemnified Contributor must:
a) promptly notify the Commercial Contributor in writing of such claim, and
b) allow the Commercial Contributor to control, and cooperate with the
Commercial Contributor in, the defense and any related settlement
negotiations. The Indemnified Contributor may participate in any such claim
 at
its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If
that Commercial Contributor then makes performance claims, or offers
warranties related to Product X, those performance claims and warranties are
such Commercial Contributor's responsibility alone. Under this section, the
Commercial Contributor would have to defend claims against the other
Contributors related to those performance claims and warranties, and if a
court requires any other Contributor to pay any damages as a result, the
Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS
 OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
 TITLE,
```

```
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using
and distributing the Program and assumes all risks associated with its
exercise of rights under this Agreement , including but not limited to the
risks and costs of program errors, compliance with applicable laws, damage
 to
or loss of data, programs or equipment, and unavailability or interruption
 of
operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION
LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY
OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of the
remainder of the terms of this Agreement, and without further action by the
parties hereto, such provision shall be reformed to the minimum extent
necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program itself
(excluding combinations of the Program with other software or hardware)
infringes such Recipient's patent(s), then such Recipient's rights granted
under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
 does
not cure such failure in a reasonable period of time after becoming aware of
such noncompliance. If all Recipient's rights under this Agreement
 terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient's obligations under this
 Agreement
and any licenses granted by Recipient relating to the Program shall continue
and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right
 to
publish new versions (including revisions) of this Agreement from time to
time. No one other than the Agreement Steward has the right to modify this
Agreement. The Eclipse Foundation is the initial Agreement Steward. The
Eclipse Foundation may assign the responsibility to serve as the Agreement
Steward to a suitable separate entity. Each new version of the Agreement
 will
be given a distinguishing version number. The Program (including
Contributions) may always be distributed subject to the version of the
Agreement under which it was received. In addition, after a new version of
 the
Agreement is published, Contributor may elect to distribute the Program
(including its Contributions) under the new version. Except as expressly
```

```
stated in Sections 2(a) and 2(b) above, Recipient receives no rights or
licenses to the intellectual property of any Contributor under this
 Agreement,
whether expressly, by implication, estoppel or otherwise. All rights in the
Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury
 trial in
any resulting litigation.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
```

```
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
```

```
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

---------------------
Notice file:
-----------------------------------------------------------------
 Jetty Web Container
 Copyright 1995-2019 Mort Bay Consulting Pty Ltd.
-----------------------------------------------------------------

The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
unless otherwise noted.

Jetty is dual licensed under both

  * The Apache 2.0 License
    http://www.apache.org/licenses/LICENSE-2.0.html

      and

  * The Eclipse Public 1.0 License
    http://www.eclipse.org/legal/epl-v10.html

Jetty may be distributed under either license.

------
Eclipse

The following artifacts are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message


The following artifacts are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish


------
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

 * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
```

```
------
OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm


------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl


------
MortBay

The following artifacts are ASL2 licensed.  Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
  org.apache.tomcat:tomcat-jasper
  org.apache.tomcat:tomcat-juli
  org.apache.tomcat:tomcat-jsp-api
  org.apache.tomcat:tomcat-el-api
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-api
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-el-api


------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
```

```
---
ch.qos.logback » logback-classic 1.2.3
COPYRIGHT and LICENSE:
Logback LICENSE
---------------

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.


GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
```

```
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
```

```
 derived from the library, whereas the latter must be combined with the
 library in order to run.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices stating
 that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no charge to
 all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a table
 of data to be supplied by an application program that uses the facility,
 other than as an argument passed when the facility is invoked, then you
 must make a good faith effort to ensure that, in the event an application
 does not supply such function or table, the facility still operates, and
 performs whatever part of its purpose remains meaningful.
```

```
    (For example, a function in a library to compute square roots has a
 purpose that is entirely well-defined independent of the application.
 Therefore, Subsection 2d requires that any application-supplied function or
 table used by this function must be optional: if the application does not
 supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
```

```
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

    a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
    b) Use a suitable shared library mechanism for linking with the Library.
 A suitable mechanism is one that (1) uses at run time a copy of the
 library already present on the user's computer system, rather than copying
 library functions into the executable, and (2) will operate properly with
 a modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
    c) Accompany the work with a written offer, valid for at least three
 years, to give the same user the materials specified in Subsection 6a,
 above, for a charge no more than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
    e) Verify that the user has already received a copy of these materials
 or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
```

```
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

    a) Accompany the combined library with a copy of the same work based
 on the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
    b) Give prominent notice with the combined library of the fact that
 part of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.
```

```
It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
```

```
END OF TERMS AND CONDITIONS



----
org.apache.httpcomponents » httpclient 4.5.5
COPYRIGHT: Copyright 1999-2018 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-client/
blob/4.5.5/LICENSE.txt



---
org.openjdk.jmh 1.19
No Copyright info
LICENSE: GNU GPL v2.0 https://github.com/infynyxx/openjdk-jmh/blob/
d5660790826189b3515083a270775f77a6378efc/jmh-core-it/LICENSE


---
net.sf.ehcache » ehcache 2.10.4

COPYRIGHT: (c) © Terracotta, Inc
LICENSE: Apache 2.0 http://www.ehcache.org/about/license.html


---
apache httpasyncclient 4.1.3
COPYRIGHT: Copyright 2010-2017 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/httpasyncclient/blob/4.1.3/
LICENSE.txt


---
org.jdbi » jdbi 2.38.1
org.jdbi » jdbi3-core 3.0.0-rc1
COPYRIGHT: Copyright (C) 2004 - 2015 Brian McCallister
LICENSE: Apache 2.0 https://github.com/jdbi/jdbi/blob/jdbi-2.38.1/LICENSE


---
org.apache.logging.log4j » log4j-api 2.10.0
org.apache.logging.log4j » log4j-core 2.10.0
COPYRIGHT: Copyright 1999-2017 Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/logging-log4j2/blob/master/
LICENSE.txt

NOTICE:

Apache Log4j
Copyright 1999-2017 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams
```

```
picocli (http://picocli.info)
Copyright 2017 Remko Popma



---
org.openjdk.jcstress jcstress-core 0.1.1
No copyright info
LICENSE: Apache 2.0 https://github.com/jwoschitz/jcstress-examples/blob/
master/LICENSE
```

Provider: Coda Hale / Component(s): DropWizard Metrics 4.1.0

```
COPYRIGHT: Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2017
 Dropwizard Team

LICENSE: Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



=====================================================
Modules:

docs
metrics-bom
metrics-annotation
metrics-benchmarks
metrics-core
metrics-healthchecks
metrics-ehcache
metrics-graphite
metrics-httpclient
metrics-httpasyncclient
metrics-jcache
metrics-jdbi
metrics-jdbi3
metrics-jersey2
metrics-jetty9
metrics-json
metrics-jvm
metrics-log4j2
metrics-logback
metrics-servlet
metrics-servlets
metrics-jcstress
metrics-jmx

=====================================================
Notice File:

This product includes code derived from the JSR-166 project
 (ThreadLocalRandom, Striped64,
LongAdder), which was released with the following comments:

    Written by Doug Lea with assistance from members of JCP JSR-166
    Expert Group and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/

=====================================================
Dependencies:

org.slf4j 1.7.25
COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:
```

```
The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---
assertj 3.6.2
COPYRIGHT: Copyright 2012-2018 the original author or authors.
LICENSE: Apache 2.0 https://github.com/joel-costigliola/assertj-core/blob/
master/LICENSE.md

---
mockito 2.7.12
COPYRIGHT and LICENSE:
The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

---
com.fasterxml.jackson.core » jackson-databind 2.9.5
COPYRIGHT: (c) fasterxml and Tatu Saloranta, tatu.saloranta@iki.fi: author
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0

---
com.rabbitmq » amqp-client 4.4.1
COPYRIGHT: Copyright (c) 2007-Present Pivotal Software, Inc.  All rights
 reserved.
LICENSE: GNU GPL v2.0 + Apache 2.0 + MPL v1.1

This package, the RabbitMQ Java client library, is triple-licensed under
the Mozilla Public License 1.1 ("MPL"), the GNU General Public License
version 2 ("GPL") and the Apache License version 2 ("ASL"). For the MPL,
please see LICENSE-MPL-RabbitMQ. For the GPL, please see LICENSE-GPL2.
For the ASL, please see LICENSE-APACHE2.

The RabbitMQ Java client library includes third-party software under the
ASL. For this license, please see LICENSE-APACHE2. For attribution of
```

```
copyright and other details of provenance, please refer to the source code.

If you have any questions regarding licensing, please contact us at
info@rabbitmq.com.

Exhibit A of the Mozilla Public License provided with this file allows
 licensees to use the file under the terms of any of the three licenses.
 Oracle elects the terms of Apache Software License 2.0
Apache 2.0 https://github.com/rabbitmq/rabbitmq-java-client/blob/v4.4.1/
LICENSE-APACHE2

==============

EXHIBIT A -Mozilla Public License.

     ``The contents of this file are subject to the Mozilla Public License
     Version 1.1 (the "License"); you may not use this file except in
     compliance with the License. You may obtain a copy of the License at
     http://www.mozilla.org/MPL/

     Software distributed under the License is distributed on an "AS IS"
     basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
     License for the specific language governing rights and limitations
     under the License.

     The Original Code is RabbitMQ.

     The Initial Developer of the Original Code is GoPivotal, Inc.
     Copyright (c) 2007-2016 Pivotal Software, Inc.  All rights reserved.

     Alternatively, the contents of this file may be used under the terms
     of the GNU General Public License version 2 (the  "GPL2"), or
     the Apache License version 2 (the "ASL2") in which case the
     provisions of GPL2 or the ASL2 are applicable instead of those
     above.  If you wish to allow use of your version of this file only
     under the terms of the GPL2 or the ASL2 and not to allow others to use
     your version of this file under the MPL, indicate your decision by
     deleting  the provisions above and replace  them with the notice and
     other provisions required by the GPL2 or the ASL2.  If you do not
 delete
     the provisions above, a recipient may use your version of this file
     under either the MPL, the GPL2 or the ASL2.''

     [NOTE: The text of this Exhibit A may differ slightly from the text of
     the notices in the Source Code files of the Original Code. You should
     use the text of this Exhibit A rather than the text found in the
Original Code Source Code for Your Modifications.]

---
com.papertrail » profiler 1.0.2
COPYRIGHT and LICENSE:
Copyright 2015 Papertrail, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
---
org.eclipse.jetty » jetty-server 9.4.14.v20181114

This program and the accompanying materials are made available under the
terms of the Eclipse Public License 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0, or the Apache Software License
2.0 which is available at https://www.apache.org/licenses/LICENSE-2.0.

Oracle elects terms of Apache Software License 2.0
=====================
Notice file:
================================================================
 Jetty Web Container
 Copyright 1995-2019 Mort Bay Consulting Pty Ltd.
================================================================

The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
unless otherwise noted.

Jetty is dual licensed under both

  * The Apache 2.0 License
    http://www.apache.org/licenses/LICENSE-2.0.html

      and

  * The Eclipse Public 1.0 License
    http://www.eclipse.org/legal/epl-v10.html

Jetty may be distributed under either license.

------
Eclipse

The following artifacts are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message


The following artifacts are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

------
OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm


------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
```

```
------
MortBay

The following artifacts are ASL2 licensed.  Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.
org.mortbay.jasper:apache-jsp
  org.apache.tomcat:tomcat-jasper
  org.apache.tomcat:tomcat-juli
  org.apache.tomcat:tomcat-jsp-api
  org.apache.tomcat:tomcat-el-api
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-api
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util
  org.mortbay.jasper:apache-el
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-el-api


------
Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UiixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.









---
ch.qos.logback » logback-classic 1.2.3
COPYRIGHT and LICENSE:
Logback LICENSE
---------------

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.


GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
```

```
[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
```

```
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.
```

```
Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices stating
 that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no charge to
 all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a table
 of data to be supplied by an application program that uses the facility,
 other than as an argument passed when the facility is invoked, then you
 must make a good faith effort to ensure that, in the event an application
 does not supply such function or table, the facility still operates, and
 performs whatever part of its purpose remains meaningful.

    (For example, a function in a library to compute square roots has a
 purpose that is entirely well-defined independent of the application.
 Therefore, Subsection 2d requires that any application-supplied function or
 table used by this function must be optional: if the application does not
 supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
```

```
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.
```

```
You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

    a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
    b) Use a suitable shared library mechanism for linking with the Library.
 A suitable mechanism is one that (1) uses at run time a copy of the
 library already present on the user's computer system, rather than copying
 library functions into the executable, and (2) will operate properly with
 a modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
    c) Accompany the work with a written offer, valid for at least three
 years, to give the same user the materials specified in Subsection 6a,
 above, for a charge no more than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
    e) Verify that the user has already received a copy of these materials
 or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

    a) Accompany the combined library with a copy of the same work based
 on the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
    b) Give prominent notice with the combined library of the fact that
 part of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
```

```
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
```

```
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS



----
org.apache.httpcomponents » httpclient 4.5.5
COPYRIGHT: Copyright 1999-2018 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-client/
blob/4.5.5/LICENSE.txt

---
net.sf.ehcache » ehcache 2.10.4

COPYRIGHT: (c) © Terracotta, Inc
LICENSE: Apache 2.0 http://www.ehcache.org/about/license.html


---
apache httpasyncclient 4.1.3
COPYRIGHT: Copyright 2010-2017 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/httpasyncclient/blob/4.1.3/
LICENSE.txt


---
org.jdbi » jdbi 2.38.1
org.jdbi » jdbi3-core 3.0.0-rc1
COPYRIGHT: Copyright (C) 2004 - 2015 Brian McCallister
LICENSE: Apache 2.0 https://github.com/jdbi/jdbi/blob/jdbi-2.38.1/LICENSE
```

```
---
org.apache.logging.log4j » log4j-api 2.10.0
org.apache.logging.log4j » log4j-core 2.10.0
COPYRIGHT: Copyright 1999-2017 Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/logging-log4j2/blob/master/
LICENSE.txt

NOTICE:

Apache Log4j
Copyright 1999-2017 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

picocli (http://picocli.info)
Copyright 2017 Remko Popma

---
org.openjdk.jcstress jcstress-core 0.1.1
No copyright info
LICENSE: Apache 2.0 https://github.com/jwoschitz/jcstress-examples/blob/
master/LICENSE
```

Provider: Coda Hale / Component(s): DropWizard Metrics 4.1.1

```
dropwizard-metrics 4.1.1

COPYRIGHT: Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2017
 Dropwizard Team

LICENSE: Apache 2.0


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



=====================================================
Modules:

docs
metrics-bom
metrics-annotation
metrics-benchmarks
metrics-core
metrics-collectd
metrics-healthchecks
metrics-ehcache
metrics-graphite
metrics-httpclient
metrics-httpasyncclient
metrics-jcache
metrics-jdbi
metrics-jdbi3
metrics-jersey2
metrics-jetty9
metrics-json
metrics-jvm
metrics-log4j2
metrics-logback
metrics-servlet
metrics-servlets
metrics-jcstress***
metrics-jmx
```

```
=====================================================
Notice File:


This product includes code derived from the JSR-166 project
 (ThreadLocalRandom, Striped64,
LongAdder), which was released with the following comments:

    Written by Doug Lea with assistance from members of JCP JSR-166
    Expert Group and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/


=====================================================
Dependencies:

org.slf4j 1.7.25
COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---
assertj 3.6.2
COPYRIGHT: Copyright 2012-2018 the original author or authors.
LICENSE: Apache 2.0 https://github.com/joel-costigliola/assertj-core/blob/
master/LICENSE.md


---
mockito 2.7.12
COPYRIGHT and LICENSE:
The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
com.fasterxml.jackson.core » jackson-databind 2.9.8
COPYRIGHT: (c) fasterxml and Tatu Saloranta, tatu.saloranta@iki.fi: author
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0


---
com.rabbitmq » amqp-client 5.5.3
COPYRIGHT: Copyright (c) 2007-Present Pivotal Software, Inc.  All rights
 reserved.
LICENSE: GNU GPL v2.0 + Apache 2.0 + MPL v1.1

This package, the RabbitMQ Java client library, is triple-licensed under
the Mozilla Public License 1.1 ("MPL"), the GNU General Public License
version 2 ("GPL") and the Apache License version 2 ("ASL"). For the MPL,
please see LICENSE-MPL-RabbitMQ. For the GPL, please see LICENSE-GPL2.
For the ASL, please see LICENSE-APACHE2.

The RabbitMQ Java client library includes third-party software under the
ASL. For this license, please see LICENSE-APACHE2. For attribution of
copyright and other details of provenance, please refer to the source code.

If you have any questions regarding licensing, please contact us at
info@rabbitmq.com.


Apache 2.0 https://github.com/rabbitmq/rabbitmq-java-client/blob/v4.4.1/
LICENSE-APACHE2

==============
     GNU GENERAL PUBLIC LICENSE
         Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.
```

```
  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

      GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
```

```
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,
```

```
    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
```

```
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

       NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
```

```
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

       END OF TERMS AND CONDITIONS



==================
                          MOZILLA PUBLIC LICENSE
                                Version 1.1

                              ---------------

1. Definitions.

     1.0.1. "Commercial Use" means distribution or otherwise making the
     Covered Code available to a third party.

     1.1. "Contributor" means each entity that creates or contributes to
     the creation of Modifications.

     1.2. "Contributor Version" means the combination of the Original
     Code, prior Modifications used by a Contributor, and the Modifications
     made by that particular Contributor.

     1.3. "Covered Code" means the Original Code or Modifications or the
     combination of the Original Code and Modifications, in each case
     including portions thereof.

     1.4. "Electronic Distribution Mechanism" means a mechanism generally
     accepted in the software development community for the electronic
     transfer of data.

     1.5. "Executable" means Covered Code in any form other than Source
     Code.

     1.6. "Initial Developer" means the individual or entity identified
     as the Initial Developer in the Source Code notice required by Exhibit
     A.

     1.7. "Larger Work" means a work which combines Covered Code or
     portions thereof with code not governed by the terms of this License.

     1.8. "License" means this document.

     1.8.1. "Licensable" means having the right to grant, to the maximum
     extent possible, whether at the time of the initial grant or
     subsequently acquired, any and all of the rights conveyed herein.

     1.9. "Modifications" means any addition to or deletion from the
     substance or structure of either the Original Code or any previous
     Modifications. When Covered Code is released as a series of files, a
     Modification is:
          A. Any addition to or deletion from the contents of a file
          containing Original Code or previous Modifications.

          B. Any new file that contains any part of the Original Code or
          previous Modifications.

     1.10. "Original Code" means Source Code of computer software code
     which is described in the Source Code notice required by Exhibit A as
     Original Code, and which, at the time of its release under this
     License is not already Covered Code governed by this License.
```

```
     1.10.1. "Patent Claims" means any patent claim(s), now owned or
     hereafter acquired, including without limitation,  method, process,
     and apparatus claims, in any patent Licensable by grantor.

     1.11. "Source Code" means the preferred form of the Covered Code for
     making modifications to it, including all modules it contains, plus
     any associated interface definition files, scripts used to control
     compilation and installation of an Executable, or source code
     differential comparisons against either the Original Code or another
     well known, available Covered Code of the Contributor's choice. The
     Source Code can be in a compressed or archival form, provided the
     appropriate decompression or de-archiving software is widely available
     for no charge.

     1.12. "You" (or "Your")  means an individual or a legal entity
     exercising rights under, and complying with all of the terms of, this
     License or a future version of this License issued under Section 6.1.
     For legal entities, "You" includes any entity which controls, is
     controlled by, or is under common control with You. For purposes of
     this definition, "control" means (a) the power, direct or indirect,
     to cause the direction or management of such entity, whether by
     contract or otherwise, or (b) ownership of more than fifty percent
     (50%) of the outstanding shares or beneficial ownership of such
     entity.

2. Source Code License.

     2.1. The Initial Developer Grant.
     The Initial Developer hereby grants You a world-wide, royalty-free,
     non-exclusive license, subject to third party intellectual property
     claims:
          (a)  under intellectual property rights (other than patent or
          trademark) Licensable by Initial Developer to use, reproduce,
          modify, display, perform, sublicense and distribute the Original
          Code (or portions thereof) with or without Modifications, and/or
          as part of a Larger Work; and

          (b) under Patents Claims infringed by the making, using or
          selling of Original Code, to make, have made, use, practice,
          sell, and offer for sale, and/or otherwise dispose of the
          Original Code (or portions thereof).

          (c) the licenses granted in this Section 2.1(a) and (b) are
          effective on the date Initial Developer first distributes
          Original Code under the terms of this License.

          (d) Notwithstanding Section 2.1(b) above, no patent license is
          granted: 1) for code that You delete from the Original Code; 2)
          separate from the Original Code;  or 3) for infringements caused
          by: i) the modification of the Original Code or ii) the
          combination of the Original Code with other software or devices.

     2.2. Contributor Grant.
     Subject to third party intellectual property claims, each Contributor
     hereby grants You a world-wide, royalty-free, non-exclusive license

          (a)  under intellectual property rights (other than patent or
          trademark) Licensable by Contributor, to use, reproduce, modify,
          display, perform, sublicense and distribute the Modifications
          created by such Contributor (or portions thereof) either on an
          unmodified basis, with other Modifications, as Covered Code
          and/or as part of a Larger Work; and

          (b) under Patent Claims infringed by the making, using, or
```

```
            selling of  Modifications made by that Contributor either alone
            and/or in combination with its Contributor Version (or portions
            of such combination), to make, use, sell, offer for sale, have
            made, and/or otherwise dispose of: 1) Modifications made by that
            Contributor (or portions thereof); and 2) the combination of
            Modifications made by that Contributor with its Contributor
            Version (or portions of such combination).

            (c) the licenses granted in Sections 2.2(a) and 2.2(b) are
            effective on the date Contributor first makes Commercial Use of
            the Covered Code.

            (d)    Notwithstanding Section 2.2(b) above, no patent license is
            granted: 1) for any code that Contributor has deleted from the
            Contributor Version; 2)  separate from the Contributor Version;
            3)  for infringements caused by: i) third party modifications of
            Contributor Version or ii)  the combination of Modifications made
            by that Contributor with other software  (except as part of the
            Contributor Version) or other devices; or 4) under Patent Claims
            infringed by Covered Code in the absence of Modifications made by
            that Contributor.

3. Distribution Obligations.

     3.1. Application of License.
     The Modifications which You create or to which You contribute are
     governed by the terms of this License, including without limitation
     Section 2.2. The Source Code version of Covered Code may be
     distributed only under the terms of this License or a future version
     of this License released under Section 6.1, and You must include a
     copy of this License with every copy of the Source Code You
     distribute. You may not offer or impose any terms on any Source Code
     version that alters or restricts the applicable version of this
     License or the recipients' rights hereunder. However, You may include
     an additional document offering the additional rights described in
     Section 3.5.

     3.2. Availability of Source Code.
     Any Modification which You create or to which You contribute must be
     made available in Source Code form under the terms of this License
     either on the same media as an Executable version or via an accepted
     Electronic Distribution Mechanism to anyone to whom you made an
     Executable version available; and if made available via Electronic
     Distribution Mechanism, must remain available for at least twelve (12)
     months after the date it initially became available, or at least six
     (6) months after a subsequent version of that particular Modification
     has been made available to such recipients. You are responsible for
     ensuring that the Source Code version remains available even if the
     Electronic Distribution Mechanism is maintained by a third party.

     3.3. Description of Modifications.
     You must cause all Covered Code to which You contribute to contain a
     file documenting the changes You made to create that Covered Code and
     the date of any change. You must include a prominent statement that
     the Modification is derived, directly or indirectly, from Original
     Code provided by the Initial Developer and including the name of the
     Initial Developer in (a) the Source Code, and (b) in any notice in an
     Executable version or related documentation in which You describe the
     origin or ownership of the Covered Code.

     3.4. Intellectual Property Matters
          (a) Third Party Claims.
          If Contributor has knowledge that a license under a third party's
          intellectual property rights is required to exercise the rights
```

```
        granted by such Contributor under Sections 2.1 or 2.2,
        Contributor must include a text file with the Source Code
        distribution titled "LEGAL" which describes the claim and the
        party making the claim in sufficient detail that a recipient will
        know whom to contact. If Contributor obtains such knowledge after
        the Modification is made available as described in Section 3.2,
        Contributor shall promptly modify the LEGAL file in all copies
        Contributor makes available thereafter and shall take other steps
        (such as notifying appropriate mailing lists or newsgroups)
        reasonably calculated to inform those who received the Covered
        Code that new knowledge has been obtained.

        (b) Contributor APIs.
        If Contributor's Modifications include an application programming
        interface and Contributor has knowledge of patent licenses which
        are reasonably necessary to implement that API, Contributor must
        also include this information in the LEGAL file.

             (c)    Representations.
        Contributor represents that, except as disclosed pursuant to
        Section 3.4(a) above, Contributor believes that Contributor's
        Modifications are Contributor's original creation(s) and/or
        Contributor has sufficient rights to grant the rights conveyed by
        this License.

    3.5. Required Notices.
    You must duplicate the notice in Exhibit A in each file of the Source
    Code.  If it is not possible to put such notice in a particular Source
    Code file due to its structure, then You must include such notice in a
    location (such as a relevant directory) where a user would be likely
    to look for such a notice.  If You created one or more Modification(s)
    You may add your name as a Contributor to the notice described in
    Exhibit A.  You must also duplicate this License in any documentation
    for the Source Code where You describe recipients' rights or ownership
    rights relating to Covered Code.  You may choose to offer, and to
    charge a fee for, warranty, support, indemnity or liability
    obligations to one or more recipients of Covered Code. However, You
    may do so only on Your own behalf, and not on behalf of the Initial
    Developer or any Contributor. You must make it absolutely clear than
    any such warranty, support, indemnity or liability obligation is
    offered by You alone, and You hereby agree to indemnify the Initial
    Developer and every Contributor for any liability incurred by the
    Initial Developer or such Contributor as a result of warranty,
    support, indemnity or liability terms You offer.

    3.6. Distribution of Executable Versions.
    You may distribute Covered Code in Executable form only if the
    requirements of Section 3.1-3.5 have been met for that Covered Code,
    and if You include a notice stating that the Source Code version of
    the Covered Code is available under the terms of this License,
    including a description of how and where You have fulfilled the
    obligations of Section 3.2. The notice must be conspicuously included
    in any notice in an Executable version, related documentation or
    collateral in which You describe recipients' rights relating to the
    Covered Code. You may distribute the Executable version of Covered
    Code or ownership rights under a license of Your choice, which may
    contain terms different from this License, provided that You are in
    compliance with the terms of this License and that the license for the
    Executable version does not attempt to limit or alter the recipient's
    rights in the Source Code version from the rights set forth in this
    License. If You distribute the Executable version under a different
    license You must make it absolutely clear that any terms which differ
    from this License are offered by You alone, not by the Initial
    Developer or any Contributor. You hereby agree to indemnify the
```

```
     Initial Developer and every Contributor for any liability incurred by
     the Initial Developer or such Contributor as a result of any such
     terms You offer.

     3.7. Larger Works.
     You may create a Larger Work by combining Covered Code with other code
     not governed by the terms of this License and distribute the Larger
     Work as a single product. In such a case, You must make sure the
     requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

     If it is impossible for You to comply with any of the terms of this
     License with respect to some or all of the Covered Code due to
     statute, judicial order, or regulation then You must: (a) comply with
     the terms of this License to the maximum extent possible; and (b)
     describe the limitations and the code they affect. Such description
     must be included in the LEGAL file described in Section 3.4 and must
     be included with all distributions of the Source Code. Except to the
     extent prohibited by statute or regulation, such description must be
     sufficiently detailed for a recipient of ordinary skill to be able to
     understand it.

5. Application of this License.

     This License applies to code to which the Initial Developer has
     attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

     6.1. New Versions.
     Netscape Communications Corporation ("Netscape") may publish revised
     and/or new versions of the License from time to time. Each version
     will be given a distinguishing version number.

     6.2. Effect of New Versions.
     Once Covered Code has been published under a particular version of the
     License, You may always continue to use it under the terms of that
     version. You may also choose to use such Covered Code under the terms
     of any subsequent version of the License published by Netscape. No one
     other than Netscape has the right to modify the terms applicable to
     Covered Code created under this License.

     6.3. Derivative Works.
     If You create or use a modified version of this License (which you may
     only do in order to apply it to code which is not already Covered Code
     governed by this License), You must (a) rename Your license so that
     the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape",
     "MPL", "NPL" or any confusingly similar phrase do not appear in your
     license (except to note that your license differs from this License)
     and (b) otherwise make it clear that Your version of the license
     contains terms which differ from the Mozilla Public License and
     Netscape Public License. (Filling in the name of the Initial
     Developer, Original Code or Contributor in the notice described in
     Exhibit A shall not of themselves be deemed to be modifications of
     this License.)

7. DISCLAIMER OF WARRANTY.

     COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
     WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
     WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF
     DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING.
     THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE
```

IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declatory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY

```
     CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL,
     WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
     COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN
     INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF
     LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY
     RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW
     PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE
     EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO
     THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

     The Covered Code is a "commercial item," as that term is defined in
     48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
     software" and "commercial computer software documentation," as such
     terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48
     C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995),
     all U.S. Government End Users acquire Covered Code with only those
     rights set forth herein.

11. MISCELLANEOUS.

     This License represents the complete agreement concerning subject
     matter hereof. If any provision of this License is held to be
     unenforceable, such provision shall be reformed only to the extent
     necessary to make it enforceable. This License shall be governed by
     California law provisions (except to the extent applicable law, if
     any, provides otherwise), excluding its conflict-of-law provisions.
     With respect to disputes in which at least one party is a citizen of,
     or an entity chartered or registered to do business in the United
     States of America, any litigation relating to this License shall be
     subject to the jurisdiction of the Federal Courts of the Northern
     District of California, with venue lying in Santa Clara County,
     California, with the losing party responsible for costs, including
     without limitation, court costs and reasonable attorneys' fees and
     expenses. The application of the United Nations Convention on
     Contracts for the International Sale of Goods is expressly excluded.
     Any law or regulation which provides that the language of a contract
     shall be construed against the drafter shall not apply to this
     License.

12. RESPONSIBILITY FOR CLAIMS.

     As between Initial Developer and the Contributors, each party is
     responsible for claims and damages arising, directly or indirectly,
     out of its utilization of rights under this License and You agree to
     work with Initial Developer and Contributors to distribute such
     responsibility on an equitable basis. Nothing herein is intended or
     shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

     Initial Developer may designate portions of the Covered Code as
     "Multiple-Licensed".  "Multiple-Licensed" means that the Initial
     Developer permits you to utilize portions of the Covered Code under
     Your choice of the MPL or the alternative licenses, if any, specified
     by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

     ``The contents of this file are subject to the Mozilla Public License
     Version 1.1 (the "License"); you may not use this file except in
     compliance with the License. You may obtain a copy of the License at
     http://www.mozilla.org/MPL/
```

```
     Software distributed under the License is distributed on an "AS IS"
     basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
     License for the specific language governing rights and limitations
     under the License.

     The Original Code is RabbitMQ.

     The Initial Developer of the Original Code is GoPivotal, Inc.
     Copyright (c) 2007-2016 Pivotal Software, Inc.  All rights reserved.

     Alternatively, the contents of this file may be used under the terms
     of the GNU General Public License version 2 (the  "GPL2"), or
     the Apache License version 2 (the "ASL2") in which case the
     provisions of GPL2 or the ASL2 are applicable instead of those
     above.  If you wish to allow use of your version of this file only
     under the terms of the GPL2 or the ASL2 and not to allow others to use
     your version of this file under the MPL, indicate your decision by
     deleting  the provisions above and replace  them with the notice and
     other provisions required by the GPL2 or the ASL2.  If you do not
 delete
     the provisions above, a recipient may use your version of this file
     under either the MPL, the GPL2 or the ASL2.''

     [NOTE: The text of this Exhibit A may differ slightly from the text of
     the notices in the Source Code files of the Original Code. You should
     use the text of this Exhibit A rather than the text found in the
Original Code Source Code for Your Modifications.]




---
com.papertrail » profiler 1.0.2
COPYRIGHT and LICENSE:
Copyright 2015 Papertrail, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



---
org.eclipse.jetty » jetty-server 9.4.18.v20190429

LICENSE: EPL v1.0 + Apache 2.0

This program and the accompanying materials are made available under the
terms of the Eclipse Public License 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0, or the Apache Software License
2.0 which is available at https://www.apache.org/licenses/LICENSE-2.0.



Eclipse Public License - v 1.0
```

```
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
   distributed under this Agreement, and
b) in the case of each subsequent Contributor:
    i) changes to the Program, and
   ii) additions to the Program;

   where such changes and/or additions to the Program originate from and are
   distributed by that particular Contributor. A Contribution 'originates'
   from a Contributor if it was added to the Program by such Contributor
   itself or anyone acting on such Contributor's behalf. Contributions do
 not
   include additions to the Program which: (i) are separate modules of
   software distributed in conjunction with the Program under their own
   license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS
  a) Subject to the terms of this Agreement, each Contributor hereby grants
     Recipient a non-exclusive, worldwide, royalty-free copyright license to
     reproduce, prepare derivative works of, publicly display, publicly
     perform, distribute and sublicense the Contribution of such
 Contributor,
     if any, and such derivative works, in source code and object code form.
  b) Subject to the terms of this Agreement, each Contributor hereby grants
     Recipient a non-exclusive, worldwide, royalty-free patent license under
     Licensed Patents to make, use, sell, offer to sell, import and
 otherwise
     transfer the Contribution of such Contributor, if any, in source code
 and
     object code form. This patent license shall apply to the combination of
     the Contribution and the Program if, at the time the Contribution is
     added by the Contributor, such addition of the Contribution causes such
     combination to be covered by the Licensed Patents. The patent license
     shall not apply to any other combinations which include the
 Contribution.
     No hardware per se is licensed hereunder.
  c) Recipient understands that although each Contributor grants the
 licenses
     to its Contributions set forth herein, no assurances are provided by
 any
     Contributor that the Program does not infringe the patent or other
     intellectual property rights of any other entity. Each Contributor
     disclaims any liability to Recipient for claims brought by any other
```

```
     entity based on infringement of intellectual property rights or
     otherwise. As a condition to exercising the rights and licenses granted
     hereunder, each Recipient hereby assumes sole responsibility to secure
     any other intellectual property rights needed, if any. For example, if
 a
     third party patent license is required to allow Recipient to distribute
     the Program, it is Recipient's responsibility to acquire that license
     before distributing the Program.
  d) Each Contributor represents that to its knowledge it has sufficient
     copyright rights in its Contribution, if any, to grant the copyright
     license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
its own license agreement, provided that:

  a) it complies with the terms and conditions of this Agreement; and
  b) its license agreement:
      i) effectively disclaims on behalf of all Contributors all warranties
         and conditions, express and implied, including warranties or
         conditions of title and non-infringement, and implied warranties or
         conditions of merchantability and fitness for a particular purpose;
     ii) effectively excludes on behalf of all Contributors all liability
 for
         damages, including direct, indirect, special, incidental and
         consequential damages, such as lost profits;
    iii) states that any provisions which differ from this Agreement are
         offered by that Contributor alone and not by any other party; and
     iv) states that source code for the Program is available from such
         Contributor, and informs licensees how to obtain it in a reasonable
         manner on or through a medium customarily used for software
 exchange.

When the Program is made available in source code form:

  a) it must be made available under this Agreement; and
  b) a copy of this Agreement must be included with each copy of the
 Program.
     Contributors may not remove or alter any copyright notices contained
     within the Program.

Each Contributor must identify itself as the originator of its Contribution,
if
any, in a manner that reasonably allows subsequent Recipients to identify
 the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
 who
includes the Program in a commercial product offering should do so in a
 manner
which does not create potential liability for other Contributors. Therefore,
if a Contributor includes the Program in a commercial product offering, such
Contributor ("Commercial Contributor") hereby agrees to defend and indemnify
every other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits and
other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such Commercial
```

```
Contributor in connection with its distribution of the Program in a
 commercial
product offering. The obligations in this section do not apply to any claims
or Losses relating to any actual or alleged intellectual property
infringement. In order to qualify, an Indemnified Contributor must:
a) promptly notify the Commercial Contributor in writing of such claim, and
b) allow the Commercial Contributor to control, and cooperate with the
Commercial Contributor in, the defense and any related settlement
negotiations. The Indemnified Contributor may participate in any such claim
 at
its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If
that Commercial Contributor then makes performance claims, or offers
warranties related to Product X, those performance claims and warranties are
such Commercial Contributor's responsibility alone. Under this section, the
Commercial Contributor would have to defend claims against the other
Contributors related to those performance claims and warranties, and if a
court requires any other Contributor to pay any damages as a result, the
Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS
 OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
 TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using
and distributing the Program and assumes all risks associated with its
exercise of rights under this Agreement , including but not limited to the
risks and costs of program errors, compliance with applicable laws, damage
 to
or loss of data, programs or equipment, and unavailability or interruption
 of
operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION
LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY
OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of the
remainder of the terms of this Agreement, and without further action by the
parties hereto, such provision shall be reformed to the minimum extent
necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program itself
(excluding combinations of the Program with other software or hardware)
infringes such Recipient's patent(s), then such Recipient's rights granted
under Section 2(b) shall terminate as of the date such litigation is filed.
```

```
All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
 does
not cure such failure in a reasonable period of time after becoming aware of
such noncompliance. If all Recipient's rights under this Agreement
 terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient's obligations under this
 Agreement
and any licenses granted by Recipient relating to the Program shall continue
and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right
 to
publish new versions (including revisions) of this Agreement from time to
time. No one other than the Agreement Steward has the right to modify this
Agreement. The Eclipse Foundation is the initial Agreement Steward. The
Eclipse Foundation may assign the responsibility to serve as the Agreement
Steward to a suitable separate entity. Each new version of the Agreement
 will
be given a distinguishing version number. The Program (including
Contributions) may always be distributed subject to the version of the
Agreement under which it was received. In addition, after a new version of
 the
Agreement is published, Contributor may elect to distribute the Program
(including its Contributions) under the new version. Except as expressly
stated in Sections 2(a) and 2(b) above, Recipient receives no rights or
licenses to the intellectual property of any Contributor under this
 Agreement,
whether expressly, by implication, estoppel or otherwise. All rights in the
Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury
 trial in
any resulting litigation.



                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
```

```
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

=====================
Notice file:
=================================================================
 Jetty Web Container
 Copyright 1995-2019 Mort Bay Consulting Pty Ltd.
=================================================================

The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
unless otherwise noted.

Jetty is dual licensed under both

  * The Apache 2.0 License
    http://www.apache.org/licenses/LICENSE-2.0.html

      and

  * The Eclipse Public 1.0 License
    http://www.eclipse.org/legal/epl-v10.html

Jetty may be distributed under either license.

------
Eclipse

The following artifacts are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message
```

```
The following artifacts are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish


------
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

 * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html


------
OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm


------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl


------
MortBay

The following artifacts are ASL2 licensed.  Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
  org.apache.tomcat:tomcat-jasper
  org.apache.tomcat:tomcat-juli
  org.apache.tomcat:tomcat-jsp-api
  org.apache.tomcat:tomcat-el-api
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-api
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util
```

```
org.mortbay.jasper:apache-el
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-el-api


------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.









---
ch.qos.logback » logback-classic 1.2.3
COPYRIGHT and LICENSE:
Logback LICENSE
---------------

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.


GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

Preamble
```

```
The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.
```

```
We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
```

```
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices stating
 that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no charge to
 all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a table
 of data to be supplied by an application program that uses the facility,
 other than as an argument passed when the facility is invoked, then you
 must make a good faith effort to ensure that, in the event an application
 does not supply such function or table, the facility still operates, and
 performs whatever part of its purpose remains meaningful.

    (For example, a function in a library to compute square roots has a
 purpose that is entirely well-defined independent of the application.
 Therefore, Subsection 2d requires that any application-supplied function or
 table used by this function must be optional: if the application does not
 supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.
```

```
Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:
```

```
    a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
    b) Use a suitable shared library mechanism for linking with the Library.
 A suitable mechanism is one that (1) uses at run time a copy of the
 library already present on the user's computer system, rather than copying
 library functions into the executable, and (2) will operate properly with
 a modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
    c) Accompany the work with a written offer, valid for at least three
 years, to give the same user the materials specified in Subsection 6a,
 above, for a charge no more than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
    e) Verify that the user has already received a copy of these materials
 or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

    a) Accompany the combined library with a copy of the same work based
 on the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
    b) Give prominent notice with the combined library of the fact that
 part of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
```

```
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.
```

```
14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS



----
org.apache.httpcomponents » httpclient 4.5.8
COPYRIGHT: Copyright 1999-2019 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-client/
blob/4.5.8/LICENSE.txt



---
org.openjdk.jmh 1.21
COPYRGHT:
 Copyright (c) 2005, 2013, Oracle and/or its affiliates. All rights
 reserved.
 * DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
LICENSE: GNU GPL v2.0 https://github.com/infynyxx/openjdk-jmh/blob/master/
jmh-core-it/LICENSE


---
net.sf.ehcache » ehcache 2.10.6
org.ehcache » ehcache 3.4.0
COPYRIGHT: Copyright 2014-2016 Terracotta, Inc.
LICENSE: Apache 2.0 http://www.ehcache.org/about/license.html


---
apache httpasyncclient 4.1.4
COPYRIGHT: Copyright 2010-2017 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/httpasyncclient/blob/4.1.3/
LICENSE.txt
```

```
---
org.jdbi » jdbi 2.78
org.jdbi » jdbi3-core 3.8.2
COPYRIGHT: Copyright (C) 2004 - 2015 Brian McCallister
LICENSE: Apache 2.0 https://github.com/jdbi/jdbi/blob/jdbi-2.78/LICENSE


---
org.apache.logging.log4j » log4j-api 2.11.2
org.apache.logging.log4j » log4j-core 2.11.2
COPYRIGHT: Copyright 1999-2017 Apache Software Foundation

LICENSE: Apache 2.0 https://github.com/apache/logging-log4j2/blob/master/
LICENSE.txt

NOTICE:

Apache Log4j
Copyright 1999-2017 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

picocli (http://picocli.info)
Copyright 2017 Remko Popma



---
org.openjdk.jcstress jcstress-core 0.5
No copyright info
LICENSE: Apache 2.0 https://github.com/jwoschitz/jcstress-examples/blob/
master/LICENSE
```

Provider: Coda Hale / Component(s): Metrics 3.1.0

```
Copyright (c) 2010-2013 Coda Hale, Yammer.com
_____________________________________________________________
{Include the following only once for all Apache 2.0 licensed products.}

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
```

```
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
```

```
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
a.You must give any other recipients of the Work or Derivative Works a copy
 of this License; and
b.You must cause any modified files to carry prominent notices stating that
 You changed the files; and
c.You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
d.If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

 You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.
```

```
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Coda Hale and Yammer / Component(s): DropWizard 1.3.12

```
Dropwizard 1.3.9
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2016 Dropwizard Team
This product includes software developed by Coda Hale and Yammer, Inc.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
```

```
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
```

```
   You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
   If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

   You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
```

```
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


*****************************************
Modules:
*****************************************

docs
dropwizard-bom
dropwizard-core
dropwizard-client
dropwizard-db
dropwizard-jdbi
dropwizard-jdbi3
dropwizard-migrations
dropwizard-hibernate
dropwizard-auth
dropwizard-example
dropwizard-forms
dropwizard-views
dropwizard-views-freemarker
dropwizard-views-mustache
dropwizard-testing
dropwizard-util
dropwizard-jackson
dropwizard-validation
dropwizard-configuration
dropwizard-logging
dropwizard-metrics
dropwizard-metrics-graphite
dropwizard-jersey
dropwizard-jetty
dropwizard-servlets
dropwizard-lifecycle
dropwizard-assets
dropwizard-archetypes
dropwizard-benchmarks
dropwizard-http2
dropwizard-request-logging
dropwizard-e2e
dropwizard-json-logging

*****************************************
Compile Dependencies
*****************************************

net.sourceforge.argparse4j » argparse4j 0.8.1
COPYRIGHT and LICENSE:
 * Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
```

```
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.



---------------------
org.eclipse.jetty.toolchain.setuid » jetty-setuid-java 1.0.3
COPYRIGHT: Copyright (c) 1995-2018 Mort Bay Consulting Pty. Ltd.
LICENSE:

//  All rights reserved. This program and the accompanying materials
//  are made available under the terms of the Eclipse Public License v1.0
//  and Apache License v2.0 which accompanies this distribution.
//
//      The Eclipse Public License is available at
//      http://www.eclipse.org/legal/epl-v10.html
//
//      The Apache License v2.0 is available at
//      http://www.opensource.org/licenses/apache2.0.php
//
//  You may elect to redistribute this code under either of these licenses.

Oracle elects the terms of Apache 2.0 license.

---------------------
org.apache.httpcomponents » httpclient 4.5.7
COPYRIGHT: Copyright 1999-2019 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-client/
blob/4.5.7/LICENSE.txt


---------------------
org.apache.tomcat » tomcat-jdbc 9.0.16
COPYRIGHT: Copyright 1999-2019 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/tomcat/blob/9.0.16/LICENSE


Apache Tomcat
Copyright 1999-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This software contains code derived from netty-native
developed by the Netty project
(https://netty.io, https://github.com/netty/netty-tcnative/)
and from finagle-native developed at Twitter
(https://github.com/twitter/finagle).

This software contains code derived from jgroups-kubernetes
developed by the JGroups project (http://www.jgroups.org/).

The Windows Installer is built with the Nullsoft
Scriptable Install System (NSIS), which is
open source software.  The original software and
related information is available at
http://nsis.sourceforge.net.
```

```
Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
are derivative work originating from the Netty project and the finagle-
native
project developed at Twitter
* Copyright 2014 The Netty Project
* Copyright 2014 Twitter

For portions of the Tomcat cloud support
The org.apache.catalina.tribes.membership.cloud package contains derivative
work originating from the jgroups project.
https://github.com/jgroups-extras/jgroups-kubernetes
Copyright 2002-2018 Red Hat Inc.

The original XML Schemas for Java EE Deployment Descriptors:
 - javaee_5.xsd
 - javaee_web_services_1_2.xsd
 - javaee_web_services_client_1_2.xsd
 - javaee_6.xsd
 - javaee_web_services_1_3.xsd
 - javaee_web_services_client_1_3.xsd
 - jsp_2_2.xsd
 - web-app_3_0.xsd
 - web-common_3_0.xsd
 - web-fragment_3_0.xsd
 - javaee_7.xsd
 - javaee_web_services_1_4.xsd
 - javaee_web_services_client_1_4.xsd
 - jsp_2_3.xsd
 - web-app_3_1.xsd
 - web-common_3_1.xsd
 - web-fragment_3_1.xsd
 - javaee_8.xsd
 - web-app_4_0.xsd
 - web-common_4_0.xsd
 - web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html



---------------------
org.jdbi » jdbi 2.78
COPYRIGHT: Copyright (C) 2004 - 2015 Brian McCallister
LICENSE: Apache 2.0 https://github.com/jdbi/jdbi/blob/jdbi-2.78/LICENSE



---------------------
org.jdbi » jdbi3-core 3.5.1
org.jdbi » jdbi3-sqlobject 3.5.1
org.jdbi » jdbi3-jodatime2 3.5.1
org.jdbi » jdbi3-guava 3.5.1
```

```
COPYRIGHT: Copyright (C) 2004 - 2015 Brian McCallister

LICENSE: Apache 2.0 https://github.com/jdbi/jdbi/blob/v3.5.1/LICENSE



---------------------
com.mattbertolini » liquibase-slf4j 2.0.0
COPYRIGHT and LICENSE:

Copyright (c) 2012-2015 Matt Bertolini

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated
documentation files (the "Software"), to deal in the Software without
 restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER DEALINGS IN THE SOFTWARE.



---------------------
org.liquibase » liquibase-core 3.6.3
COPYRIGHT:
Copyright 2013 Mark Rogers.
Copyright: Copyright(c) 2007 Trace Financial Limited

LICENSE: Apache 2.0 https://github.com/liquibase/liquibase/blob/liquibase-
parent-3.6.3/LICENSE.txt


---------------------
org.jadira.usertype » usertype.core 7.0.0.CR1
COPYRIGHT: Copyright 2010 - 2013 Chris Pheby
LICENSE: Apache 2.0 https://github.com/JadiraOrg/jadira/blob/
jadira.parent-7.0.0.CR1/LICENSE.txt

---------------------
com.fasterxml.jackson.datatype jackson-datatype-hibernate5 2.9.8
COPYRIGHT:

Here are people who have contributed to development Jackson JSON processor
Hibernate module,  version 2.x
(version numbers in brackets indicate release in which the problem was
 fixed)

Tatu Saloranta, tatu.saloranta@iki.fi: author
```

```
------------
Contributors
------------

Daan van Dijk (drvdijk@github):

#39: NullPointerException trying to serialize ManyToMany proxied values
 (2.2.3)

Edouard Oger (eoger@github)

#25/#59: Allow passing of `SessionFactory` to help with forced lazy-loading
 (2.5.0)

 M. Tarik Yurt (mtyurt@github)

#67: Provide support for Hibernate 5.x
 (2.6.0)

Tiago Peruzzo (peruzzo@github)

#70: Infinite recursion due to `@JsonIgnoreProperties` not passed to
 property
(2.6.5)

LICENSE:

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0


---------------------
org.freemarker » freemarker 2.3.28
COPYRIGHT: Copyright 2015-2018 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/freemarker/blob/v2.3.28/
LICENSE

---------------------
com.github.spullara.mustache.java » compiler 0.9.6
COPYRIGHT: Copyright 2010 RightTime, Inc.
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0


---------------------
org.assertj » assertj-core 3.9.1
COPYRIGHT: Copyright 2012-2019 the original author or authors.
LICENSE: Apache 2.0 https://github.com/joel-costigliola/assertj-core/blob/
assertj-core-3.9.1/LICENSE.txt



---------------------
org.objenesis » objenesis 2.6
COPYRIGHT: Copyright (c) 2003-2013, Objenesis Team and all contributors
LICENSE: Apache 2.0 https://github.com/easymock/objenesis/blob/2.6/
LICENSE.txt
```

```
---------------------
com.fasterxml.jackson.core » jackson-annotations 2.9.8
com.fasterxml.jackson.core » jackson-core 2.9.8
com.fasterxml.jackson.core » jackson-databind 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-guava 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-jsr310 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-jdk8 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-joda 2.9.8
com.fasterxml.jackson.module » jackson-module-parameter-names 2.9.8
com.fasterxml.jackson.module » jackson-module-afterburner 2.9.8

COPYRIGHT:
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
COPYRIGHT (c) 2013 Fasterxml

LICENSE: Apache 2.0 https://www.apache.org/licenses/LICENSE-2.0



---------------------
com.google.code.findbugs » jsr305 3.0.2
COPYRIGHT and LICENSE:
> Copyright (c) JSR305 expert group
> All rights reserved.
>
> Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
>
>     Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
>     Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
>
> THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---------------------
com.google.guava » guava 24.1.1-jre
COPYRIGHT: Copyright (C) 2008 The Guava Authors
LICENSE: Apache 2.0 https://github.com/google/guava/blob/v24.1.1/COPYING



---------------------
joda-time 2.10.1
COPYRIGHT: Copyright 2001-2015 Stephen Colebourne
LICENSE: Apache 2.0 https://github.com/JodaOrg/joda-time/blob/v2.10.1/
LICENSE.txt
```

```
---------------------
org.slf4j » slf4j-api 1.7.26
org.slf4j » jul-to-slf4j 1.7.26
org.slf4j » log4j-over-slf4j 1.7.26
org.slf4j » jcl-over-slf4j 1.7.26

COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



---------------------
com.github.ben-manes.caffeine 2.7.0
COPYRIGHT: Copyright 2015 Ben Manes. All Rights Reserved.
LICENSE: Apache 2.0 https://github.com/ben-manes/caffeine/blob/v2.7.0/
LICENSE




---------------------
org.hibernate » hibernate-validator 5.4.3.Final
COPYRIGHT: Copyright (C) 2004, 2006 The Linux Foundation and its
 contributors.
LICENSE: Apache 2.0 https://github.com/hibernate/hibernate-validator/
blob/5.4.3.Final/license.txt


---------------------
org.javassist » javassist 3.24.1-GA
COPYRIGHT and LICENSE:
Java bytecode engineering toolkit
Javassist version 3

Copyright (C) 1999-2018 by Shigeru Chiba, All rights reserved.

Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
 simple. It is a class library for editing bytecodes in Java; it enables
 Java programs to define a new class at runtime and to modify a class file
 when the JVM loads it. Unlike other similar bytecode editors, Javassist
 provides two levels of API: source level and bytecode level. If the users
 use the source- level API, they can edit a class file without knowledge
 of the specifications of the Java bytecode. The whole API is designed with
```

```
 only the vocabulary of the Java language. You can even specify inserted
 bytecode in the form of source text; Javassist compiles it on the fly. On
 the other hand, the bytecode-level API allows the users to directly edit a
 class file as other editors.

This software is distributed under the Mozilla Public License Version 1.1,
 the GNU Lesser General Public License Version 2.1 or later, or the Apache
 License Version 2.0.

===
Oracle elects the terms of Apache 2.0 license.
Apache 2.0: https://www.apache.org/licenses/LICENSE-2.0

---------------------
org.apache.commons » commons-text 1.2
COPYRIGHT: Copyright 2001-2017 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/commons-text/blob/commons-
text-1.2/LICENSE.txt


---------------------
---------------------
io.dropwizard.metrics » metrics-logback 4.0.5
io.dropwizard.metrics » metrics-core 4.0.5
io.dropwizard.metrics » metrics-graphite 4.0.5
io.dropwizard.metrics » metrics-jetty9 4.0.5
io.dropwizard.metrics » metrics-annotation 4.0.5
io.dropwizard.metrics » metrics-core 4.0.5


COPYRIGHT: Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2017
 Dropwizard Team
LICENSE: Apache 2.0 https://github.com/dropwizard/metrics/blob/v4.0.5/
LICENSE

This product includes software developed by Coda Hale and Yammer, Inc.

This product includes code derived from the JSR-166 project
 (ThreadLocalRandom, Striped64,
LongAdder), which was released with the following comments:

    Written by Doug Lea with assistance from members of JCP JSR-166
    Expert Group and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/



CC0 1.0 Universal
Official translations of this legal tool are available in other languages.

    CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
 LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-
CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-
IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS
 DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS
 LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE
 INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
 exclusive Copyright and Related Rights (defined below) upon the creator
 and subsequent owner(s) (each and all, an "owner") of an original work of
 authorship and/or a database (each, a "Work").
```

```
Certain owners wish to permanently relinquish those rights to a Work for the
 purpose of contributing to a commons of creative, cultural and scientific
 works ("Commons") that the public can reliably and without fear of later
 claims of infringement build upon, modify, incorporate in other works,
 reuse and redistribute as freely as possible in any form whatsoever and
 for any purposes, including without limitation commercial purposes. These
 owners may contribute to the Commons to promote the ideal of a free culture
 and the further production of creative, cultural and scientific works, or
 to gain reputation or greater distribution for their Work in part through
 the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of additional consideration or compensation, the person associating CC0
 with a Work (the "Affirmer"), to the extent that he or she is an owner
 of Copyright and Related Rights in the Work, voluntarily elects to apply
 CC0 to the Work and publicly distribute the Work under its terms, with
 knowledge of his or her Copyright and Related Rights in the Work and the
 meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
 protected by copyright and related or neighboring rights ("Copyright and
 Related Rights"). Copyright and Related Rights include, but are not limited
 to, the following:

    the right to reproduce, adapt, distribute, perform, display,
 communicate, and translate a Work;
    moral rights retained by the original author(s) and/or performer(s);
    publicity and privacy rights pertaining to a person's image or likeness
 depicted in a Work;
    rights protecting against unfair competition in regards to a Work,
 subject to the limitations in paragraph 4(a), below;
    rights protecting the extraction, dissemination, use and reuse of data
 in a Work;
    database rights (such as those arising under Directive 96/9/EC of
 the European Parliament and of the Council of 11 March 1996 on the legal
 protection of databases, and under any national implementation thereof,
 including any amended or successor version of such directive); and
    other similar, equivalent or corresponding rights throughout the
 world based on applicable law or treaty, and any national implementations
 thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of,
 applicable law, Affirmer hereby overtly, fully, permanently, irrevocably
 and unconditionally waives, abandons, and surrenders all of Affirmer's
 Copyright and Related Rights and associated claims and causes of action,
 whether now known or unknown (including existing as well as future claims
 and causes of action), in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "Waiver").
 Affirmer makes the Waiver for the benefit of each member of the public
 at large and to the detriment of Affirmer's heirs and successors, fully
 intending that such Waiver shall not be subject to revocation, rescission,
 cancellation, termination, or any other legal or equitable action to
 disrupt the quiet enjoyment of the Work by the public as contemplated by
 Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
 be judged legally invalid or ineffective under applicable law, then the
 Waiver shall be preserved to the maximum extent permitted taking into
 account Affirmer's express Statement of Purpose. In addition, to the
 extent the Waiver is so judged Affirmer hereby grants to each affected
```

```
 person a royalty-free, non transferable, non sublicensable, non exclusive,
 irrevocable and unconditional license to exercise Affirmer's Copyright
 and Related Rights in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "License").
 The License shall be deemed effective as of the date CC0 was applied by
 Affirmer to the Work. Should any part of the License for any reason be
 judged legally invalid or ineffective under applicable law, such partial
 invalidity or ineffectiveness shall not invalidate the remainder of the
 License, and in such case Affirmer hereby affirms that he or she will
 not (i) exercise any of his or her remaining Copyright and Related Rights
 in the Work or (ii) assert any associated claims and causes of action
 with respect to the Work, in either case contrary to Affirmer's express
 Statement of Purpose.

4. Limitations and Disclaimers.

    No trademark or patent rights held by Affirmer are waived, abandoned,
 surrendered, licensed or otherwise affected by this document.
    Affirmer offers the Work as-is and makes no representations or
 warranties of any kind concerning the Work, express, implied, statutory
 or otherwise, including without limitation warranties of title,
 merchantability, fitness for a particular purpose, non infringement, or the
 absence of latent or other defects, accuracy, or the present or absence of
 errors, whether or not discoverable, all to the greatest extent permissible
 under applicable law.
    Affirmer disclaims responsibility for clearing rights of other persons
 that may apply to the Work or any use thereof, including without limitation
 any person's Copyright and Related Rights in the Work. Further, Affirmer
 disclaims responsibility for obtaining any necessary consents, permissions
 or other rights required for any use of the Work.
    Affirmer understands and acknowledges that Creative Commons is not a
 party to this document and has no duty or obligation with respect to this
 CC0 or use of the Work.



---------------------
org.eclipse.jetty » jetty-util 9.4.14.v20181114
org.eclipse.jetty » jetty-server 9.4.14.v20181114
org.eclipse.jetty » jetty-servlet 9.4.14.v20181114
org.eclipse.jetty » jetty-servlets 9.4.14.v20181114
org.eclipse.jetty » jetty-webapp 9.4.14.v20181114
org.eclipse.jetty » jetty-continuation 9.4.14.v20181114
org.eclipse.jetty » jetty-http 9.4.14.v20181114
org.eclipse.jetty » jetty-alpn-openjdk8-server 9.4.14.v20181114
org.eclipse.jetty.http2 » http2-server 9.4.14.v20181114


COPYRIGHT:  Copyright 1995-2018 Mort Bay Consulting Pty Ltd.
LICENSE: Apache 2.0 + EPL v1.0

The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
unless otherwise noted.

Jetty is dual licensed under both

  * The Apache 2.0 License
    http://www.apache.org/licenses/LICENSE-2.0.html

      and
```

```
  * The Eclipse Public 1.0 License
    http://www.eclipse.org/legal/epl-v10.html

Jetty may be distributed under either license.

Oracle elects the terms of Apache 2.0 license

NOTICE FILE:
------
Eclipse

The following artifacts are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message


The following artifacts are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

------
OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm


------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl


------
MortBay

The following artifacts are ASL2 licensed.  Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
  org.apache.tomcat:tomcat-jasper
  org.apache.tomcat:tomcat-juli
  org.apache.tomcat:tomcat-jsp-api
  org.apache.tomcat:tomcat-el-api
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-api
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-el-api


------
Mortbay
```

```
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.

---------------------
classmate 1.4.0
COPYRIGHT: (C) Fasterxml
LICENSE: Apache 2.0

This copy of Java ClassMate library is licensed under Apache (Software)
 License,
version 2.0 ("the License").
See the License for details about distribution rights, and the specific
 rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0


----------------------------------
```

Provider: Coda Hale and Yammer / Component(s): DropWizard 1.3.15

```
Dropwizard 1.3.9
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2016 Dropwizard Team
This product includes software developed by Coda Hale and Yammer, Inc.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
```

```
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
```

```
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
```

```
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


*****************************************
Modules:
*****************************************

docs
dropwizard-bom
dropwizard-core
dropwizard-client
dropwizard-db
dropwizard-jdbi
dropwizard-jdbi3
dropwizard-migrations
dropwizard-hibernate
dropwizard-auth
dropwizard-example
dropwizard-forms
dropwizard-views
dropwizard-views-freemarker
dropwizard-views-mustache
dropwizard-testing
dropwizard-util
dropwizard-jackson
dropwizard-validation
dropwizard-configuration
dropwizard-logging
dropwizard-metrics
dropwizard-metrics-graphite
dropwizard-jersey
dropwizard-jetty
dropwizard-servlets
dropwizard-lifecycle
dropwizard-assets
dropwizard-archetypes
dropwizard-benchmarks
dropwizard-http2
dropwizard-request-logging
dropwizard-e2e
dropwizard-json-logging

*****************************************
Compile Dependencies
*****************************************

net.sourceforge.argparse4j » argparse4j 0.8.1
COPYRIGHT and LICENSE:
 * Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
```

```
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.



---------------------
org.eclipse.jetty.toolchain.setuid » jetty-setuid-java 1.0.3
COPYRIGHT: Copyright (c) 1995-2018 Mort Bay Consulting Pty. Ltd.
LICENSE:

//  All rights reserved. This program and the accompanying materials
//  are made available under the terms of the Eclipse Public License v1.0
//  and Apache License v2.0 which accompanies this distribution.
//
//      The Eclipse Public License is available at
//      http://www.eclipse.org/legal/epl-v10.html
//
//      The Apache License v2.0 is available at
//      http://www.opensource.org/licenses/apache2.0.php
//
//  You may elect to redistribute this code under either of these licenses.

Oracle elects the terms of Apache 2.0 license.

---------------------
org.apache.httpcomponents » httpclient 4.5.7
COPYRIGHT: Copyright 1999-2019 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-client/
blob/4.5.7/LICENSE.txt


---------------------
org.apache.tomcat » tomcat-jdbc 9.0.16
COPYRIGHT: Copyright 1999-2019 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/tomcat/blob/9.0.16/LICENSE


Apache Tomcat
Copyright 1999-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This software contains code derived from netty-native
developed by the Netty project
(https://netty.io, https://github.com/netty/netty-tcnative/)
```

```
and from finagle-native developed at Twitter
(https://github.com/twitter/finagle).

This software contains code derived from jgroups-kubernetes
developed by the JGroups project (http://www.jgroups.org/).

The Windows Installer is built with the Nullsoft
Scriptable Install System (NSIS), which is
open source software.  The original software and
related information is available at
http://nsis.sourceforge.net.

Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
are derivative work originating from the Netty project and the finagle-
native
project developed at Twitter
* Copyright 2014 The Netty Project
* Copyright 2014 Twitter

For portions of the Tomcat cloud support
The org.apache.catalina.tribes.membership.cloud package contains derivative
work originating from the jgroups project.
https://github.com/jgroups-extras/jgroups-kubernetes
Copyright 2002-2018 Red Hat Inc.

The original XML Schemas for Java EE Deployment Descriptors:
 - javaee_5.xsd
 - javaee_web_services_1_2.xsd
 - javaee_web_services_client_1_2.xsd
 - javaee_6.xsd
 - javaee_web_services_1_3.xsd
 - javaee_web_services_client_1_3.xsd
 - jsp_2_2.xsd
 - web-app_3_0.xsd
 - web-common_3_0.xsd
 - web-fragment_3_0.xsd
 - javaee_7.xsd
 - javaee_web_services_1_4.xsd
 - javaee_web_services_client_1_4.xsd
 - jsp_2_3.xsd
 - web-app_3_1.xsd
 - web-common_3_1.xsd
 - web-fragment_3_1.xsd
 - javaee_8.xsd
 - web-app_4_0.xsd
 - web-common_4_0.xsd
 - web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html



----------------------
```

```
org.jdbi » jdbi 2.78
COPYRIGHT: Copyright (C) 2004 - 2015 Brian McCallister
LICENSE: Apache 2.0 https://github.com/jdbi/jdbi/blob/jdbi-2.78/LICENSE



---------------------
org.jdbi » jdbi3-core 3.5.1
org.jdbi » jdbi3-sqlobject 3.5.1
org.jdbi » jdbi3-jodatime2 3.5.1
org.jdbi » jdbi3-guava 3.5.1

COPYRIGHT: Copyright (C) 2004 - 2015 Brian McCallister

LICENSE: Apache 2.0 https://github.com/jdbi/jdbi/blob/v3.5.1/LICENSE



---------------------
com.mattbertolini » liquibase-slf4j 2.0.0
COPYRIGHT and LICENSE:

Copyright (c) 2012-2015 Matt Bertolini

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated
documentation files (the "Software"), to deal in the Software without
 restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER DEALINGS IN THE SOFTWARE.



---------------------
org.liquibase » liquibase-core 3.6.3
COPYRIGHT:
Copyright 2013 Mark Rogers.
Copyright: Copyright(c) 2007 Trace Financial Limited

LICENSE: Apache 2.0 https://github.com/liquibase/liquibase/blob/liquibase-
parent-3.6.3/LICENSE.txt


---------------------
org.jadira.usertype » usertype.core 7.0.0.CR1
COPYRIGHT: Copyright 2010 - 2013 Chris Pheby
LICENSE: Apache 2.0 https://github.com/JadiraOrg/jadira/blob/
jadira.parent-7.0.0.CR1/LICENSE.txt
```

```
---------------------
com.fasterxml.jackson.datatype jackson-datatype-hibernate5 2.9.8
COPYRIGHT:

Here are people who have contributed to development Jackson JSON processor
Hibernate module,  version 2.x
(version numbers in brackets indicate release in which the problem was
 fixed)

Tatu Saloranta, tatu.saloranta@iki.fi: author

------------
Contributors
------------

Daan van Dijk (drvdijk@github):

#39: NullPointerException trying to serialize ManyToMany proxied values
 (2.2.3)

Edouard Oger (eoger@github)

#25/#59: Allow passing of `SessionFactory` to help with forced lazy-loading
 (2.5.0)

 M. Tarik Yurt (mtyurt@github)

#67: Provide support for Hibernate 5.x
 (2.6.0)

Tiago Peruzzo (peruzzo@github)

#70: Infinite recursion due to `@JsonIgnoreProperties` not passed to
 property
(2.6.5)

LICENSE:

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0


---------------------
org.freemarker » freemarker 2.3.28
COPYRIGHT: Copyright 2015-2018 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/freemarker/blob/v2.3.28/
LICENSE

---------------------
com.github.spullara.mustache.java » compiler 0.9.6
COPYRIGHT: Copyright 2010 RightTime, Inc.
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0


---------------------
org.assertj » assertj-core 3.9.1
COPYRIGHT: Copyright 2012-2019 the original author or authors.
```

```
LICENSE: Apache 2.0 https://github.com/joel-costigliola/assertj-core/blob/
assertj-core-3.9.1/LICENSE.txt



---------------------
org.objenesis » objenesis 2.6
COPYRIGHT: Copyright (c) 2003-2013, Objenesis Team and all contributors
LICENSE: Apache 2.0 https://github.com/easymock/objenesis/blob/2.6/
LICENSE.txt



---------------------
com.fasterxml.jackson.core » jackson-annotations 2.9.8
com.fasterxml.jackson.core » jackson-core 2.9.8
com.fasterxml.jackson.core » jackson-databind 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-guava 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-jsr310 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-jdk8 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-joda 2.9.8
com.fasterxml.jackson.module » jackson-module-parameter-names 2.9.8
com.fasterxml.jackson.module » jackson-module-afterburner 2.9.8

COPYRIGHT:
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
COPYRIGHT (c) 2013 Fasterxml

LICENSE: Apache 2.0 https://www.apache.org/licenses/LICENSE-2.0



---------------------
com.google.code.findbugs » jsr305 3.0.2
COPYRIGHT and LICENSE:
> Copyright (c) JSR305 expert group
> All rights reserved.
>
> Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
>
>     Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
>     Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
>
> THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---------------------
com.google.guava » guava 24.1.1-jre
COPYRIGHT: Copyright (C) 2008 The Guava Authors
```

```
LICENSE: Apache 2.0 https://github.com/google/guava/blob/v24.1.1/COPYING



---------------------
joda-time 2.10.1
COPYRIGHT: Copyright 2001-2015 Stephen Colebourne
LICENSE: Apache 2.0 https://github.com/JodaOrg/joda-time/blob/v2.10.1/
LICENSE.txt



---------------------
org.slf4j » slf4j-api 1.7.26
org.slf4j » jul-to-slf4j 1.7.26
org.slf4j » log4j-over-slf4j 1.7.26
org.slf4j » jcl-over-slf4j 1.7.26

COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



---------------------
com.github.ben-manes.caffeine 2.7.0
COPYRIGHT: Copyright 2015 Ben Manes. All Rights Reserved.
LICENSE: Apache 2.0 https://github.com/ben-manes/caffeine/blob/v2.7.0/
LICENSE




---------------------
org.hibernate » hibernate-validator 5.4.3.Final
COPYRIGHT: Copyright (C) 2004, 2006 The Linux Foundation and its
 contributors.
LICENSE: Apache 2.0 https://github.com/hibernate/hibernate-validator/
blob/5.4.3.Final/license.txt


---------------------
org.javassist » javassist 3.24.1-GA
COPYRIGHT and LICENSE:
Java bytecode engineering toolkit
```

```
Javassist version 3

Copyright (C) 1999-2018 by Shigeru Chiba, All rights reserved.

Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
 simple. It is a class library for editing bytecodes in Java; it enables
 Java programs to define a new class at runtime and to modify a class file
 when the JVM loads it. Unlike other similar bytecode editors, Javassist
 provides two levels of API: source level and bytecode level. If the users
 use the source- level API, they can edit a class file without knowledge
 of the specifications of the Java bytecode. The whole API is designed with
 only the vocabulary of the Java language. You can even specify inserted
 bytecode in the form of source text; Javassist compiles it on the fly. On
 the other hand, the bytecode-level API allows the users to directly edit a
 class file as other editors.

This software is distributed under the Mozilla Public License Version 1.1,
 the GNU Lesser General Public License Version 2.1 or later, or the Apache
 License Version 2.0.

===
Oracle elects the terms of Apache 2.0 license.
Apache 2.0: https://www.apache.org/licenses/LICENSE-2.0

---------------------
org.apache.commons » commons-text 1.2
COPYRIGHT: Copyright 2001-2017 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/commons-text/blob/commons-
text-1.2/LICENSE.txt


---------------------
---------------------
io.dropwizard.metrics » metrics-logback 4.0.5
io.dropwizard.metrics » metrics-core 4.0.5
io.dropwizard.metrics » metrics-graphite 4.0.5
io.dropwizard.metrics » metrics-jetty9 4.0.5
io.dropwizard.metrics » metrics-annotation 4.0.5
io.dropwizard.metrics » metrics-core 4.0.5


COPYRIGHT: Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2017
 Dropwizard Team
LICENSE: Apache 2.0 https://github.com/dropwizard/metrics/blob/v4.0.5/
LICENSE

This product includes software developed by Coda Hale and Yammer, Inc.

This product includes code derived from the JSR-166 project
 (ThreadLocalRandom, Striped64,
LongAdder), which was released with the following comments:

    Written by Doug Lea with assistance from members of JCP JSR-166
    Expert Group and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/



CC0 1.0 Universal
Official translations of this legal tool are available in other languages.

    CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
 LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-
CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-
```

```
IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS
 DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS
 LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE
 INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
 exclusive Copyright and Related Rights (defined below) upon the creator
 and subsequent owner(s) (each and all, an "owner") of an original work of
 authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the
 purpose of contributing to a commons of creative, cultural and scientific
 works ("Commons") that the public can reliably and without fear of later
 claims of infringement build upon, modify, incorporate in other works,
 reuse and redistribute as freely as possible in any form whatsoever and
 for any purposes, including without limitation commercial purposes. These
 owners may contribute to the Commons to promote the ideal of a free culture
 and the further production of creative, cultural and scientific works, or
 to gain reputation or greater distribution for their Work in part through
 the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of additional consideration or compensation, the person associating CC0
 with a Work (the "Affirmer"), to the extent that he or she is an owner
 of Copyright and Related Rights in the Work, voluntarily elects to apply
 CC0 to the Work and publicly distribute the Work under its terms, with
 knowledge of his or her Copyright and Related Rights in the Work and the
 meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
 protected by copyright and related or neighboring rights ("Copyright and
 Related Rights"). Copyright and Related Rights include, but are not limited
 to, the following:

    the right to reproduce, adapt, distribute, perform, display,
 communicate, and translate a Work;
    moral rights retained by the original author(s) and/or performer(s);
    publicity and privacy rights pertaining to a person's image or likeness
 depicted in a Work;
    rights protecting against unfair competition in regards to a Work,
 subject to the limitations in paragraph 4(a), below;
    rights protecting the extraction, dissemination, use and reuse of data
 in a Work;
    database rights (such as those arising under Directive 96/9/EC of
 the European Parliament and of the Council of 11 March 1996 on the legal
 protection of databases, and under any national implementation thereof,
 including any amended or successor version of such directive); and
    other similar, equivalent or corresponding rights throughout the
 world based on applicable law or treaty, and any national implementations
 thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of,
 applicable law, Affirmer hereby overtly, fully, permanently, irrevocably
 and unconditionally waives, abandons, and surrenders all of Affirmer's
 Copyright and Related Rights and associated claims and causes of action,
 whether now known or unknown (including existing as well as future claims
 and causes of action), in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "Waiver").
 Affirmer makes the Waiver for the benefit of each member of the public
```

```
 at large and to the detriment of Affirmer's heirs and successors, fully
 intending that such Waiver shall not be subject to revocation, rescission,
 cancellation, termination, or any other legal or equitable action to
 disrupt the quiet enjoyment of the Work by the public as contemplated by
 Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
 be judged legally invalid or ineffective under applicable law, then the
 Waiver shall be preserved to the maximum extent permitted taking into
 account Affirmer's express Statement of Purpose. In addition, to the
 extent the Waiver is so judged Affirmer hereby grants to each affected
 person a royalty-free, non transferable, non sublicensable, non exclusive,
 irrevocable and unconditional license to exercise Affirmer's Copyright
 and Related Rights in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "License").
 The License shall be deemed effective as of the date CC0 was applied by
 Affirmer to the Work. Should any part of the License for any reason be
 judged legally invalid or ineffective under applicable law, such partial
 invalidity or ineffectiveness shall not invalidate the remainder of the
 License, and in such case Affirmer hereby affirms that he or she will
 not (i) exercise any of his or her remaining Copyright and Related Rights
 in the Work or (ii) assert any associated claims and causes of action
 with respect to the Work, in either case contrary to Affirmer's express
 Statement of Purpose.

4. Limitations and Disclaimers.

    No trademark or patent rights held by Affirmer are waived, abandoned,
 surrendered, licensed or otherwise affected by this document.
    Affirmer offers the Work as-is and makes no representations or
 warranties of any kind concerning the Work, express, implied, statutory
 or otherwise, including without limitation warranties of title,
 merchantability, fitness for a particular purpose, non infringement, or the
 absence of latent or other defects, accuracy, or the present or absence of
 errors, whether or not discoverable, all to the greatest extent permissible
 under applicable law.
    Affirmer disclaims responsibility for clearing rights of other persons
 that may apply to the Work or any use thereof, including without limitation
 any person's Copyright and Related Rights in the Work. Further, Affirmer
 disclaims responsibility for obtaining any necessary consents, permissions
 or other rights required for any use of the Work.
    Affirmer understands and acknowledges that Creative Commons is not a
 party to this document and has no duty or obligation with respect to this
 CC0 or use of the Work.



---------------------
org.eclipse.jetty » jetty-util 9.4.14.v20181114
org.eclipse.jetty » jetty-server 9.4.14.v20181114
org.eclipse.jetty » jetty-servlet 9.4.14.v20181114
org.eclipse.jetty » jetty-servlets 9.4.14.v20181114
org.eclipse.jetty » jetty-webapp 9.4.14.v20181114
org.eclipse.jetty » jetty-continuation 9.4.14.v20181114
org.eclipse.jetty » jetty-http 9.4.14.v20181114
org.eclipse.jetty » jetty-alpn-openjdk8-server 9.4.14.v20181114
org.eclipse.jetty.http2 » http2-server 9.4.14.v20181114


COPYRIGHT:  Copyright 1995-2018 Mort Bay Consulting Pty Ltd.
LICENSE: Apache 2.0 + EPL v1.0
```

```
The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
unless otherwise noted.

Jetty is dual licensed under both

  * The Apache 2.0 License
    http://www.apache.org/licenses/LICENSE-2.0.html

      and

  * The Eclipse Public 1.0 License
    http://www.eclipse.org/legal/epl-v10.html

Jetty may be distributed under either license.

Oracle elects the terms of Apache 2.0 license

NOTICE FILE:
------
Eclipse

The following artifacts are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message


The following artifacts are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

------
OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm


------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl


------
MortBay

The following artifacts are ASL2 licensed.  Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
  org.apache.tomcat:tomcat-jasper
  org.apache.tomcat:tomcat-juli
  org.apache.tomcat:tomcat-jsp-api
  org.apache.tomcat:tomcat-el-api
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-api
```

```
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-el-api


------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.

---------------------
classmate 1.4.0
COPYRIGHT: (C) Fasterxml
LICENSE: Apache 2.0

This copy of Java ClassMate library is licensed under Apache (Software)
 License,
version 2.0 ("the License").
See the License for details about distribution rights, and the specific
 rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0


----------------------------------
```

Provider: Coda Hale and Yammer, Inc. / Component(s): DropWizard 1.3.9

```
Dropwizard 1.3.9
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2016 Dropwizard Team
This product includes software developed by Coda Hale and Yammer, Inc.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
```

```
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
```

```
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


*****************************************
Modules:
*****************************************

docs
dropwizard-bom
dropwizard-core
dropwizard-client
dropwizard-db
dropwizard-jdbi
dropwizard-jdbi3
dropwizard-migrations
dropwizard-hibernate
dropwizard-auth
dropwizard-example
dropwizard-forms
dropwizard-views
dropwizard-views-freemarker
dropwizard-views-mustache
dropwizard-testing
dropwizard-util
dropwizard-jackson
dropwizard-validation
dropwizard-configuration
dropwizard-logging
dropwizard-metrics
dropwizard-metrics-graphite
dropwizard-jersey
dropwizard-jetty
dropwizard-servlets
dropwizard-lifecycle
dropwizard-assets
dropwizard-archetypes
dropwizard-benchmarks
dropwizard-http2
```

```
dropwizard-request-logging
dropwizard-e2e
dropwizard-json-logging

*****************************************
Compile Dependencies
*****************************************

net.sourceforge.argparse4j » argparse4j 0.8.1
COPYRIGHT and LICENSE:
 * Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.



---------------------
org.eclipse.jetty.toolchain.setuid » jetty-setuid-java 1.0.3
COPYRIGHT: Copyright (c) 1995-2018 Mort Bay Consulting Pty. Ltd.
LICENSE:

//  All rights reserved. This program and the accompanying materials
//  are made available under the terms of the Eclipse Public License v1.0
//  and Apache License v2.0 which accompanies this distribution.
//
//      The Eclipse Public License is available at
//      http://www.eclipse.org/legal/epl-v10.html
//
//      The Apache License v2.0 is available at
//      http://www.opensource.org/licenses/apache2.0.php
//
//  You may elect to redistribute this code under either of these licenses.

Oracle elects the terms of Apache 2.0 license.

---------------------
org.apache.httpcomponents » httpclient 4.5.7
COPYRIGHT: Copyright 1999-2019 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/httpcomponents-client/
blob/4.5.7/LICENSE.txt


---------------------
org.apache.tomcat » tomcat-jdbc 9.0.16
COPYRIGHT: Copyright 1999-2019 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/tomcat/blob/9.0.16/LICENSE
```

```
Apache Tomcat
Copyright 1999-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This software contains code derived from netty-native
developed by the Netty project
(https://netty.io, https://github.com/netty/netty-tcnative/)
and from finagle-native developed at Twitter
(https://github.com/twitter/finagle).

This software contains code derived from jgroups-kubernetes
developed by the JGroups project (http://www.jgroups.org/).

The Windows Installer is built with the Nullsoft
Scriptable Install System (NSIS), which is
open source software.  The original software and
related information is available at
http://nsis.sourceforge.net.

Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
are derivative work originating from the Netty project and the finagle-
native
project developed at Twitter
* Copyright 2014 The Netty Project
* Copyright 2014 Twitter

For portions of the Tomcat cloud support
The org.apache.catalina.tribes.membership.cloud package contains derivative
work originating from the jgroups project.
https://github.com/jgroups-extras/jgroups-kubernetes
Copyright 2002-2018 Red Hat Inc.

The original XML Schemas for Java EE Deployment Descriptors:
 - javaee_5.xsd
 - javaee_web_services_1_2.xsd
 - javaee_web_services_client_1_2.xsd
 - javaee_6.xsd
 - javaee_web_services_1_3.xsd
 - javaee_web_services_client_1_3.xsd
 - jsp_2_2.xsd
 - web-app_3_0.xsd
 - web-common_3_0.xsd
 - web-fragment_3_0.xsd
 - javaee_7.xsd
 - javaee_web_services_1_4.xsd
 - javaee_web_services_client_1_4.xsd
 - jsp_2_3.xsd
 - web-app_3_1.xsd
 - web-common_3_1.xsd
 - web-fragment_3_1.xsd
```

```
 - javaee_8.xsd
 - web-app_4_0.xsd
 - web-common_4_0.xsd
 - web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html



---------------------
org.jdbi » jdbi 2.78
COPYRIGHT: Copyright (C) 2004 - 2015 Brian McCallister
LICENSE: Apache 2.0 https://github.com/jdbi/jdbi/blob/jdbi-2.78/LICENSE



---------------------
org.jdbi » jdbi3-core 3.5.1
org.jdbi » jdbi3-sqlobject 3.5.1
org.jdbi » jdbi3-jodatime2 3.5.1
org.jdbi » jdbi3-guava 3.5.1

COPYRIGHT: Copyright (C) 2004 - 2015 Brian McCallister

LICENSE: Apache 2.0 https://github.com/jdbi/jdbi/blob/v3.5.1/LICENSE



---------------------
com.mattbertolini » liquibase-slf4j 2.0.0
COPYRIGHT and LICENSE:

Copyright (c) 2012-2015 Matt Bertolini

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated
documentation files (the "Software"), to deal in the Software without
 restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER DEALINGS IN THE SOFTWARE.



---------------------
org.liquibase » liquibase-core 3.6.3
COPYRIGHT:
Copyright 2013 Mark Rogers.
Copyright: Copyright(c) 2007 Trace Financial Limited
```

```
LICENSE: Apache 2.0 https://github.com/liquibase/liquibase/blob/liquibase-
parent-3.6.3/LICENSE.txt


---------------------
org.jadira.usertype » usertype.core 7.0.0.CR1
COPYRIGHT: Copyright 2010 - 2013 Chris Pheby
LICENSE: Apache 2.0 https://github.com/JadiraOrg/jadira/blob/
jadira.parent-7.0.0.CR1/LICENSE.txt

---------------------
com.fasterxml.jackson.datatype jackson-datatype-hibernate5 2.9.8
COPYRIGHT:

Here are people who have contributed to development Jackson JSON processor
Hibernate module,  version 2.x
(version numbers in brackets indicate release in which the problem was
 fixed)

Tatu Saloranta, tatu.saloranta@iki.fi: author

------------
Contributors
------------

Daan van Dijk (drvdijk@github):

#39: NullPointerException trying to serialize ManyToMany proxied values
 (2.2.3)

Edouard Oger (eoger@github)

#25/#59: Allow passing of `SessionFactory` to help with forced lazy-loading
 (2.5.0)

 M. Tarik Yurt (mtyurt@github)

#67: Provide support for Hibernate 5.x
 (2.6.0)

Tiago Peruzzo (peruzzo@github)

#70: Infinite recursion due to `@JsonIgnoreProperties` not passed to
 property
(2.6.5)

LICENSE:

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0


---------------------
org.freemarker » freemarker 2.3.28
COPYRIGHT: Copyright 2015-2018 The Apache Software Foundation
```

```
LICENSE: Apache 2.0 https://github.com/apache/freemarker/blob/v2.3.28/
LICENSE

---------------------
com.github.spullara.mustache.java » compiler 0.9.6
COPYRIGHT: Copyright 2010 RightTime, Inc.
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0


---------------------
org.assertj » assertj-core 3.9.1
COPYRIGHT: Copyright 2012-2019 the original author or authors.
LICENSE: Apache 2.0 https://github.com/joel-costigliola/assertj-core/blob/
assertj-core-3.9.1/LICENSE.txt



---------------------
org.objenesis » objenesis 2.6
COPYRIGHT: Copyright (c) 2003-2013, Objenesis Team and all contributors
LICENSE: Apache 2.0 https://github.com/easymock/objenesis/blob/2.6/
LICENSE.txt



---------------------
com.fasterxml.jackson.core » jackson-annotations 2.9.8
com.fasterxml.jackson.core » jackson-core 2.9.8
com.fasterxml.jackson.core » jackson-databind 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-guava 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-jsr310 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-jdk8 2.9.8
com.fasterxml.jackson.datatype » jackson-datatype-joda 2.9.8
com.fasterxml.jackson.module » jackson-module-parameter-names 2.9.8
com.fasterxml.jackson.module » jackson-module-afterburner 2.9.8

COPYRIGHT:
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
COPYRIGHT (c) 2013 Fasterxml

LICENSE: Apache 2.0 https://www.apache.org/licenses/LICENSE-2.0



---------------------
com.google.code.findbugs » jsr305 3.0.2
COPYRIGHT and LICENSE:
> Copyright (c) JSR305 expert group
> All rights reserved.
>
> Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
>
>     Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
>     Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
>
> THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
```

```
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---------------------
com.google.guava » guava 24.1.1-jre
COPYRIGHT: Copyright (C) 2008 The Guava Authors
LICENSE: Apache 2.0 https://github.com/google/guava/blob/v24.1.1/COPYING



---------------------
joda-time 2.10.1
COPYRIGHT: Copyright 2001-2015 Stephen Colebourne
LICENSE: Apache 2.0 https://github.com/JodaOrg/joda-time/blob/v2.10.1/
LICENSE.txt



---------------------
org.slf4j » slf4j-api 1.7.26
org.slf4j » jul-to-slf4j 1.7.26
org.slf4j » log4j-over-slf4j 1.7.26
org.slf4j » jcl-over-slf4j 1.7.26

COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



---------------------
com.github.ben-manes.caffeine 2.7.0
COPYRIGHT: Copyright 2015 Ben Manes. All Rights Reserved.
LICENSE: Apache 2.0 https://github.com/ben-manes/caffeine/blob/v2.7.0/
LICENSE
```

```
---------------------
org.hibernate » hibernate-validator 5.4.3.Final
COPYRIGHT: Copyright (C) 2004, 2006 The Linux Foundation and its
 contributors.
LICENSE: Apache 2.0 https://github.com/hibernate/hibernate-validator/
blob/5.4.3.Final/license.txt


---------------------
org.javassist » javassist 3.24.1-GA
COPYRIGHT and LICENSE:
Java bytecode engineering toolkit
Javassist version 3

Copyright (C) 1999-2018 by Shigeru Chiba, All rights reserved.

Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
 simple. It is a class library for editing bytecodes in Java; it enables
 Java programs to define a new class at runtime and to modify a class file
 when the JVM loads it. Unlike other similar bytecode editors, Javassist
 provides two levels of API: source level and bytecode level. If the users
 use the source- level API, they can edit a class file without knowledge
 of the specifications of the Java bytecode. The whole API is designed with
 only the vocabulary of the Java language. You can even specify inserted
 bytecode in the form of source text; Javassist compiles it on the fly. On
 the other hand, the bytecode-level API allows the users to directly edit a
 class file as other editors.

This software is distributed under the Mozilla Public License Version 1.1,
 the GNU Lesser General Public License Version 2.1 or later, or the Apache
 License Version 2.0.

===
Oracle elects the terms of Apache 2.0 license.
Apache 2.0: https://www.apache.org/licenses/LICENSE-2.0

---------------------
org.apache.commons » commons-text 1.2
COPYRIGHT: Copyright 2001-2017 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/commons-text/blob/commons-
text-1.2/LICENSE.txt


---------------------
---------------------
io.dropwizard.metrics » metrics-logback 4.0.5
io.dropwizard.metrics » metrics-core 4.0.5
io.dropwizard.metrics » metrics-graphite 4.0.5
io.dropwizard.metrics » metrics-jetty9 4.0.5
io.dropwizard.metrics » metrics-annotation 4.0.5
io.dropwizard.metrics » metrics-core 4.0.5


COPYRIGHT: Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2017
 Dropwizard Team
LICENSE: Apache 2.0 https://github.com/dropwizard/metrics/blob/v4.0.5/
LICENSE

This product includes software developed by Coda Hale and Yammer, Inc.

This product includes code derived from the JSR-166 project
 (ThreadLocalRandom, Striped64,
LongAdder), which was released with the following comments:
```

```
    Written by Doug Lea with assistance from members of JCP JSR-166
    Expert Group and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/



CC0 1.0 Universal
Official translations of this legal tool are available in other languages.

    CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
 LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-
CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-
IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS
 DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS
 LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE
 INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
 exclusive Copyright and Related Rights (defined below) upon the creator
 and subsequent owner(s) (each and all, an "owner") of an original work of
 authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the
 purpose of contributing to a commons of creative, cultural and scientific
 works ("Commons") that the public can reliably and without fear of later
 claims of infringement build upon, modify, incorporate in other works,
 reuse and redistribute as freely as possible in any form whatsoever and
 for any purposes, including without limitation commercial purposes. These
 owners may contribute to the Commons to promote the ideal of a free culture
 and the further production of creative, cultural and scientific works, or
 to gain reputation or greater distribution for their Work in part through
 the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of additional consideration or compensation, the person associating CC0
 with a Work (the "Affirmer"), to the extent that he or she is an owner
 of Copyright and Related Rights in the Work, voluntarily elects to apply
 CC0 to the Work and publicly distribute the Work under its terms, with
 knowledge of his or her Copyright and Related Rights in the Work and the
 meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
 protected by copyright and related or neighboring rights ("Copyright and
 Related Rights"). Copyright and Related Rights include, but are not limited
 to, the following:

    the right to reproduce, adapt, distribute, perform, display,
 communicate, and translate a Work;
    moral rights retained by the original author(s) and/or performer(s);
    publicity and privacy rights pertaining to a person's image or likeness
 depicted in a Work;
    rights protecting against unfair competition in regards to a Work,
 subject to the limitations in paragraph 4(a), below;
    rights protecting the extraction, dissemination, use and reuse of data
 in a Work;
    database rights (such as those arising under Directive 96/9/EC of
 the European Parliament and of the Council of 11 March 1996 on the legal
 protection of databases, and under any national implementation thereof,
 including any amended or successor version of such directive); and
    other similar, equivalent or corresponding rights throughout the
 world based on applicable law or treaty, and any national implementations
 thereof.
```

```
2. Waiver. To the greatest extent permitted by, but not in contravention of,
 applicable law, Affirmer hereby overtly, fully, permanently, irrevocably
 and unconditionally waives, abandons, and surrenders all of Affirmer's
 Copyright and Related Rights and associated claims and causes of action,
 whether now known or unknown (including existing as well as future claims
 and causes of action), in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "Waiver").
 Affirmer makes the Waiver for the benefit of each member of the public
 at large and to the detriment of Affirmer's heirs and successors, fully
 intending that such Waiver shall not be subject to revocation, rescission,
 cancellation, termination, or any other legal or equitable action to
 disrupt the quiet enjoyment of the Work by the public as contemplated by
 Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
 be judged legally invalid or ineffective under applicable law, then the
 Waiver shall be preserved to the maximum extent permitted taking into
 account Affirmer's express Statement of Purpose. In addition, to the
 extent the Waiver is so judged Affirmer hereby grants to each affected
 person a royalty-free, non transferable, non sublicensable, non exclusive,
 irrevocable and unconditional license to exercise Affirmer's Copyright
 and Related Rights in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "License").
 The License shall be deemed effective as of the date CC0 was applied by
 Affirmer to the Work. Should any part of the License for any reason be
 judged legally invalid or ineffective under applicable law, such partial
 invalidity or ineffectiveness shall not invalidate the remainder of the
 License, and in such case Affirmer hereby affirms that he or she will
 not (i) exercise any of his or her remaining Copyright and Related Rights
 in the Work or (ii) assert any associated claims and causes of action
 with respect to the Work, in either case contrary to Affirmer's express
 Statement of Purpose.

4. Limitations and Disclaimers.

    No trademark or patent rights held by Affirmer are waived, abandoned,
 surrendered, licensed or otherwise affected by this document.
    Affirmer offers the Work as-is and makes no representations or
 warranties of any kind concerning the Work, express, implied, statutory
 or otherwise, including without limitation warranties of title,
 merchantability, fitness for a particular purpose, non infringement, or the
 absence of latent or other defects, accuracy, or the present or absence of
 errors, whether or not discoverable, all to the greatest extent permissible
 under applicable law.
    Affirmer disclaims responsibility for clearing rights of other persons
 that may apply to the Work or any use thereof, including without limitation
 any person's Copyright and Related Rights in the Work. Further, Affirmer
 disclaims responsibility for obtaining any necessary consents, permissions
 or other rights required for any use of the Work.
    Affirmer understands and acknowledges that Creative Commons is not a
 party to this document and has no duty or obligation with respect to this
 CC0 or use of the Work.



----------------------
org.eclipse.jetty » jetty-util 9.4.14.v20181114
```

```
org.eclipse.jetty » jetty-server 9.4.14.v20181114
org.eclipse.jetty » jetty-servlet 9.4.14.v20181114
org.eclipse.jetty » jetty-servlets 9.4.14.v20181114
org.eclipse.jetty » jetty-webapp 9.4.14.v20181114
org.eclipse.jetty » jetty-continuation 9.4.14.v20181114
org.eclipse.jetty » jetty-http 9.4.14.v20181114
org.eclipse.jetty » jetty-alpn-openjdk8-server 9.4.14.v20181114
org.eclipse.jetty.http2 » http2-server 9.4.14.v20181114


COPYRIGHT:  Copyright 1995-2018 Mort Bay Consulting Pty Ltd.
LICENSE: Apache 2.0 + EPL v1.0

The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
unless otherwise noted.

Jetty is dual licensed under both

  * The Apache 2.0 License
    http://www.apache.org/licenses/LICENSE-2.0.html

      and

  * The Eclipse Public 1.0 License
    http://www.eclipse.org/legal/epl-v10.html

Jetty may be distributed under either license.

Oracle elects the terms of Apache 2.0 license

NOTICE FILE:
------
Eclipse

The following artifacts are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message


The following artifacts are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

------
OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm


------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl


------
```

```
MortBay

The following artifacts are ASL2 licensed.  Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
  org.apache.tomcat:tomcat-jasper
  org.apache.tomcat:tomcat-juli
  org.apache.tomcat:tomcat-jsp-api
  org.apache.tomcat:tomcat-el-api
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-api
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-el-api


------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.

---------------------
classmate 1.4.0
COPYRIGHT: (C) Fasterxml
LICENSE: Apache 2.0

This copy of Java ClassMate library is licensed under Apache (Software)
 License,
version 2.0 ("the License").
See the License for details about distribution rights, and the specific
 rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0


----------------------------------
```

Provider: Coda Hale and Yammer, Inc. / Component(s): Metrics Core 4.0.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2012 Coda Hale and Yammer, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): Dropwizard configuration 3.0.7

```
------------------------------- Top-level license --------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
```

```
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
```

```
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

---------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY 1
com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.datatype:jackson-datatype-guava

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits
```

```
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
com.fasterxml.jackson.core:jackson-core

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.

---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
com.fasterxml.jackson.dataformat:jackson-dataformat-yaml

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
```

```
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson components are licensed under Apache (Software) License, version
 2.0,
as per accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 4
com.fasterxml.jackson.datatype:jackson-datatype-jdk8
com.fasterxml.jackson.datatype:jackson-datatype-jsr310

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson components are licensed under Apache (Software) License, version
 2.0,
as per accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 5
com.fasterxml.jackson.module:jackson-module-blackbird
com.fasterxml.jackson.module:jackson-module-parameter-names

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.
```

```
## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 6
com.fasterxml:classmate

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 7
com.github.ben-manes.caffeine:caffeine

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright 2015 Ben Manes. All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 8
com.google.errorprone:error_prone_annotations

== License
```

```
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright 2015 The Error Prone Authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 9
com.google.guava:guava

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright (C) 2013 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 10
io.dropwizard:dropwizard-configuration
io.dropwizard:dropwizard-jackson
io.dropwizard:dropwizard-util
io.dropwizard:dropwizard-validation

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 11
jakarta.validation:jakarta.validation-api
```

```
== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Copyright @ 2019,2023 Eclipse Foundation.

# Notices for Eclipse Jakarta Validation

This content is produced and maintained by the Eclipse Jakarta Validation
project.

* Project home: https://projects.eclipse.org/projects/ee4j.validation

## Trademarks

 Jakarta Validation is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

* [The specification repository](https://github.com/jakartaee/validation-
spec)
* [The API repository](https://github.com/jakartaee/validation)
* [The TCK repository](https://github.com/jakartaee/validation-tck)

## Third-party Content

This project leverages the following third party content.

Test dependencies:

 * [TestNG](https://github.com/cbeust/testng) - Apache License 2.0
 * [JCommander](https://github.com/cbeust/jcommander) - Apache License 2.0
 * [SnakeYAML](https://bitbucket.org/asomov/snakeyaml/src) - Apache License
 2.0

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 12
org.apache.commons:commons-lang3

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Apache Commons Lang
Copyright 2001-2024 The Apache Software Foundation
```

```
This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 13
org.apache.commons:commons-text

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Apache Commons Text
Copyright 2014-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 14
org.checkerframework:checker-qual

== License
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 15
org.glassfish:jakarta.el

== License
Eclipse Public License 2.0 with secondary license GPL v2 with Classpath
 Exception

== Copyright Notices
# Notices for Jakarta Expression Language

This content is produced and maintained by the Jakarta Expression Language
 project.

* Project home: https://projects.eclipse.org/projects/ee4j.el
```

```
## Trademarks

Jakarta Expression Language is a trademark of the Eclipse
Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/el-ri

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 16
org.hibernate.validator:hibernate-validator

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Developer Certificate of Origin
Version 1.1

Copyright (C) 2004, 2006 The Linux Foundation and its contributors.
1 Letterman Drive
Suite D4700
San Francisco, CA, 94129
```

```
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.


Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I
    have the right to submit it under the open source license
    indicated in the file; or

(b) The contribution is based upon previous work that, to the best
    of my knowledge, is covered under an appropriate open source
    license and I have the right under that license to submit that
    work with modifications, whether created in whole or in part
    by me, under the same open source license (unless I am
    permitted to submit under a different license), as indicated
    in the file; or

(c) The contribution was provided directly to me by some other
    person who certified (a), (b) or (c) and I have not modified
    it.

(d) I understand and agree that this project and the contribution
    are public and that a record of the contribution (including all
    personal information I submit with it, including my sign-off) is
    maintained indefinitely and may be redistributed consistent with
    this project or the open source license(s) involved.

/*
 * Hibernate Validator, declare and validate application constraints
 *
 * License: Apache License, Version 2.0
 * See the license.txt file in the root directory or <http://www.apache.org/
licenses/LICENSE-2.0>.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 17
org.slf4j:slf4j-api

== License
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 17
org.yaml:snakeyaml

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/**
 * Copyright (c) 2008, SnakeYAML
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
 */
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): Dropwizard core 3.0.7

```
------------------------------- Top-level license --------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
```

```
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
```

```
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 1
ch.qos.logback:logback-access
ch.qos.logback:logback-classic
ch.qos.logback:logback-core

== License

Logback LICENSE
---------------
```

```
Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.

== Copyright Notices

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.datatype:jackson-datatype-guava

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
com.fasterxml.jackson.core:jackson-core
```

```
== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 5
com.fasterxml.jackson.dataformat:jackson-dataformat-yaml

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing
```

```
Jackson components are licensed under Apache (Software) License, version
 2.0,
as per accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 6
com.fasterxml.jackson.datatype:jackson-datatype-jdk8
com.fasterxml.jackson.datatype:jackson-datatype-jsr310

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson components are licensed under Apache (Software) License, version
 2.0,
as per accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 7
com.fasterxml.jackson.jaxrs:jackson-jaxrs-base
com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).
```

```
## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 8
com.fasterxml.jackson.module:jackson-module-blackbird
com.fasterxml.jackson.module:jackson-module-jaxb-annotations
com.fasterxml.jackson.module:jackson-module-parameter-names

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 9
com.fasterxml:classmate

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 10
com.github.ben-manes.caffeine:caffeine
```

```
== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright 2015 Ben Manes. All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 11
com.google.errorprone:error_prone_annotations

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright 2015 The Error Prone Authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 12
com.google.guava:guava

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright (C) 2013 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
```

```
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 13
com.helger:profiler
io.dropwizard.logback:logback-throttling-appender
io.dropwizard.metrics:metrics-annotation
io.dropwizard.metrics:metrics-core
io.dropwizard.metrics:metrics-healthchecks
io.dropwizard.metrics:metrics-jersey2
io.dropwizard.metrics:metrics-jetty10
io.dropwizard.metrics:metrics-jmx
io.dropwizard.metrics:metrics-json
io.dropwizard.metrics:metrics-jvm
io.dropwizard.metrics:metrics-logback
io.dropwizard.metrics:metrics-servlets

== License
Apache 2.0 (Same as Top-level license)

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 14
io.dropwizard:dropwizard-configuration
io.dropwizard:dropwizard-health
io.dropwizard:dropwizard-jackson
io.dropwizard:dropwizard-jersey
io.dropwizard:dropwizard-jetty
io.dropwizard:dropwizard-lifecycle
io.dropwizard:dropwizard-logging
io.dropwizard:dropwizard-metrics
io.dropwizard:dropwizard-request-logging
io.dropwizard:dropwizard-servlets
io.dropwizard:dropwizard-util
io.dropwizard:dropwizard-validation

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 15
jakarta.activation:jakarta.activation-api
jakarta.servlet:jakarta.servlet-api
jakarta.ws.rs:jakarta.ws.rs-api
jakarta.xml.bind:jakarta.xml.bind-api

== License
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
```

```
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
/*
 * Copyright (c) 1997, 2023 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0, which is available at
 * http://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 16
jakarta.annotation:jakarta.annotation-api

== License

Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.
```

```
"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
```

```
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.
```

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

```
If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.


The GNU General Public License (GPL) Version 2, June 1991
```

```
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
```

```
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
```

```
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.
```

```
7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
```

```
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.
```

```
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

== Copyright Notices
/*
 * Copyright (c) 2005, 2023 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 17
jakarta.inject:jakarta.inject-api

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright (C) 2009 The JSR-330 Expert Group
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

# Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency
 Injection project.
```

```
* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

None

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 18
jakarta.validation:jakarta.validation-api

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Copyright @ 2019,2023 Eclipse Foundation.

# Notices for Eclipse Jakarta Validation

This content is produced and maintained by the Eclipse Jakarta Validation
project.

* Project home: https://projects.eclipse.org/projects/ee4j.validation

## Trademarks

 Jakarta Validation is a trademark of the Eclipse Foundation.

## Copyright
```

```
All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

* [The specification repository](https://github.com/jakartaee/validation-
spec)
* [The API repository](https://github.com/jakartaee/validation)
* [The TCK repository](https://github.com/jakartaee/validation-tck)

## Third-party Content

This project leverages the following third party content.

Test dependencies:

 * [TestNG](https://github.com/cbeust/testng) - Apache License 2.0
 * [JCommander](https://github.com/cbeust/jcommander) - Apache License 2.0
 * [SnakeYAML](https://bitbucket.org/asomov/snakeyaml/src) - Apache License
 2.0


--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 19
net.bytebuddy:byte-buddy

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
```

```
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY 20
net.sourceforge.argparse4j:argparse4j

== License
/*
 * Copyright (C) 2011-2021 The contributors: https://github.com/argparse4j/
argparse4j/graphs/contributors
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */

== Copyright Notices

/*
 * Copyright (C) 2015 Andrew January
 * Copyright (C) 2011 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
```

```
/*
 * Licensed to the Apache Software Foundation (ASF) under one
 * or more contributor license agreements.  See the NOTICE file
 * distributed with this work for additional information
 * regarding copyright ownership.  The ASF licenses this file
 * to you under the Apache License, Version 2.0 (the
 * "License"); you may not use this file except in compliance
 * with the License.  You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing,
 * software distributed under the License is distributed on an
 * "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 * KIND, either express or implied.  See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 21
org.apache.commons:commons-lang3

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Apache Commons Lang
Copyright 2001-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 22
org.apache.commons:commons-text

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Apache Commons Text
Copyright 2014-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 23
org.checkerframework:checker-qual

== License
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY 24
org.eclipse.jetty.toolchain.setuid:jetty-setuid-java

== License
Eclipse Public License 1.0 and Apache 2.0

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
```

```
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.
```

```
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL
```

```
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.

Apache 2.0 (Same as Top-level license)

== Copyright Notices
//
//  ==========================================================================
//  Copyright (c) 1995-2012 Mort Bay Consulting Pty. Ltd.
//  --------------------------------------------------------------------------
//  All rights reserved. This program and the accompanying materials
//  are made available under the terms of the Eclipse Public License v1.0
//  and Apache License v2.0 which accompanies this distribution.
//
//      The Eclipse Public License is available at
//      http://www.eclipse.org/legal/epl-v10.html
//
//      The Apache License v2.0 is available at
//      http://www.opensource.org/licenses/apache2.0.php
//
//  You may elect to redistribute this code under either of these licenses.
```

```
//  ==========================================================================
//
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 25
org.eclipse.jetty:jetty-http
org.eclipse.jetty:jetty-io
org.eclipse.jetty:jetty-security
org.eclipse.jetty:jetty-server
org.eclipse.jetty:jetty-servlet
org.eclipse.jetty:jetty-servlets
org.eclipse.jetty:jetty-util

== License
Eclipse Public License - v 2.0 OR Apache-2.0

== Copyright Notices
//
// ========================================================================
// Copyright (c) 1995 Mort Bay Consulting Pty Ltd and others.
//
// This program and the accompanying materials are made available under the
// terms of the Eclipse Public License v. 2.0 which is available at
// https://www.eclipse.org/legal/epl-2.0, or the Apache License, Version 2.0
// which is available at https://www.apache.org/licenses/LICENSE-2.0.
//
// SPDX-License-Identifier: EPL-2.0 OR Apache-2.0
// ========================================================================
//

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 26
org.glassfish.hk2.external:aopalliance-repackaged
org.glassfish.hk2:hk2-api
org.glassfish.hk2:hk2-locator
org.glassfish.hk2:hk2-utils
org.glassfish.hk2:osgi-resource-locator
org.glassfish.jersey.containers:jersey-container-servlet
org.glassfish.jersey.containers:jersey-container-servlet-core
org.glassfish.jersey.core:jersey-client
org.glassfish.jersey.core:jersey-common
org.glassfish.jersey.core:jersey-server
org.glassfish.jersey.ext:jersey-bean-validation
org.glassfish.jersey.ext:jersey-metainf-services
org.glassfish.jersey.inject:jersey-hk2
org.glassfish:jakarta.el

== License
Eclipse Public License 2.0 with secondary license GPL v2 with Classpath
 Exception

== Copyright Notices
/*
 * Copyright (c) 2014, 2018 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
```

```
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */

<!--

    Copyright (c) 2012, 2024 Oracle and/or its affiliates. All rights
 reserved.
    Copyright (c) 2018, 2019 Payara Foundation and/or its affiliates. All
 rights reserved.

    This program and the accompanying materials are made available under the
    terms of the Eclipse Public License v. 2.0, which is available at
    http://www.eclipse.org/legal/epl-2.0.

    This Source Code may also be made available under the following
 Secondary
    Licenses when the conditions for such availability set forth in the
    Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
    version 2 with the GNU Classpath Exception, which is available at
    https://www.gnu.org/software/classpath/license.html.

    SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

-->

# Notice for Jersey Core Common module
This content is produced and maintained by the Eclipse Jersey project.


* https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content
```

```
Google Guava Version 18.0
* License: Apache License, 2.0
* Copyright: (C) 2009 The Guava Authors

JSR-166 Extension - JEP 266
* License: Creative Commons 1.0 (CC0)
* No copyright
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/publicdomain/zero/1.0/

# Notice for Jersey Core Server module
This content is produced and maintained by the Eclipse Jersey project.

* https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

org.glassfish.jersey.server.internal.monitoring.core
* License: Apache License, 2.0
* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
* Copyright 2010-2013 Coda Hale and Yammer, Inc.

org.objectweb.asm Version 9.7
* License: Modified BSD (https://asm.ow2.io/license.html)
* Copyright: (c) 2000-2011 INRIA, France Telecom. All rights reserved.

W3.org documents
* License: W3C License
* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium,
 (Massachusetts Institute of Technology, Institut National de Recherche
 en Informatique et en Automatique, Keio University). All Rights Reserved.
 http://www.w3.org/Consortium/Legal/
```

```
# Notice for Jersey Bean Validation module
This content is produced and maintained by the Eclipse Jersey project.

* https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

Hibernate Validator CDI, 6.2.5.Final
* License: Apache License, 2.0
* Project: https://beanvalidation.org/
* Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

# Notices for Jakarta Expression Language

This content is produced and maintained by the Jakarta Expression Language
 project.

* Project home: https://projects.eclipse.org/projects/ee4j.el

## Trademarks

Jakarta Expression Language is a trademark of the Eclipse
Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses
```

```
This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/el-ri

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 27
.
== License
.
.
== Copyright Notices
.
.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 28
.
== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Developer Certificate of Origin
Version 1.1

Copyright (C) 2004, 2006 The Linux Foundation and its contributors.
1 Letterman Drive
Suite D4700
San Francisco, CA, 94129

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.


Developer's Certificate of Origin 1.1
```

```
By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I
    have the right to submit it under the open source license
    indicated in the file; or

(b) The contribution is based upon previous work that, to the best
    of my knowledge, is covered under an appropriate open source
    license and I have the right under that license to submit that
    work with modifications, whether created in whole or in part
    by me, under the same open source license (unless I am
    permitted to submit under a different license), as indicated
    in the file; or

(c) The contribution was provided directly to me by some other
    person who certified (a), (b) or (c) and I have not modified
    it.

(d) I understand and agree that this project and the contribution
    are public and that a record of the contribution (including all
    personal information I submit with it, including my sign-off) is
    maintained indefinitely and may be redistributed consistent with
    this project or the open source license(s) involved.

/*
 * Hibernate Validator, declare and validate application constraints
 *
 * License: Apache License, Version 2.0
 * See the license.txt file in the root directory or <http://www.apache.org/
licenses/LICENSE-2.0>.
 */

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 29
org.javassist:javassist

== License

MOZILLA PUBLIC LICENSE
Version 1.1

1. Definitions.

    1.0.1. "Commercial Use" means distribution or otherwise making the
 Covered Code available to a third party.

    1.1. ''Contributor'' means each entity that creates or contributes to
 the creation of Modifications.

    1.2. ''Contributor Version'' means the combination of the Original Code,
 prior Modifications used by a Contributor, and the Modifications made by
 that particular Contributor.

    1.3. ''Covered Code'' means the Original Code or Modifications or the
 combination of the Original Code and Modifications, in each case including
 portions thereof.

    1.4. ''Electronic Distribution Mechanism'' means a mechanism generally
 accepted in the software development community for the electronic transfer
 of data.

    1.5. ''Executable'' means Covered Code in any form other than Source
 Code.
```

```
    1.6. ''Initial Developer'' means the individual or entity identified as
 the Initial Developer in the Source Code notice required by Exhibit A.

    1.7. ''Larger Work'' means a work which combines Covered Code or
 portions thereof with code not governed by the terms of this License.

    1.8. ''License'' means this document.

    1.8.1. "Licensable" means having the right to grant, to the maximum
 extent possible, whether at the time of the initial grant or subsequently
 acquired, any and all of the rights conveyed herein.

    1.9. ''Modifications'' means any addition to or deletion from the
 substance or structure of either the Original Code or any previous
 Modifications. When Covered Code is released as a series of files, a
 Modification is:
        A. Any addition to or deletion from the contents of a file
 containing Original Code or previous Modifications.

        B. Any new file that contains any part of the Original Code or
 previous Modifications.

    1.10. ''Original Code'' means Source Code of computer software code
 which is described in the Source Code notice required by Exhibit A as
 Original Code, and which, at the time of its release under this License is
 not already Covered Code governed by this License.

    1.10.1. "Patent Claims" means any patent claim(s), now owned or
 hereafter acquired, including without limitation,  method, process, and
 apparatus claims, in any patent Licensable by grantor.

    1.11. ''Source Code'' means the preferred form of the Covered Code for
 making modifications to it, including all modules it contains, plus any
 associated interface definition files, scripts used to control compilation
 and installation of an Executable, or source code differential comparisons
 against either the Original Code or another well known, available Covered
 Code of the Contributor's choice. The Source Code can be in a compressed
 or archival form, provided the appropriate decompression or de-archiving
 software is widely available for no charge.

    1.12. "You'' (or "Your")  means an individual or a legal entity
 exercising rights under, and complying with all of the terms of, this
 License or a future version of this License issued under Section 6.1. For
 legal entities, "You'' includes any entity which controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 "control'' means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. Source Code License.

    2.1. The Initial Developer Grant.
    The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive license, subject to third party intellectual property claims:
        (a)  under intellectual property rights (other than patent or
 trademark) Licensable by Initial Developer to use, reproduce, modify,
 display, perform, sublicense and distribute the Original Code (or portions
 thereof) with or without Modifications, and/or as part of a Larger Work;
 and

        (b) under Patents Claims infringed by the making, using or selling
 of Original Code, to make, have made, use, practice, sell, and offer for
 sale, and/or otherwise dispose of the Original Code (or portions thereof).
```

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

2.2. Contributor Grant.
Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Application of License.
The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

3.2. Availability of Source Code.
Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available

```
to such recipients. You are responsible for ensuring that the Source Code
version remains available even if the Electronic Distribution Mechanism is
maintained by a third party.

   3.3. Description of Modifications.
   You must cause all Covered Code to which You contribute to contain
a file documenting the changes You made to create that Covered Code
and the date of any change. You must include a prominent statement that
the Modification is derived, directly or indirectly, from Original Code
provided by the Initial Developer and including the name of the Initial
Developer in (a) the Source Code, and (b) in any notice in an Executable
version or related documentation in which You describe the origin or
ownership of the Covered Code.

   3.4. Intellectual Property Matters
       (a) Third Party Claims.
       If Contributor has knowledge that a license under a third party's
intellectual property rights is required to exercise the rights granted
by such Contributor under Sections 2.1 or 2.2, Contributor must include a
text file with the Source Code distribution titled "LEGAL'' which describes
the claim and the party making the claim in sufficient detail that a
recipient will know whom to contact. If Contributor obtains such knowledge
after the Modification is made available as described in Section 3.2,
Contributor shall promptly modify the LEGAL file in all copies Contributor
makes available thereafter and shall take other steps (such as notifying
appropriate mailing lists or newsgroups) reasonably calculated to inform
those who received the Covered Code that new knowledge has been obtained.

       (b) Contributor APIs.
       If Contributor's Modifications include an application programming
interface and Contributor has knowledge of patent licenses which are
reasonably necessary to implement that API, Contributor must also include
this information in the LEGAL file.

             (c)    Representations.
       Contributor represents that, except as disclosed pursuant to Section
3.4(a) above, Contributor believes that Contributor's Modifications are
Contributor's original creation(s) and/or Contributor has sufficient rights
to grant the rights conveyed by this License.


   3.5. Required Notices.
   You must duplicate the notice in Exhibit A in each file of the Source
Code.  If it is not possible to put such notice in a particular Source Code
file due to its structure, then You must include such notice in a location
(such as a relevant directory) where a user would be likely to look for
such a notice.  If You created one or more Modification(s) You may add
your name as a Contributor to the notice described in Exhibit A.  You must
also duplicate this License in any documentation for the Source Code where
You describe recipients' rights or ownership rights relating to Covered
Code.  You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Code. However, You may do so only on Your own behalf, and not on behalf
of the Initial Developer or any Contributor. You must make it absolutely
clear than any such warranty, support, indemnity or liability obligation
is offered by You alone, and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of warranty, support, indemnity
or liability terms You offer.

   3.6. Distribution of Executable Versions.
   You may distribute Covered Code in Executable form only if the
requirements of Section 3.1-3.5 have been met for that Covered Code, and
if You include a notice stating that the Source Code version of the Covered
```

```
 Code is available under the terms of this License, including a description
 of how and where You have fulfilled the obligations of Section 3.2. The
 notice must be conspicuously included in any notice in an Executable
 version, related documentation or collateral in which You describe
 recipients' rights relating to the Covered Code. You may distribute the
 Executable version of Covered Code or ownership rights under a license of
 Your choice, which may contain terms different from this License, provided
 that You are in compliance with the terms of this License and that the
 license for the Executable version does not attempt to limit or alter the
 recipient's rights in the Source Code version from the rights set forth in
 this License. If You distribute the Executable version under a different
 license You must make it absolutely clear that any terms which differ from
 this License are offered by You alone, not by the Initial Developer or any
 Contributor. You hereby agree to indemnify the Initial Developer and every
 Contributor for any liability incurred by the Initial Developer or such
 Contributor as a result of any such terms You offer.

    3.7. Larger Works.
    You may create a Larger Work by combining Covered Code with other code
 not governed by the terms of this License and distribute the Larger Work
 as a single product. In such a case, You must make sure the requirements of
 this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

    If it is impossible for You to comply with any of the terms of this
 License with respect to some or all of the Covered Code due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be included
 in the LEGAL file described in Section 3.4 and must be included with
 all distributions of the Source Code. Except to the extent prohibited by
 statute or regulation, such description must be sufficiently detailed for a
 recipient of ordinary skill to be able to understand it.

5. Application of this License.

    This License applies to code to which the Initial Developer has attached
 the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

    6.1. New Versions.
    Netscape Communications Corporation (''Netscape'') may publish revised
 and/or new versions of the License from time to time. Each version will be
 given a distinguishing version number.

    6.2. Effect of New Versions.
    Once Covered Code has been published under a particular version of
 the License, You may always continue to use it under the terms of that
 version. You may also choose to use such Covered Code under the terms of
 any subsequent version of the License published by Netscape. No one other
 than Netscape has the right to modify the terms applicable to Covered Code
 created under this License.

    6.3. Derivative Works.
    If You create or use a modified version of this License (which you may
 only do in order to apply it to code which is not already Covered Code
 governed by this License), You must (a) rename Your license so that the
 phrases ''Mozilla'', ''MOZILLAPL'', ''MOZPL'', ''Netscape'', "MPL", ''NPL''
 or any confusingly similar phrase do not appear in your license (except to
 note that your license differs from this License) and (b) otherwise make it
 clear that Your version of the license contains terms which differ from the
 Mozilla Public License and Netscape Public License. (Filling in the name of
```

```
 the Initial Developer, Original Code or Contributor in the notice described
 in Exhibit A shall not of themselves be deemed to be modifications of this
 License.)

7. DISCLAIMER OF WARRANTY.

    COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS'' BASIS,
 WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
 WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS,
 MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE
 RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH
 YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT
 THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
 NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
 CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE
 IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

    8.1.  This License and the rights granted hereunder will terminate
 automatically if You fail to comply with terms herein and fail to cure such
 breach within 30 days of becoming aware of the breach. All sublicenses to
 the Covered Code which are properly granted shall survive any termination
 of this License. Provisions which, by their nature, must remain in effect
 beyond the termination of this License shall survive.

    8.2.  If You initiate litigation by asserting a patent infringement
 claim (excluding declatory judgment actions) against Initial Developer or
 a Contributor (the Initial Developer or Contributor against whom You file
 such action is referred to as "Participant")  alleging that:

    (a)  such Participant's Contributor Version directly or indirectly
 infringes any patent, then any and all rights granted by such Participant
 to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days
 notice from Participant terminate prospectively, unless if within 60
 days after receipt of notice You either: (i)  agree in writing to pay
 Participant a mutually agreeable reasonable royalty for Your past and
 future use of Modifications made by such Participant, or (ii) withdraw
 Your litigation claim with respect to the Contributor Version against such
 Participant.  If within 60 days of notice, a reasonable royalty and payment
 arrangement are not mutually agreed upon in writing by the parties or the
 litigation claim is not withdrawn, the rights granted by Participant to You
 under Sections 2.1 and/or 2.2 automatically terminate at the expiration of
 the 60 day notice period specified above.

    (b)  any software, hardware, or device, other than such Participant's
 Contributor Version, directly or indirectly infringes any patent, then
 any rights granted to You by such Participant under Sections 2.1(b) and
 2.2(b) are revoked effective as of the date You first made, used, sold,
 distributed, or had made, Modifications made by that Participant.

    8.3.  If You assert a patent infringement claim against Participant
 alleging that such Participant's Contributor Version directly or indirectly
 infringes any patent where such claim is resolved (such as by license or
 settlement) prior to the initiation of patent infringement litigation,
 then the reasonable value of the licenses granted by such Participant under
 Sections 2.1 or 2.2 shall be taken into account in determining the amount
 or value of any payment or license.

    8.4.  In the event of termination under Sections 8.1 or 8.2 above,  all
 end user license agreements (excluding distributors and resellers) which
 have been validly granted by You or any distributor hereunder prior to
 termination shall survive termination.
```

```
9. LIMITATION OF LIABILITY.

    UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
 (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL
 DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE,
 OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY
 INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER
 INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE,
 COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES
 OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY
 OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY
 FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE
 EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT
 ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES,
 SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

    The Covered Code is a ''commercial item,'' as that term is defined in 48
 C.F.R. 2.101 (Oct. 1995), consisting of ''commercial computer software''
 and ''commercial computer software documentation,'' as such terms are used
 in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48
 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End
 Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

    This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. This License shall be governed by California law provisions
 (except to the extent applicable law, if any, provides otherwise),
 excluding its conflict-of-law provisions. With respect to disputes in
 which at least one party is a citizen of, or an entity chartered or
 registered to do business in the United States of America, any litigation
 relating to this License shall be subject to the jurisdiction of the
 Federal Courts of the Northern District of California, with venue lying
 in Santa Clara County, California, with the losing party responsible for
 costs, including without limitation, court costs and reasonable attorneys'
 fees and expenses. The application of the United Nations Convention on
 Contracts for the International Sale of Goods is expressly excluded. Any
 law or regulation which provides that the language of a contract shall be
 construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
 responsible for claims and damages arising, directly or indirectly, out
 of its utilization of rights under this License and You agree to work
 with Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

    Initial Developer may designate portions of the Covered Code as
 "Multiple-Licensed".  "Multiple-Licensed" means that the Initial Developer
 permits you to utilize portions of the Covered Code under Your choice
 of the MPL or the alternative licenses, if any, specified by the Initial
 Developer in the file described in Exhibit A.


EXHIBIT A -Mozilla Public License.
```

```
    The contents of this file are subject to the Mozilla Public License
 Version 1.1 (the "License"); you may not use this file except in compliance
 with the License. You may obtain a copy of the License at
    http://www.mozilla.org/MPL/

    Software distributed under the License is distributed on an "AS IS"
 basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
 License for the specific language governing rights and limitations under
 the License.

    The Original Code is Javassist.

    The Initial Developer of the Original Code is Shigeru Chiba. Portions
 created by the Initial Developer are
      Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

    Contributor(s): __Bill Burke, Jason T. Greene_______________.

    Alternatively, the contents of this software may be used under the terms
 of the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),
 or the Apache License Version 2.0 (the "AL"), in which case the provisions
 of the LGPL or the AL are applicable instead of those above. If you wish to
 allow use of your version of this software only under the terms of either
 the LGPL or the AL, and not to allow others to use your version of this
 software under the terms of the MPL, indicate your decision by deleting
 the provisions above and replace them with the notice and other provisions
 required by the LGPL or the AL. If you do not delete the provisions above,
 a recipient may use your version of this software under the terms of any
 one of the MPL, the LGPL or the AL.

    If you obtain this software as part of JBoss, the contents of this
 software may be used under only the terms of the LGPL. To use them under
 the MPL, you must obtain a separate package including only Javassist but
 not the other part of JBoss.

    All the contributors to the original source tree have agreed to the
 original license term described above.

== Copyright Notices
/*
 * Javassist, a Java-bytecode translator toolkit.
 * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
 *
 * The contents of this file are subject to the Mozilla Public License
 Version
 * 1.1 (the "License"); you may not use this file except in compliance with
 * the License.  Alternatively, the contents of this file may be used under
 * the terms of the GNU Lesser General Public License Version 2.1 or later,
 * or the Apache License Version 2.0.
 *
 * Software distributed under the License is distributed on an "AS IS"
 basis,
 * WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 * for the specific language governing rights and limitations under the
 * License.
 */

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 30
org.jboss.logging:jboss-logging

== License
Apache 2.0 (Same as Top-level license)
```

```
== Copyright Notices
/*
 * JBoss, Home of Professional Open Source.
 *
 * Copyright 2010 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 31
org.slf4j:jcl-over-slf4j
org.slf4j:log4j-over-slf4j

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright 2001-2004 The Apache Software Foundation.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 32
org.slf4j:jul-to-slf4j
org.slf4j:slf4j-api

== License
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.
```

```
THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): Dropwizard Jersey 3.0.7

```
------------------------------- Top-level license --------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

---------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY 1
com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-databind

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
```

```
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
com.fasterxml.jackson.core:jackson-core

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.

---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
com.fasterxml.jackson.jaxrs:jackson-jaxrs-base
com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
```

```
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
com.fasterxml.jackson.module:jackson-module-jaxb-annotations

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 5
com.fasterxml:classmate

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel
```

```
## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 6
com.github.ben-manes.caffeine:caffeine

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright 2015 Ben Manes. All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 7
com.google.guava:guava

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright (C) 2013 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 8
com.helger:profiler
io.dropwizard.metrics:metrics-annotation
io.dropwizard.metrics:metrics-core
io.dropwizard.metrics:metrics-jersey2
io.dropwizard:dropwizard-jackson
io.dropwizard:dropwizard-jersey
io.dropwizard:dropwizard-logging
```

```
io.dropwizard:dropwizard-util
io.dropwizard:dropwizard-validation

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 9
jakarta.activation:jakarta.activation-api

== License
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
/*
 * Copyright (c) 1997, 2023 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0, which is available at
 * http://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 10
jakarta.annotation:jakarta.annotation-api

== License
```

```
Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
```

```
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;
```

```
     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
```

BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication,

```
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.


The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
```

```
Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
```

```
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.
```

```
4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
```

```
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
```

```
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

== Copyright Notices
/*
 * Copyright (c) 2005, 2023 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 11
jakarta.inject:jakarta.inject-api

== License
```

```
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright (C) 2009 The JSR-330 Expert Group
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

# Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency
 Injection project.

* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

None
```

```
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 12
jakarta.servlet:jakarta.servlet-api

== License
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
/*
 * Copyright (c) 1997, 2023 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0, which is available at
 * http://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 13
jakarta.validation:jakarta.validation-api

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Copyright @ 2019,2023 Eclipse Foundation.

# Notices for Eclipse Jakarta Validation

This content is produced and maintained by the Eclipse Jakarta Validation
project.

* Project home: https://projects.eclipse.org/projects/ee4j.validation

## Trademarks
```

```
 Jakarta Validation is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

* [The specification repository](https://github.com/jakartaee/validation-
spec)
* [The API repository](https://github.com/jakartaee/validation)
* [The TCK repository](https://github.com/jakartaee/validation-tck)

## Third-party Content

This project leverages the following third party content.

Test dependencies:

 * [TestNG](https://github.com/cbeust/testng) - Apache License 2.0
 * [JCommander](https://github.com/cbeust/jcommander) - Apache License 2.0
 * [SnakeYAML](https://bitbucket.org/asomov/snakeyaml/src) - Apache License
 2.0


--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 14
jakarta.ws.rs:jakarta.ws.rs-api
jakarta.xml.bind:jakarta.xml.bind-api

== License
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
```

```
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
/*
 * Copyright (c) 1997, 2023 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0, which is available at
 * http://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 15
org.checkerframework:checker-qual

== License
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 16
org.eclipse.jetty:jetty-io
org.eclipse.jetty:jetty-util

== License
Eclipse Public License - v 2.0 OR Apache-2.0

== Copyright Notices
//
// ========================================================================
```

```
// Copyright (c) 1995 Mort Bay Consulting Pty Ltd and others.
//
// This program and the accompanying materials are made available under the
// terms of the Eclipse Public License v. 2.0 which is available at
// https://www.eclipse.org/legal/epl-2.0, or the Apache License, Version 2.0
// which is available at https://www.apache.org/licenses/LICENSE-2.0.
//
// SPDX-License-Identifier: EPL-2.0 OR Apache-2.0
// ============================================================================
//

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 17
org.glassfish.hk2.external:aopalliance-repackaged
org.glassfish.hk2:hk2-api
org.glassfish.hk2:hk2-locator
org.glassfish.hk2:hk2-utils
org.glassfish.jersey.containers:jersey-container-servlet
org.glassfish.jersey.containers:jersey-container-servlet-core
org.glassfish.jersey.core:jersey-client
org.glassfish.jersey.core:jersey-common
org.glassfish.jersey.core:jersey-server
org.glassfish.jersey.ext:jersey-metainf-services
org.glassfish.jersey.inject:jersey-hk2

== License
Eclipse Public License 2.0 with secondary license GPL v2 with Classpath
 Exception

== Copyright Notices
/*
 * Copyright (c) 2014, 2018 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */

<!--

    Copyright (c) 2012, 2024 Oracle and/or its affiliates. All rights
 reserved.
    Copyright (c) 2018, 2019 Payara Foundation and/or its affiliates. All
 rights reserved.

    This program and the accompanying materials are made available under the
    terms of the Eclipse Public License v. 2.0, which is available at
    http://www.eclipse.org/legal/epl-2.0.

    This Source Code may also be made available under the following
 Secondary
    Licenses when the conditions for such availability set forth in the
    Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
    version 2 with the GNU Classpath Exception, which is available at
    https://www.gnu.org/software/classpath/license.html.
```

```
    SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

-->

# Notice for Jersey Core Common module
This content is produced and maintained by the Eclipse Jersey project.


* https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

Google Guava Version 18.0
* License: Apache License, 2.0
* Copyright: (C) 2009 The Guava Authors

JSR-166 Extension - JEP 266
* License: Creative Commons 1.0 (CC0)
* No copyright
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/publicdomain/zero/1.0/

# Notice for Jersey Core Server module
This content is produced and maintained by the Eclipse Jersey project.

* https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright
```

```
All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

org.glassfish.jersey.server.internal.monitoring.core
* License: Apache License, 2.0
* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
* Copyright 2010-2013 Coda Hale and Yammer, Inc.

org.objectweb.asm Version 9.7
* License: Modified BSD (https://asm.ow2.io/license.html)
* Copyright: (c) 2000-2011 INRIA, France Telecom. All rights reserved.

W3.org documents
* License: W3C License
* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium,
 (Massachusetts Institute of Technology, Institut National de Recherche
 en Informatique et en Automatique, Keio University). All Rights Reserved.
 http://www.w3.org/Consortium/Legal/

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 18
org.hibernate.validator:hibernate-validator

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Developer Certificate of Origin
Version 1.1

Copyright (C) 2004, 2006 The Linux Foundation and its contributors.
1 Letterman Drive
Suite D4700
San Francisco, CA, 94129

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.


Developer's Certificate of Origin 1.1
```

```
By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I
    have the right to submit it under the open source license
    indicated in the file; or

(b) The contribution is based upon previous work that, to the best
    of my knowledge, is covered under an appropriate open source
    license and I have the right under that license to submit that
    work with modifications, whether created in whole or in part
    by me, under the same open source license (unless I am
    permitted to submit under a different license), as indicated
    in the file; or

(c) The contribution was provided directly to me by some other
    person who certified (a), (b) or (c) and I have not modified
    it.

(d) I understand and agree that this project and the contribution
    are public and that a record of the contribution (including all
    personal information I submit with it, including my sign-off) is
    maintained indefinitely and may be redistributed consistent with
    this project or the open source license(s) involved.

/*
 * Hibernate Validator, declare and validate application constraints
 *
 * License: Apache License, Version 2.0
 * See the license.txt file in the root directory or <http://www.apache.org/
licenses/LICENSE-2.0>.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 19
org.javassist:javassist

== License

MOZILLA PUBLIC LICENSE
Version 1.1

1. Definitions.

    1.0.1. "Commercial Use" means distribution or otherwise making the
 Covered Code available to a third party.

    1.1. ''Contributor'' means each entity that creates or contributes to
 the creation of Modifications.

    1.2. ''Contributor Version'' means the combination of the Original Code,
 prior Modifications used by a Contributor, and the Modifications made by
 that particular Contributor.

    1.3. ''Covered Code'' means the Original Code or Modifications or the
 combination of the Original Code and Modifications, in each case including
 portions thereof.

    1.4. ''Electronic Distribution Mechanism'' means a mechanism generally
 accepted in the software development community for the electronic transfer
 of data.

    1.5. ''Executable'' means Covered Code in any form other than Source
 Code.
```

```
   1.6. ''Initial Developer'' means the individual or entity identified as
 the Initial Developer in the Source Code notice required by Exhibit A.

   1.7. ''Larger Work'' means a work which combines Covered Code or
 portions thereof with code not governed by the terms of this License.

   1.8. ''License'' means this document.

   1.8.1. "Licensable" means having the right to grant, to the maximum
 extent possible, whether at the time of the initial grant or subsequently
 acquired, any and all of the rights conveyed herein.

   1.9. ''Modifications'' means any addition to or deletion from the
 substance or structure of either the Original Code or any previous
 Modifications. When Covered Code is released as a series of files, a
 Modification is:
       A. Any addition to or deletion from the contents of a file
 containing Original Code or previous Modifications.

       B. Any new file that contains any part of the Original Code or
 previous Modifications.

   1.10. ''Original Code'' means Source Code of computer software code
 which is described in the Source Code notice required by Exhibit A as
 Original Code, and which, at the time of its release under this License is
 not already Covered Code governed by this License.

   1.10.1. "Patent Claims" means any patent claim(s), now owned or
 hereafter acquired, including without limitation,  method, process, and
 apparatus claims, in any patent Licensable by grantor.

   1.11. ''Source Code'' means the preferred form of the Covered Code for
 making modifications to it, including all modules it contains, plus any
 associated interface definition files, scripts used to control compilation
 and installation of an Executable, or source code differential comparisons
 against either the Original Code or another well known, available Covered
 Code of the Contributor's choice. The Source Code can be in a compressed
 or archival form, provided the appropriate decompression or de-archiving
 software is widely available for no charge.

   1.12. "You'' (or "Your")  means an individual or a legal entity
 exercising rights under, and complying with all of the terms of, this
 License or a future version of this License issued under Section 6.1. For
 legal entities, "You'' includes any entity which controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 "control'' means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. Source Code License.

   2.1. The Initial Developer Grant.
   The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive license, subject to third party intellectual property claims:
       (a)  under intellectual property rights (other than patent or
 trademark) Licensable by Initial Developer to use, reproduce, modify,
 display, perform, sublicense and distribute the Original Code (or portions
 thereof) with or without Modifications, and/or as part of a Larger Work;
 and
```

```
        (b) under Patents Claims infringed by the making, using or selling
 of Original Code, to make, have made, use, practice, sell, and offer for
 sale, and/or otherwise dispose of the Original Code (or portions thereof).
        (c) the licenses granted in this Section 2.1(a) and (b) are
 effective on the date Initial Developer first distributes Original Code
 under the terms of this License.

        (d) Notwithstanding Section 2.1(b) above, no patent license is
 granted: 1) for code that You delete from the Original Code; 2) separate
 from the Original Code;  or 3) for infringements caused by: i) the
 modification of the Original Code or ii) the combination of the Original
 Code with other software or devices.

    2.2. Contributor Grant.
    Subject to third party intellectual property claims, each Contributor
 hereby grants You a world-wide, royalty-free, non-exclusive license

        (a)  under intellectual property rights (other than patent or
 trademark) Licensable by Contributor, to use, reproduce, modify, display,
 perform, sublicense and distribute the Modifications created by such
 Contributor (or portions thereof) either on an unmodified basis, with other
 Modifications, as Covered Code and/or as part of a Larger Work; and

        (b) under Patent Claims infringed by the making, using, or
 selling of  Modifications made by that Contributor either alone and/or in
 combination with its Contributor Version (or portions of such combination),
 to make, use, sell, offer for sale, have made, and/or otherwise dispose of:
 1) Modifications made by that Contributor (or portions thereof); and 2) the
 combination of  Modifications made by that Contributor with its Contributor
 Version (or portions of such combination).

        (c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective
 on the date Contributor first makes Commercial Use of the Covered Code.

        (d)    Notwithstanding Section 2.2(b) above, no patent license is
 granted: 1) for any code that Contributor has deleted from the Contributor
 Version; 2)  separate from the Contributor Version;  3)  for infringements
 caused by: i) third party modifications of Contributor Version or ii)  the
 combination of Modifications made by that Contributor with other software
  (except as part of the Contributor Version) or other devices; or 4) under
 Patent Claims infringed by Covered Code in the absence of Modifications
 made by that Contributor.


3. Distribution Obligations.

    3.1. Application of License.
    The Modifications which You create or to which You contribute are
 governed by the terms of this License, including without limitation Section
 2.2. The Source Code version of Covered Code may be distributed only under
 the terms of this License or a future version of this License released
 under Section 6.1, and You must include a copy of this License with every
 copy of the Source Code You distribute. You may not offer or impose any
 terms on any Source Code version that alters or restricts the applicable
 version of this License or the recipients' rights hereunder. However, You
 may include an additional document offering the additional rights described
 in Section 3.5.

    3.2. Availability of Source Code.
    Any Modification which You create or to which You contribute must
 be made available in Source Code form under the terms of this License
 either on the same media as an Executable version or via an accepted
 Electronic Distribution Mechanism to anyone to whom you made an Executable
 version available; and if made available via Electronic Distribution
```

```
Mechanism, must remain available for at least twelve (12) months after
the date it initially became available, or at least six (6) months after a
subsequent version of that particular Modification has been made available
to such recipients. You are responsible for ensuring that the Source Code
version remains available even if the Electronic Distribution Mechanism is
maintained by a third party.

   3.3. Description of Modifications.
   You must cause all Covered Code to which You contribute to contain
a file documenting the changes You made to create that Covered Code
and the date of any change. You must include a prominent statement that
the Modification is derived, directly or indirectly, from Original Code
provided by the Initial Developer and including the name of the Initial
Developer in (a) the Source Code, and (b) in any notice in an Executable
version or related documentation in which You describe the origin or
ownership of the Covered Code.

   3.4. Intellectual Property Matters
       (a) Third Party Claims.
       If Contributor has knowledge that a license under a third party's
intellectual property rights is required to exercise the rights granted
by such Contributor under Sections 2.1 or 2.2, Contributor must include a
text file with the Source Code distribution titled "LEGAL'' which describes
the claim and the party making the claim in sufficient detail that a
recipient will know whom to contact. If Contributor obtains such knowledge
after the Modification is made available as described in Section 3.2,
Contributor shall promptly modify the LEGAL file in all copies Contributor
makes available thereafter and shall take other steps (such as notifying
appropriate mailing lists or newsgroups) reasonably calculated to inform
those who received the Covered Code that new knowledge has been obtained.

       (b) Contributor APIs.
       If Contributor's Modifications include an application programming
interface and Contributor has knowledge of patent licenses which are
reasonably necessary to implement that API, Contributor must also include
this information in the LEGAL file.

             (c)    Representations.
       Contributor represents that, except as disclosed pursuant to Section
3.4(a) above, Contributor believes that Contributor's Modifications are
Contributor's original creation(s) and/or Contributor has sufficient rights
to grant the rights conveyed by this License.


   3.5. Required Notices.
   You must duplicate the notice in Exhibit A in each file of the Source
Code.  If it is not possible to put such notice in a particular Source Code
file due to its structure, then You must include such notice in a location
(such as a relevant directory) where a user would be likely to look for
such a notice.  If You created one or more Modification(s) You may add
your name as a Contributor to the notice described in Exhibit A.  You must
also duplicate this License in any documentation for the Source Code where
You describe recipients' rights or ownership rights relating to Covered
Code.  You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Code. However, You may do so only on Your own behalf, and not on behalf
of the Initial Developer or any Contributor. You must make it absolutely
clear than any such warranty, support, indemnity or liability obligation
is offered by You alone, and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of warranty, support, indemnity
or liability terms You offer.

   3.6. Distribution of Executable Versions.
```

```
   You may distribute Covered Code in Executable form only if the
 requirements of Section 3.1-3.5 have been met for that Covered Code, and
 if You include a notice stating that the Source Code version of the Covered
 Code is available under the terms of this License, including a description
 of how and where You have fulfilled the obligations of Section 3.2. The
 notice must be conspicuously included in any notice in an Executable
 version, related documentation or collateral in which You describe
 recipients' rights relating to the Covered Code. You may distribute the
 Executable version of Covered Code or ownership rights under a license of
 Your choice, which may contain terms different from this License, provided
 that You are in compliance with the terms of this License and that the
 license for the Executable version does not attempt to limit or alter the
 recipient's rights in the Source Code version from the rights set forth in
 this License. If You distribute the Executable version under a different
 license You must make it absolutely clear that any terms which differ from
 this License are offered by You alone, not by the Initial Developer or any
 Contributor. You hereby agree to indemnify the Initial Developer and every
 Contributor for any liability incurred by the Initial Developer or such
 Contributor as a result of any such terms You offer.

   3.7. Larger Works.
   You may create a Larger Work by combining Covered Code with other code
 not governed by the terms of this License and distribute the Larger Work
 as a single product. In such a case, You must make sure the requirements of
 this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

   If it is impossible for You to comply with any of the terms of this
 License with respect to some or all of the Covered Code due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be included
 in the LEGAL file described in Section 3.4 and must be included with
 all distributions of the Source Code. Except to the extent prohibited by
 statute or regulation, such description must be sufficiently detailed for a
 recipient of ordinary skill to be able to understand it.

5. Application of this License.

   This License applies to code to which the Initial Developer has attached
 the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

   6.1. New Versions.
   Netscape Communications Corporation (''Netscape'') may publish revised
 and/or new versions of the License from time to time. Each version will be
 given a distinguishing version number.

   6.2. Effect of New Versions.
   Once Covered Code has been published under a particular version of
 the License, You may always continue to use it under the terms of that
 version. You may also choose to use such Covered Code under the terms of
 any subsequent version of the License published by Netscape. No one other
 than Netscape has the right to modify the terms applicable to Covered Code
 created under this License.

   6.3. Derivative Works.
   If You create or use a modified version of this License (which you may
 only do in order to apply it to code which is not already Covered Code
 governed by this License), You must (a) rename Your license so that the
 phrases ''Mozilla'', ''MOZILLAPL'', ''MOZPL'', ''Netscape'', "MPL", ''NPL''
 or any confusingly similar phrase do not appear in your license (except to
```

note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS'' BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declatory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which

```
 have been validly granted by You or any distributor hereunder prior to
 termination shall survive termination.

9. LIMITATION OF LIABILITY.

    UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
 (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL
 DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE,
 OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY
 INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER
 INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE,
 COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES
 OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY
 OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY
 FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE
 EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT
 ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES,
 SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

    The Covered Code is a ''commercial item,'' as that term is defined in 48
 C.F.R. 2.101 (Oct. 1995), consisting of ''commercial computer software''
 and ''commercial computer software documentation,'' as such terms are used
 in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48
 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End
 Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

    This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. This License shall be governed by California law provisions
 (except to the extent applicable law, if any, provides otherwise),
 excluding its conflict-of-law provisions. With respect to disputes in
 which at least one party is a citizen of, or an entity chartered or
 registered to do business in the United States of America, any litigation
 relating to this License shall be subject to the jurisdiction of the
 Federal Courts of the Northern District of California, with venue lying
 in Santa Clara County, California, with the losing party responsible for
 costs, including without limitation, court costs and reasonable attorneys'
 fees and expenses. The application of the United Nations Convention on
 Contracts for the International Sale of Goods is expressly excluded. Any
 law or regulation which provides that the language of a contract shall be
 construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
 responsible for claims and damages arising, directly or indirectly, out
 of its utilization of rights under this License and You agree to work
 with Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

    Initial Developer may designate portions of the Covered Code as
 "Multiple-Licensed".  "Multiple-Licensed" means that the Initial Developer
 permits you to utilize portions of the Covered Code under Your choice
 of the MPL or the alternative licenses, if any, specified by the Initial
 Developer in the file described in Exhibit A.
```

```
EXHIBIT A -Mozilla Public License.

    The contents of this file are subject to the Mozilla Public License
 Version 1.1 (the "License"); you may not use this file except in compliance
 with the License. You may obtain a copy of the License at
    http://www.mozilla.org/MPL/

    Software distributed under the License is distributed on an "AS IS"
 basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
 License for the specific language governing rights and limitations under
 the License.

    The Original Code is Javassist.

    The Initial Developer of the Original Code is Shigeru Chiba. Portions
 created by the Initial Developer are
      Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

    Contributor(s): __Bill Burke, Jason T. Greene_______________.

    Alternatively, the contents of this software may be used under the terms
 of the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),
 or the Apache License Version 2.0 (the "AL"), in which case the provisions
 of the LGPL or the AL are applicable instead of those above. If you wish to
 allow use of your version of this software only under the terms of either
 the LGPL or the AL, and not to allow others to use your version of this
 software under the terms of the MPL, indicate your decision by deleting
 the provisions above and replace them with the notice and other provisions
 required by the LGPL or the AL. If you do not delete the provisions above,
 a recipient may use your version of this software under the terms of any
 one of the MPL, the LGPL or the AL.

    If you obtain this software as part of JBoss, the contents of this
 software may be used under only the terms of the LGPL. To use them under
 the MPL, you must obtain a separate package including only Javassist but
 not the other part of JBoss.

    All the contributors to the original source tree have agreed to the
 original license term described above.

== Copyright Notices
/*
 * Javassist, a Java-bytecode translator toolkit.
 * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
 *
 * The contents of this file are subject to the Mozilla Public License
 Version
 * 1.1 (the "License"); you may not use this file except in compliance with
 * the License.  Alternatively, the contents of this file may be used under
 * the terms of the GNU Lesser General Public License Version 2.1 or later,
 * or the Apache License Version 2.0.
 *
 * Software distributed under the License is distributed on an "AS IS"
 basis,
 * WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 * for the specific language governing rights and limitations under the
 * License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 20
org.slf4j:slf4j-api
```

```
== License
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): Dropwizard lifecycle 3.0.7

```
------------------------------- Top-level license --------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 1
org.slf4j:slf4j-api

== License
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:
```

```
The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
org.eclipse.jetty:jetty-server

== License
Eclipse Public License - v 2.0 OR Apache-2.0

Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
```

```
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:
```

```
  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
```

```
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.
```

```
Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

Apache 2.0 (Same as Top-level license)

== Copyright Notices
//
// ========================================================================
// Copyright (c) 1995 Mort Bay Consulting Pty Ltd and others.
//
// This program and the accompanying materials are made available under the
// terms of the Eclipse Public License v. 2.0 which is available at
// https://www.eclipse.org/legal/epl-2.0, or the Apache License, Version 2.0
// which is available at https://www.apache.org/licenses/LICENSE-2.0.
//
// SPDX-License-Identifier: EPL-2.0 OR Apache-2.0
// ========================================================================
//

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
org.eclipse.jetty:jetty-server
org.eclipse.jetty:jetty-util

== License
```

```
== Copyright Notices

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
jakarta.servlet:jakarta.servlet-api

== License
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
/*
 * Copyright (c) 1997, 2023 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0, which is available at
 * http://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 5
io.dropwizard:dropwizard-util
io.dropwizard.metrics:metrics-core

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): Dropwizard Servlets 3.0.7

```
------------------------------- Top-level license -------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

---------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY 1
ch.qos.logback:logback-classic

== License

Logback LICENSE
---------------

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

   1. DEFINITIONS

   "Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
distributed under this Agreement, and

      b) in the case of each subsequent Contributor:

         i) changes to the Program, and

         ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates' from
a Contributor if it was added to the Program by such Contributor itself or
anyone acting on such Contributor's behalf. Contributions do not include
 additions
to the Program which: (i) are separate modules of software distributed in
conjunction with the Program under their own license agreement, and (ii) are
not derivative works of the Program.

   "Contributor" means any person or entity that distributes the Program.
```

```
"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including
all Contributors.

   2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce,
prepare derivative works of, publicly display, publicly perform, distribute
and sublicense the Contribution of such Contributor, if any, and such
 derivative
works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed
Patents to make, use, sell, offer to sell, import and otherwise transfer the
Contribution of such Contributor, if any, in source code and object code
 form.
This patent license shall apply to the combination of the Contribution and
the Program if, at the time the Contribution is added by the Contributor,
such addition of the Contribution causes such combination to be covered by
the Licensed Patents. The patent license shall not apply to any other
 combinations
which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
to its Contributions set forth herein, no assurances are provided by any
 Contributor
that the Program does not infringe the patent or other intellectual property
rights of any other entity. Each Contributor disclaims any liability to
 Recipient
for claims brought by any other entity based on infringement of intellectual
property rights or otherwise. As a condition to exercising the rights and
licenses granted hereunder, each Recipient hereby assumes sole
 responsibility
to secure any other intellectual property rights needed, if any. For
 example,
if a third party patent license is required to allow Recipient to distribute
the Program, it is Recipient's responsibility to acquire that license before
distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright
rights in its Contribution, if any, to grant the copyright license set forth
in this Agreement.

   3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
its own license agreement, provided that:

      a) it complies with the terms and conditions of this Agreement; and

      b) its license agreement:
```

```
i) effectively disclaims on behalf of all Contributors all warranties and
conditions, express and implied, including warranties or conditions of title
and non-infringement, and implied warranties or conditions of
 merchantability
and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages,
including direct, indirect, special, incidental and consequential damages,
such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor,
and informs licensees how to obtain it in a reasonable manner on or through
a medium customarily used for software exchange.

   When the Program is made available in source code form:

      a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
the Program.

Each Contributor must identify itself as the originator of its Contribution,
if any, in a manner that reasonably allows subsequent Recipients to identify
the originator of the Contribution.

   4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
who includes the Program in a commercial product offering should do so in
a manner which does not create potential liability for other Contributors.
Therefore, if a Contributor includes the Program in a commercial product
 offering,
such Contributor ("Commercial Contributor") hereby agrees to defend and
 indemnify
every other Contributor ("Indemnified Contributor") against any losses,
 damages
and costs (collectively "Losses") arising from claims, lawsuits and other
legal actions brought by a third party against the Indemnified Contributor
to the extent caused by the acts or omissions of such Commercial Contributor
in connection with its distribution of the Program in a commercial product
offering. The obligations in this section do not apply to any claims or
 Losses
relating to any actual or alleged intellectual property infringement. In
 order
to qualify, an Indemnified Contributor must: a) promptly notify the
 Commercial
Contributor in writing of such claim, and b) allow the Commercial
 Contributor
to control, and cooperate with the Commercial Contributor in, the defense
and any related settlement negotiations. The Indemnified Contributor may
 participate
in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If
```

```
that Commercial Contributor then makes performance claims, or offers
 warranties
related to Product X, those performance claims and warranties are such
 Commercial
Contributor's responsibility alone. Under this section, the Commercial
 Contributor
would have to defend claims against the other Contributors related to those
performance claims and warranties, and if a court requires any other
 Contributor
to pay any damages as a result, the Commercial Contributor must pay those
damages.

   5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS
OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
 PURPOSE.
Each Recipient is solely responsible for determining the appropriateness of
using and distributing the Program and assumes all risks associated with its
exercise of rights under this Agreement, including but not limited to the
risks and costs of program errors, compliance with applicable laws, damage
to or loss of data, programs or equipment, and unavailability or
 interruption
of operations.

   6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION
LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY
 RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

   7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable
law, it shall not affect the validity or enforceability of the remainder of
the terms of this Agreement, and without further action by the parties
 hereto,
such provision shall be reformed to the minimum extent necessary to make
 such
provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program itself
(excluding combinations of the Program with other software or hardware)
 infringes
such Recipient's patent(s), then such Recipient's rights granted under
 Section
2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
does not cure such failure in a reasonable period of time after becoming
 aware
```

```
of such noncompliance. If all Recipient's rights under this Agreement
 terminate,
Recipient agrees to cease use and distribution of the Program as soon as
 reasonably
practicable. However, Recipient's obligations under this Agreement and any
licenses granted by Recipient relating to the Program shall continue and
 survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
in order to avoid inconsistency the Agreement is copyrighted and may only
be modified in the following manner. The Agreement Steward reserves the
 right
to publish new versions (including revisions) of this Agreement from time
to time. No one other than the Agreement Steward has the right to modify
 this
Agreement. The Eclipse Foundation is the initial Agreement Steward. The
 Eclipse
Foundation may assign the responsibility to serve as the Agreement Steward
to a suitable separate entity. Each new version of the Agreement will be
 given
a distinguishing version number. The Program (including Contributions) may
always be distributed subject to the version of the Agreement under which
it was received. In addition, after a new version of the Agreement is
 published,
Contributor may elect to distribute the Program (including its
 Contributions)
under the new version. Except as expressly stated in Sections 2(a) and 2(b)
above, Recipient receives no rights or licenses to the intellectual property
of any Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted under
this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual
property laws of the United States of America. No party to this Agreement
will bring a legal action under this Agreement more than one year after the
cause of action arose. Each party waives its rights to a jury trial in any
resulting litigation.

---------------

                    GNU LESSER GENERAL PUBLIC LICENSE
                        Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.


  This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

  0. Additional Definitions.

  As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

  "The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

  An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
```

```
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

  A "Combined Work" is a work produced by combining or linking an
Application with the Library.  The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

  The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

  The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

  1. Exception to Section 3 of the GNU GPL.

  You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

  2. Conveying Modified Versions.

  If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified
version:

   a) under this License, provided that you make a good faith effort to
   ensure that, in the event an Application does not supply the
   function or data, the facility still operates, and performs
   whatever part of its purpose remains meaningful, or

   b) under the GNU GPL, with none of the additional permissions of
   this License applicable to that copy.

  3. Object Code Incorporating Material from Library Header Files.

  The object code form of an Application may incorporate material from
a header file that is part of the Library.  You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

   a) Give prominent notice with each copy of the object code that the
   Library is used in it and that the Library and its use are
   covered by this License.

   b) Accompany the object code with a copy of the GNU GPL and this license
   document.

  4. Combined Works.

  You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

   a) Give prominent notice with each copy of the Combined Work that
```

```
    the Library is used in it and that the Library and its use are
    covered by this License.

    b) Accompany the Combined Work with a copy of the GNU GPL and this
 license
    document.

    c) For a Combined Work that displays copyright notices during
    execution, include the copyright notice for the Library among
    these notices, as well as a reference directing the user to the
    copies of the GNU GPL and this license document.

    d) Do one of the following:

        0) Convey the Minimal Corresponding Source under the terms of this
        License, and the Corresponding Application Code in a form
        suitable for, and under terms that permit, the user to
        recombine or relink the Application with a modified version of
        the Linked Version to produce a modified Combined Work, in the
        manner specified by section 6 of the GNU GPL for conveying
        Corresponding Source.

        1) Use a suitable shared library mechanism for linking with the
        Library.  A suitable mechanism is one that (a) uses at run time
        a copy of the Library already present on the user's computer
        system, and (b) will operate properly with a modified version
        of the Library that is interface-compatible with the Linked
        Version.

    e) Provide Installation Information, but only if you would otherwise
    be required to provide such information under section 6 of the
    GNU GPL, and only to the extent that such information is
    necessary to install and execute a modified version of the
    Combined Work produced by recombining or relinking the
    Application with a modified version of the Linked Version. (If
    you use option 4d0, the Installation Information must accompany
    the Minimal Corresponding Source and Corresponding Application
    Code. If you use option 4d1, you must provide the Installation
    Information in the manner specified by section 6 of the GNU GPL
    for conveying Corresponding Source.)

  5. Combined Libraries.

  You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

    a) Accompany the combined library with a copy of the same work based
    on the Library, uncombined with any other library facilities,
    conveyed under the terms of this License.

    b) Give prominent notice with the combined library that part of it
    is a work based on the Library, and explaining where to find the
    accompanying uncombined form of the same work.

  6. Revised Versions of the GNU Lesser General Public License.

  The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.
```

```
  Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

  If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

== Copyright Notices

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 2
com.fasterxml.jackson.core:jackson-annotations

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------
```

```
== NAME OF DEPENDENCY 3
com.google.errorprone:error_prone_annotations

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright 2015 The Error Prone Authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
com.helger:profiler
io.dropwizard.metrics:metrics-annotation
io.dropwizard.metrics:metrics-core
io.dropwizard:dropwizard-servlets
io.dropwizard:dropwizard-util

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 5
jakarta.servlet:jakarta.servlet-api

== License
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
```

```
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
/*
 * Copyright (c) 1997, 2023 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0, which is available at
 * http://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 6
org.checkerframework:checker-qual

== License
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 7
org.slf4j:slf4j-api

== License
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
```

```
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): Dropwizard-auth 2.1.6

```
Top Level License for Dropwizard-auth

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
```

```
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
```

```
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------------------------------------------------
************************************************************
4P DEPENDENCIES

LICENSES

 io.dropwizard:dropwizard-jersey : The Apache Software License, Version 2.0
 text as above
 io.dropwizard:dropwizard-jackson : The Apache Software License, Version 2.0
 text as above
 io.dropwizard:dropwizard-validation : The Apache Software License, Version
 2.0 text as above
 io.dropwizard:dropwizard-logging : The Apache Software License, Version 2.0
 text as above
 io.dropwizard:dropwizard-util : The Apache Software License, Version 2.0
 text as above
 io.dropwizard.metrics:metrics-core : The Apache Software License, Version
 2.0 text as above
 io.dropwizard.metrics:metrics-caffeine : The Apache Software License,
 Version 2.0 text as above
 io.dropwizard.metrics:metrics-logback : The Apache Software License,
 Version 2.0 text as above
 io.dropwizard.metrics:metrics-jersey2 : The Apache Software License,
 Version 2.0 text as above
```

```
 io.dropwizard.metrics:metrics-annotation : The Apache Software License,
 Version 2.0 text as above
 io.dropwizard.logback:logback-throttling-appender : The Apache Software
 License, Version 2.0 text as above

NOTICE

Copyright (c) 2010-2013 Coda Hale, Yammer.com, 2014-2021 Dropwizard Team

Published under Apache Software License 2.0, see LICENSE

-------------------------------------------------------------------------------------------

LICENSES

    com.fasterxml.jackson.core:jackson-annotations : The Apache Software
 License, Version 2.0 text as above
    com.fasterxml.jackson.core:jackson-core : The Apache Software License,
 Version 2.0 text as above
    com.fasterxml.jackson.core:jackson-databind : The Apache Software
 License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-guava : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-jsr310 : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-jdk8 : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-joda : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.module:jackson-module-jaxb-annotations : The
 Apache Software License, Version 2.0 text as above
    com.fasterxml.jackson.jaxrs:jackson-jaxrs-base : The Apache Software
 License, Version 2.0 text as above

NOTICES

    com.fasterxml.jackson.core:jackson-core
    com.fasterxml.jackson.core:jackson-databind
    com.fasterxml.jackson.module:jackson-module-blackbird

    # Jackson JSON processor

    Jackson is a high-performance, Free/Open Source JSON processing library.
    It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
    been in development since 2007.
    It is currently developed by a community of developers.

    ## Licensing

    Jackson 2.x core and extension components are licensed under Apache
 License 2.0
    To find the details that apply to this artifact see the accompanying
 LICENSE file.

    ## Credits

    A list of contributors may be found from CREDITS(-2.x) file, which is
 included
    in some artifacts (usually source distributions); but is always
 available
    from the source code management (SCM) system project uses.

-------------------------------------------------------------------------------------------
```

```
LICENSES

    com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.module:jackson-module-parameter-names : The Apache
 Software License, Version 2.0 text as above

NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


-------------------------------------------------------------------------------------

LICENSE

    com.fasterxml.jackson.module:jackson-module-blackbird : The Apache
 Software License, Version 2.0 text as above

NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
```

```
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

-----------------------------------------------------------------------------------------

LICENSE

com.fasterxml:classmate : The Apache Software License, Version 2.0 text as
 above

NOTICE

Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

Other developers who have contributed code are:
* Brian Langel

-----------------------------------------------------------------------------------------

LICENSE

org.glassfish:jakarta.el : Eclipse Public License - v 2.0

Eclipse Public License - v 2.0
    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
```

```
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).
```

```
3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
```

apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's

```
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.


---

NOTICE

Notices for Jakarta Expression Language
This content is produced and maintained by the Jakarta Expression Language
 project.

Project home: https://projects.eclipse.org/projects/ee4j.el
Trademarks
Jakarta Expression Language is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
```

```
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/el-ri
Third-party Content
Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.

--------------------------------------------------------------------------------

LICENSE

org.glassfish.jersey.ext:jersey-metainf-services : Eclipse Public License -
 v 2.0 text as above
org.glassfish.jersey.inject:jersey-hk2 : Eclipse Public License - v 2.0 text
 as above
org.glassfish.jersey.containers:jersey-container-servlet : Eclipse Public
 License - v 2.0 text as above
org.glassfish.jersey.containers:jersey-container-servlet-core: Eclipse
 Public License - v 2.0 text as above
org.glassfish.jersey.core:jersey-client : Eclipse Public License - v 2.0
 text as above

NOTICE

Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above
```

```
Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License MIT (http://www.opensource.org/licenses/mit-license.php)

            The MIT License (MIT)
      Copyright <YEAR> <COPYRIGHT HOLDER>

   Permission is hereby granted, free of charge, to any person obtaining a
 copy of this software and associated documentation files (the “Software”),
 to deal in the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

   The above copyright notice and this permission notice shall be included
 in all copies or substantial portions of the Software.

   THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0 text as above
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Hibernate Validator CDI, 6.2.4.Final

License: Apache License, 2.0 text as above
Project: https://beanvalidation.org/
Repackaged in org.glassfish.jersey.server.validation.internal.hibernate
Bootstrap v3.3.7

License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)

      The MIT License (MIT)

   Copyright (c) 2011-2023 The Bootstrap Authors

   Permission is hereby granted, free of charge, to any person obtaining a
 copy
   of this software and associated documentation files (the "Software"), to
 deal
   in the Software without restriction, including without limitation the
 rights
   to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
   copies of the Software, and to permit persons to whom the Software is
   furnished to do so, subject to the following conditions:

   The above copyright notice and this permission notice shall be included
 in
   all copies or substantial portions of the Software.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
   IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
   FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
   AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
   LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
   OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
   THE SOFTWARE.

Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0 text as above
Copyright (C) 2009 The Guava Authors
javax.inject Version: 1

License: Apache License, 2.0 text as above
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.29.0-GA

License: Apache License, 2.0 text as above
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.14.1

License: Apache License, 2.0 text as above
Project: https://github.com/FasterXML/jackson-jaxrs-providers
Copyright: (c) 2009-2022 FasterXML, LLC. All rights reserved unless
 otherwise indicated.
jQuery v1.12.4

License: jquery.org/license

   Note: For the purposes of this document, the term "Project" will refer
 to any JS Foundation project using the MIT license AND referencing this
 document in the header of the distributed Project code or Project website
 source code.

   linkSource Code
   Projects referencing this document are released under the terms of the
 MIT license.

   The MIT License is simple and easy to understand and it places almost no
 restrictions on what you can do with the Project.

   You are free to use the Project in any other project (even commercial
 projects) as long as the copyright header is left intact.

   linkSample Code
   All demos and examples, whether in a Project's repository or displayed on
 a Project site, are released under the terms of the license as specified in
 the relevant repository. Many Projects choose to release their sample code
 under the terms of CC0.
```

```
   CC0 is even more permissive than the MIT license, allowing you to use the
 code in any manner you want, without any copyright headers, notices, or
 other attribution.

   linkWeb Sites
   The content on a Project web site referencing this document in its header
 is released under the terms of the license specified in the website's
 repository or if not specified, under the MIT license.

   The design, layout, and look-and-feel of JS Foundation project web sites
 are not licensed for use and may not be used on any site, personal or
 commercial, without prior written consent from the JS Foundation.

   For further information regarding JS Foundation licensing and
 intellectual property, please review the JS Foundation IP Policy.

Project: jquery.org
Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3

License: The MIT License text as above & Gnu General public license (http://
www.opensource.org/licenses/mit-license.php & http://www.gnu.org/licenses/
gpl.html)


Project: http://www.pasella.it/projects/jQuery/barcode
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
JSR-166 Extension - JEP 266

License: CC0
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166 Expert
 Group and released to the public domain, as explained at http://
creativecommons.org/publicdomain/zero/1.0/
KineticJS, v4.7.1

License: The MIT license text as above (http://www.opensource.org/licenses/
mit-license.php)
Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
Copyright: Eric Rowell
org.objectweb.asm Version 9.4

License: Modified BSD (https://asm.ow2.io/license.html)

   ASM is released under the following 3-Clause BSD License:

   ASM: a very small and fast Java bytecode manipulation framework
   Copyright (c) 2000-2011 INRIA, France Telecom
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions
   are met:
   1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
   2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
   3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
```

```
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
  PURPOSE
    ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
    LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
    SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
    INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
    CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
    ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
    THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
org.osgi.core version 6.0.0

License: Apache License, 2.0 text as above
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0 text as above
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents

License: W3C License

    This W3C work (including software, documents, or other related items)
  is being provided by the copyright holders under the following license. By
  obtaining, using and/or copying this work, you (the licensee) agree that
  you have read, understood, and will comply with the following terms and
  conditions:

    Permission to use, copy, modify, and distribute this software and its
  documentation, with or without modification,  for any purpose and without
  fee or royalty is hereby granted, provided that you include the following
  on ALL copies of the software and documentation or portions thereof,
  including modifications, that you make:

    The full text of this NOTICE in a location viewable to users of the
  redistributed or derivative work.
    Any pre-existing intellectual property disclaimers, notices, or terms and
  conditions. If none exist, a short notice of the following form (hypertext
  is preferred, text is permitted) should be used within the body of any
  redistributed or derivative code: "Copyright © [$date-of-software] World
  Wide Web Consortium, (Massachusetts Institute of Technology, Institut
  National de Recherche en Informatique et en Automatique, Keio University).
  All Rights Reserved. http://www.w3.org/Consortium/Legal/"
    Notice of any changes or modifications to the W3C files, including the
  date changes were made. (We recommend you provide URIs to the location from
  which the code is derived.)
    THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT
  HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED,
  INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR
  ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION
  WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER
  RIGHTS.

    COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL
  OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR
  DOCUMENTATION.

    The name and trademarks of copyright holders may NOT be used in
  advertising or publicity pertaining to the software without specific,
```

```
 written prior permission. Title to copyright in this software and any
 associated documentation will at all times remain with copyright holders.

Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/

-----------------------------------------------------------------------------------------------

LICENSE

org.glassfish.hk2:hk2-locator : Eclipse Public License - v 2.0 text as above
org.glassfish.hk2:hk2-api:jar: Eclipse Public License - v 2.0 text as above
org.glassfish.hk2:hk2-utils: : Eclipse Public License - v 2.0 text as above
org.glassfish.hk2.external: : Eclipse Public License - v 2.0 text as above


NOTICE

Notices for Eclipse GlassFish
This content is produced and maintained by the Eclipse GlassFish project.

Project home: https://projects.eclipse.org/projects/ee4j.glassfish
Trademarks
Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/glassfish-ha-api
https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
https://github.com/eclipse-ee4j/glassfish-shoal
https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
https://github.com/eclipse-ee4j/glassfish-jsftemplating
https://github.com/eclipse-ee4j/glassfish-hk2-extra
https://github.com/eclipse-ee4j/glassfish-hk2
https://github.com/eclipse-ee4j/glassfish-fighterfish
Third-party Content
This project leverages the following third party content.

None

Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
```

```
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.
-----------------------------------------------------------------------------------------------

LICENSE

org.glassfish.jersey.core:jersey-common : Eclipse Public License - v 2.0
 text as above

NOTICE

Notice for Jersey Core Common module
This content is produced and maintained by the Eclipse Jersey project.

https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Google Guava Version 18.0

License: Apache License, 2.0 text as above
Copyright: (C) 2009 The Guava Authors
JSR-166 Extension - JEP 266

License: Creative Commons 1.0 (CC0)
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166
Expert Group and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/

Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.
```

```
Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License: The MIT License text as above (http://www.opensource.org/licenses/
mit-license.php)
Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0 text as above
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Hibernate Validator CDI, 6.2.4.Final

License: Apache License, 2.0 text as above
Project: https://beanvalidation.org/
Repackaged in org.glassfish.jersey.server.validation.internal.hibernate
Bootstrap v3.3.7

License: The MIT license text as above (https://github.com/twbs/bootstrap/
blob/master/LICENSE)
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0 text as above
Copyright (C) 2009 The Guava Authors
javax.inject Version: 1

License: Apache License, 2.0 text as above
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.29.0-GA

License: Apache License, 2.0 text as above
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.14.1

License: Apache License, 2.0 text as above
Project: https://github.com/FasterXML/jackson-jaxrs-providers
```

```
Copyright: (c) 2009-2022 FasterXML, LLC. All rights reserved unless
 otherwise indicated.
jQuery v1.12.4

License: jquery.org/license text as above
Project: jquery.org
Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3

License: The MIT License text as above & Gnu General public license text
 as above (http://www.opensource.org/licenses/mit-license.php & http://
www.gnu.org/licenses/gpl.html)
Project: http://www.pasella.it/projects/jQuery/barcode
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
JSR-166 Extension - JEP 266

License: CC0
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166 Expert
 Group and released to the public domain, as explained at http://
creativecommons.org/publicdomain/zero/1.0/
KineticJS, v4.7.1

License: The MIT license text as above (http://www.opensource.org/licenses/
mit-license.php)
Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
Copyright: Eric Rowell
org.objectweb.asm Version 9.4

License: Modified BSD text as above (https://asm.ow2.io/license.html)
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
org.osgi.core version 6.0.0

License: Apache License, 2.0 text as above
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0 text as above
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents

License: W3C License text as above
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/

-------------------------------------------------------------------------------------------

LICENSE

org.glassfish.jersey.core:jersey-server : Eclipse Public License - v 2.0
 text as above

NOTICE

Notice for Jersey Core Server module
This content is produced and maintained by the Eclipse Jersey project.

https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.
```

```
Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0 text as above
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
org.objectweb.asm Version 9.4

License: Modified BSD (https://asm.ow2.io/license.html) text as above
Copyright: (c) 2000-2011 INRIA, France Telecom. All rights reserved.
W3.org documents

License: W3C License text as above
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/

Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
```

```
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License: The MIT License text as above (http://www.opensource.org/licenses/
mit-license.php)
Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0 text as above
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Hibernate Validator CDI, 6.2.4.Final

License: Apache License, 2.0 text as above
Project: https://beanvalidation.org/
Repackaged in org.glassfish.jersey.server.validation.internal.hibernate
Bootstrap v3.3.7

License: The MIT license text as above (https://github.com/twbs/bootstrap/
blob/master/LICENSE)
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0 text as above
Copyright (C) 2009 The Guava Authors
javax.inject Version: 1

License: Apache License, 2.0 text as above
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.29.0-GA

License: Apache License, 2.0 text as above
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.14.1

License: Apache License, 2.0 text as above
Project: https://github.com/FasterXML/jackson-jaxrs-providers
Copyright: (c) 2009-2022 FasterXML, LLC. All rights reserved unless
 otherwise indicated.
jQuery v1.12.4

License: jquery.org/license text as above
Project: jquery.org
Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3

License: The MIT License text as above & Gnu General public license text
 as above (http://www.opensource.org/licenses/mit-license.php & http://
www.gnu.org/licenses/gpl.html)
Project: http://www.pasella.it/projects/jQuery/barcode
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
```

```
JSR-166 Extension - JEP 266

License: CC0
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166 Expert
 Group and released to the public domain, as explained at http://
creativecommons.org/publicdomain/zero/1.0/
KineticJS, v4.7.1

License: The MIT license text as above (http://www.opensource.org/licenses/
mit-license.php)
Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
Copyright: Eric Rowell
org.objectweb.asm Version 9.4

License: Modified BSD text as above (https://asm.ow2.io/license.html)
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
org.osgi.core version 6.0.0

License: Apache License, 2.0 text as above
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0 text as above
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents

License: W3C License text as above
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/

-------------------------------------------------------------------------------------------

LICENSE

org.glassfish.hk2:osgi-resource-locator : Eclipse Public License - v 2.0
 text as above

NOTICE

  Copyright (c) 2009, 2018 Oracle and/or its affiliates. All rights
 reserved.

  This program and the accompanying materials are made available under the
  terms of the Eclipse Public License v. 2.0, which is available at
  http://www.eclipse.org/legal/epl-2.0.

  This Source Code may also be made available under the following Secondary
  Licenses when the conditions for such availability set forth in the
  Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
  version 2 with the GNU Classpath Exception, which is available at
  https://www.gnu.org/software/classpath/license.html.

  SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

-------------------------------------------------------------------------------------------

LICENSE

com.google.code.findbugs:jsr305 : BSD 3-Clause
```

```
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:
== jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
```

```
LICENSE

com.google.errorprone:error_prone_annotations : The Apache Software License,
 Version 2.0 text as above

NOTICE
# This is the list of Error Prone authors for copyright purposes.
#
# This does not necessarily list everyone who has contributed code, since in
# some cases, their employer may be the copyright holder.  To see the full
 list
# of contributors, see the revision history in source control.
Google Inc.
Two Sigma Open Source
-------------------------------------------------------------------------------------------

LICENSES

com.google.guava:guava : The Apache Software License, Version 2.0 text as
 above
com.google.guava:failureaccess  : The Apache Software License, Version 2.0
 text as above
com.google.guava:listenablefuture : The Apache Software License, Version 2.0
 text as above

NOTICE

com.google.guava:guava

   Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");

      The Apache Software License, Version 2.0 text as above

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------

LICENSE

com.google.j2objc:j2objc-annotations : The Apache Software License, Version
 2.0 text as above

NOTICE
  Copyright 2012 Google Inc. All Rights Reserved.

  Licensed under the Apache License, Version 2.0 (the "License");

      The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------------------------------------------------------------------------------------------

LICENSES
```

```
org.javassist:javassist


The Apache Software License, Version 2.0 text as above

MOZILLA PUBLIC LICENSE
   Version 1.1
   1. Definitions.

   1.0.1. "Commercial Use" means distribution or otherwise making the
 Covered Code available to a third party.
   1.1. ''Contributor'' means each entity that creates or contributes to the
 creation of Modifications.

   1.2. ''Contributor Version'' means the combination of the Original Code,
 prior Modifications used by a Contributor, and the Modifications made by
 that particular Contributor.

   1.3. ''Covered Code'' means the Original Code or Modifications or the
 combination of the Original Code and Modifications, in each case including
 portions thereof.

   1.4. ''Electronic Distribution Mechanism'' means a mechanism generally
 accepted in the software development community for the electronic transfer
 of data.

   1.5. ''Executable'' means Covered Code in any form other than Source
 Code.

   1.6. ''Initial Developer'' means the individual or entity identified as
 the Initial Developer in the Source Code notice required by Exhibit A.

   1.7. ''Larger Work'' means a work which combines Covered Code or portions
 thereof with code not governed by the terms of this License.

   1.8. ''License'' means this document.

   1.8.1. "Licensable" means having the right to grant, to the maximum
 extent possible, whether at the time of the initial grant or subsequently
 acquired, any and all of the rights conveyed herein.

   1.9. ''Modifications'' means any addition to or deletion from the
 substance or structure of either the Original Code or any previous
 Modifications. When Covered Code is released as a series of files, a
 Modification is:

   A. Any addition to or deletion from the contents of a file containing
 Original Code or previous Modifications.
   B. Any new file that contains any part of the Original Code or previous
 Modifications.


   1.10. ''Original Code'' means Source Code of computer software code which
 is described in the Source Code notice required by Exhibit A as Original
 Code, and which, at the time of its release under this License is not
 already Covered Code governed by this License.
   1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter
 acquired, including without limitation,  method, process, and apparatus
 claims, in any patent Licensable by grantor.

   1.11. ''Source Code'' means the preferred form of the Covered Code for
 making modifications to it, including all modules it contains, plus any
 associated interface definition files, scripts used to control compilation
 and installation of an Executable, or source code differential comparisons
```

against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. "You'' (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You'' includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control'' means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. Source Code License.
2.1. The Initial Developer Grant.
The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:
(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and
(b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.
(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

2.2. Contributor Grant.
Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and
(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under

```
Patent Claims infringed by Covered Code in the absence of Modifications
made by that Contributor.


  3. Distribution Obligations.

  3.1. Application of License.
  The Modifications which You create or to which You contribute are
governed by the terms of this License, including without limitation Section
2.2. The Source Code version of Covered Code may be distributed only under
the terms of this License or a future version of this License released
under Section 6.1, and You must include a copy of this License with every
copy of the Source Code You distribute. You may not offer or impose any
terms on any Source Code version that alters or restricts the applicable
version of this License or the recipients' rights hereunder. However, You
may include an additional document offering the additional rights described
in Section 3.5.
  3.2. Availability of Source Code.
  Any Modification which You create or to which You contribute must be
made available in Source Code form under the terms of this License either
on the same media as an Executable version or via an accepted Electronic
Distribution Mechanism to anyone to whom you made an Executable version
available; and if made available via Electronic Distribution Mechanism,
must remain available for at least twelve (12) months after the date it
initially became available, or at least six (6) months after a subsequent
version of that particular Modification has been made available to such
recipients. You are responsible for ensuring that the Source Code version
remains available even if the Electronic Distribution Mechanism is
maintained by a third party.

  3.3. Description of Modifications.
  You must cause all Covered Code to which You contribute to contain a file
documenting the changes You made to create that Covered Code and the date
of any change. You must include a prominent statement that the Modification
is derived, directly or indirectly, from Original Code provided by the
Initial Developer and including the name of the Initial Developer in (a)
the Source Code, and (b) in any notice in an Executable version or related
documentation in which You describe the origin or ownership of the Covered
Code.

  3.4. Intellectual Property Matters

  (a) Third Party Claims.
  If Contributor has knowledge that a license under a third party's
intellectual property rights is required to exercise the rights granted
by such Contributor under Sections 2.1 or 2.2, Contributor must include a
text file with the Source Code distribution titled "LEGAL'' which describes
the claim and the party making the claim in sufficient detail that a
recipient will know whom to contact. If Contributor obtains such knowledge
after the Modification is made available as described in Section 3.2,
Contributor shall promptly modify the LEGAL file in all copies Contributor
makes available thereafter and shall take other steps (such as notifying
appropriate mailing lists or newsgroups) reasonably calculated to inform
those who received the Covered Code that new knowledge has been obtained.
  (b) Contributor APIs.
  If Contributor's Modifications include an application programming
interface and Contributor has knowledge of patent licenses which are
reasonably necessary to implement that API, Contributor must also include
this information in the LEGAL file.


            (c)    Representations.
  Contributor represents that, except as disclosed pursuant to Section
3.4(a) above, Contributor believes that Contributor's Modifications are
```

```
Contributor's original creation(s) and/or Contributor has sufficient rights
to grant the rights conveyed by this License.

  3.5. Required Notices.
  You must duplicate the notice in Exhibit A in each file of the Source
Code.  If it is not possible to put such notice in a particular Source Code
file due to its structure, then You must include such notice in a location
(such as a relevant directory) where a user would be likely to look for
such a notice.  If You created one or more Modification(s) You may add
your name as a Contributor to the notice described in Exhibit A.  You must
also duplicate this License in any documentation for the Source Code where
You describe recipients' rights or ownership rights relating to Covered
Code.  You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Code. However, You may do so only on Your own behalf, and not on behalf
of the Initial Developer or any Contributor. You must make it absolutely
clear than any such warranty, support, indemnity or liability obligation
is offered by You alone, and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of warranty, support, indemnity
or liability terms You offer.

  3.6. Distribution of Executable Versions.
  You may distribute Covered Code in Executable form only if the
requirements of Section 3.1-3.5 have been met for that Covered Code, and
if You include a notice stating that the Source Code version of the Covered
Code is available under the terms of this License, including a description
of how and where You have fulfilled the obligations of Section 3.2. The
notice must be conspicuously included in any notice in an Executable
version, related documentation or collateral in which You describe
recipients' rights relating to the Covered Code. You may distribute the
Executable version of Covered Code or ownership rights under a license of
Your choice, which may contain terms different from this License, provided
that You are in compliance with the terms of this License and that the
license for the Executable version does not attempt to limit or alter the
recipient's rights in the Source Code version from the rights set forth in
this License. If You distribute the Executable version under a different
license You must make it absolutely clear that any terms which differ from
this License are offered by You alone, not by the Initial Developer or any
Contributor. You hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial Developer or such
Contributor as a result of any such terms You offer.

  3.7. Larger Works.
  You may create a Larger Work by combining Covered Code with other code
not governed by the terms of this License and distribute the Larger Work
as a single product. In such a case, You must make sure the requirements of
this License are fulfilled for the Covered Code.

  4. Inability to Comply Due to Statute or Regulation.
  If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Code due to statute,
judicial order, or regulation then You must: (a) comply with the terms
of this License to the maximum extent possible; and (b) describe the
limitations and the code they affect. Such description must be included
in the LEGAL file described in Section 3.4 and must be included with
all distributions of the Source Code. Except to the extent prohibited by
statute or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.
  5. Application of this License.
  This License applies to code to which the Initial Developer has attached
the notice in Exhibit A and to related Covered Code.
  6. Versions of the License.
  6.1. New Versions.
```

```
  Netscape Communications Corporation (''Netscape'') may publish revised
and/or new versions of the License from time to time. Each version will be
given a distinguishing version number.
  6.2. Effect of New Versions.
  Once Covered Code has been published under a particular version of
the License, You may always continue to use it under the terms of that
version. You may also choose to use such Covered Code under the terms of
any subsequent version of the License published by Netscape. No one other
than Netscape has the right to modify the terms applicable to Covered Code
created under this License.

  6.3. Derivative Works.
  If You create or use a modified version of this License (which you may
only do in order to apply it to code which is not already Covered Code
governed by this License), You must (a) rename Your license so that the
phrases ''Mozilla'', ''MOZILLAPL'', ''MOZPL'', ''Netscape'', "MPL", ''NPL''
or any confusingly similar phrase do not appear in your license (except to
note that your license differs from this License) and (b) otherwise make it
clear that Your version of the license contains terms which differ from the
Mozilla Public License and Netscape Public License. (Filling in the name of
the Initial Developer, Original Code or Contributor in the notice described
in Exhibit A shall not of themselves be deemed to be modifications of this
License.)

  7. DISCLAIMER OF WARRANTY.
  COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS'' BASIS,
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS,
MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE
RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH
YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT
THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE
IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.
  8. TERMINATION.
  8.1.  This License and the rights granted hereunder will terminate
automatically if You fail to comply with terms herein and fail to cure such
breach within 30 days of becoming aware of the breach. All sublicenses to
the Covered Code which are properly granted shall survive any termination
of this License. Provisions which, by their nature, must remain in effect
beyond the termination of this License shall survive.
  8.2.  If You initiate litigation by asserting a patent infringement
claim (excluding declatory judgment actions) against Initial Developer or
a Contributor (the Initial Developer or Contributor against whom You file
such action is referred to as "Participant")  alleging that:

  (a)  such Participant's Contributor Version directly or indirectly
infringes any patent, then any and all rights granted by such Participant
to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days
notice from Participant terminate prospectively, unless if within 60
days after receipt of notice You either: (i)  agree in writing to pay
Participant a mutually agreeable reasonable royalty for Your past and
future use of Modifications made by such Participant, or (ii) withdraw
Your litigation claim with respect to the Contributor Version against such
Participant.  If within 60 days of notice, a reasonable royalty and payment
arrangement are not mutually agreed upon in writing by the parties or the
litigation claim is not withdrawn, the rights granted by Participant to You
under Sections 2.1 and/or 2.2 automatically terminate at the expiration of
the 60 day notice period specified above.

  (b)  any software, hardware, or device, other than such Participant's
Contributor Version, directly or indirectly infringes any patent, then
any rights granted to You by such Participant under Sections 2.1(b) and
```

2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.
UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.
10. U.S. GOVERNMENT END USERS.
The Covered Code is a ''commercial item,'' as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of ''commercial computer software'' and ''commercial computer software documentation,'' as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.
11. MISCELLANEOUS.
This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.
12. RESPONSIBILITY FOR CLAIMS.
As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.
13. MULTIPLE-LICENSED CODE.
Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer

```
 permits you to utilize portions of the Covered Code under Your choice
 of the MPL or the alternative licenses, if any, specified by the Initial
 Developer in the file described in Exhibit A.

   EXHIBIT A -Mozilla Public License.

   The contents of this file are subject to the Mozilla Public License
 Version 1.1 (the "License"); you may not use this file except in compliance
 with the License. You may obtain a copy of the License at
   http://www.mozilla.org/MPL/
   Software distributed under the License is distributed on an "AS IS"
 basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
 License for the specific language governing rights and limitations under
 the License.

   The Original Code is Javassist.

   The Initial Developer of the Original Code is Shigeru Chiba. Portions
 created by the Initial Developer are
   Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

   Contributor(s): __Bill Burke, Jason T. Greene_______________.

   Alternatively, the contents of this software may be used under the terms
 of the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),
 or the Apache License Version 2.0 (the "AL"), in which case the provisions
 of the LGPL or the AL are applicable instead of those above. If you wish to
 allow use of your version of this software only under the terms of either
 the LGPL or the AL, and not to allow others to use your version of this
 software under the terms of the MPL, indicate your decision by deleting
 the provisions above and replace them with the notice and other provisions
 required by the LGPL or the AL. If you do not delete the provisions above,
 a recipient may use your version of this software under the terms of any
 one of the MPL, the LGPL or the AL.

   If you obtain this software as part of JBoss, the contents of this
 software may be used under only the terms of the LGPL. To use them under
 the MPL, you must obtain a separate package including only Javassist but
 not the other part of JBoss.

   All the contributors to the original source tree have agreed to the
 original license term described above.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

   Copyright (C) 1991, 1999 Free Software Foundation, Inc.
   51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
   Everyone is permitted to copy and distribute verbatim copies
   of this license document, but changing it is not allowed.

   [This is the first released version of the Lesser GPL.  It also counts
   as the successor of the GNU Library Public License, version 2, hence
   the version number 2.1.]
   Preamble
   The licenses for most software are designed to take away your freedom
 to share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

   This license, the Lesser General Public License, applies to some
 specially designated software packages--typically libraries--of the Free
 Software Foundation and other authors who decide to use it. You can use it
 too, but we suggest you first think carefully about whether this license
```

```
or the ordinary General Public License is the better strategy to use in any
particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use, not
price. Our General Public Licenses are designed to make sure that you have
the freedom to distribute copies of free software (and charge for this
service if you wish); that you receive source code or can get it if you
want it; that you can change the software and use pieces of it in new free
programs; and that you are informed that you can do these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for you if
you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis or
for a fee, you must give the recipients all the rights that we gave you.
You must make sure that they, too, receive or can get the source code.
If you link other code with the library, you must provide complete object
files to the recipients, so that they can relink them with the library
after making changes to the library and recompiling it. And you must show
them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright
the library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that there
is no warranty for the free library. Also, if the library is modified by
someone else and passed on, the recipients should know that what they have
is not the original version, so that the original author's reputation will
not be affected by problems that might be introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively
restrict the users of a free program by obtaining a restrictive license
from a patent holder. Therefore, we insist that any patent license obtained
for a version of the library must be consistent with the full freedom of
use specified in this license.

  Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License. This license, the GNU Lesser General Public
License, applies to certain designated libraries, and is quite different
from the ordinary General Public License. We use this license for certain
libraries in order to permit linking those libraries into non-free
programs.

  When a program is linked with a library, whether statically or using a
shared library, the combination of the two is legally speaking a combined
work, a derivative of the original library. The ordinary General Public
License therefore permits such linking only if the entire combination fits
its criteria of freedom. The Lesser General Public License permits more lax
criteria for linking other code with the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General Public
License. It also provides other free software developers Less of an
advantage over competing non-free programs. These disadvantages are the
reason we use the ordinary General Public License for many libraries.
However, the Lesser license provides advantages in certain special
circumstances.

  For example, on rare occasions, there may be a special need to encourage
the widest possible use of a certain library, so that it becomes a de-
```

```
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

   In other cases, permission to use a particular library in non-free
 programs enables a greater number of people to use a large body of free
 software. For example, permission to use the GNU C Library in non-free
 programs enables many more people to use the whole GNU operating system, as
 well as its variant, the GNU/Linux operating system.

   Although the Lesser General Public License is Less protective of the
 users' freedom, it does ensure that the user of a program that is linked
 with the Library has the freedom and the wherewithal to run that program
 using a modified version of the Library.

   The precise terms and conditions for copying, distribution and
 modification follow. Pay close attention to the difference between a
 "work based on the library" and a "work that uses the library". The former
 contains code derived from the library, whereas the latter must be combined
 with the library in order to run.

   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
   0. This License Agreement applies to any software library or other
 program which contains a notice placed by the copyright holder or other
 authorized party saying it may be distributed under the terms of this
 Lesser General Public License (also called "this License"). Each licensee
 is addressed as "you".

   A "library" means a collection of software functions and/or data prepared
 so as to be conveniently linked with application programs (which use some
 of those functions and data) to form executables.

   The "Library", below, refers to any such software library or work which
 has been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is
 to say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

   "Source code" for a work means the preferred form of the work for
 making modifications to it. For a library, complete source code means
 all the source code for all modules it contains, plus any associated
 interface definition files, plus the scripts used to control compilation
 and installation of the library.

   Activities other than copying, distribution and modification are not
 covered by this License; they are outside its scope. The act of running a
 program using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.

   1. You may copy and distribute verbatim copies of the Library's
 complete source code as you receive it, in any medium, provided that
 you conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.
```

```
  You may charge a fee for the physical act of transferring a copy, and you
may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Library or any portion of
it, thus forming a work based on the Library, and copy and distribute such
modifications or work under the terms of Section 1 above, provided that you
also meet all of these conditions:

  a) The modified work must itself be a software library.
  b) You must cause the files modified to carry prominent notices stating
that you changed the files and the date of any change.
  c) You must cause the whole of the work to be licensed at no charge to
all third parties under the terms of this License.
  d) If a facility in the modified Library refers to a function or a table
of data to be supplied by an application program that uses the facility,
other than as an argument passed when the facility is invoked, then you
must make a good faith effort to ensure that, in the event an application
does not supply such function or table, the facility still operates, and
performs whatever part of its purpose remains meaningful.
  (For example, a function in a library to compute square roots has a
purpose that is entirely well-defined independent of the application.
Therefore, Subsection 2d requires that any application-supplied function or
table used by this function must be optional: if the application does not
supply it, the square root function must still compute square roots.)

  These requirements apply to the modified work as a whole. If identifiable
sections of that work are not derived from the Library, and can be
reasonably considered independent and separate works in themselves,
then this License, and its terms, do not apply to those sections when
you distribute them as separate works. But when you distribute the same
sections as part of a whole which is a work based on the Library, the
distribution of the whole must be on the terms of this License, whose
permissions for other licensees extend to the entire whole, and thus to
each and every part regardless of who wrote it.

  Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or collective
works based on the Library.

  In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do this,
you must alter all the notices that refer to this License, so that they
refer to the ordinary GNU General Public License, version 2, instead of
to this License. (If a newer version than version 2 of the ordinary GNU
General Public License has appeared, then you can specify that version
instead if you wish.) Do not make any other change in these notices.

  Once this change is made in a given copy, it is irreversible for that
copy, so the ordinary GNU General Public License applies to all subsequent
copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or derivative
of it, under Section 2) in object code or executable form under the terms
of Sections 1 and 2 above provided that you accompany it with the complete
corresponding machine-readable source code, which must be distributed
```

```
under the terms of Sections 1 and 2 above on a medium customarily used for
software interchange.

  If distribution of object code is made by offering access to copy from a
designated place, then offering equivalent access to copy the source code
from the same place satisfies the requirement to distribute the source
code, even though third parties are not compelled to copy the source along
with the object code.

  5. A program that contains no derivative of any portion of the Library,
but is designed to work with the Library by being compiled or linked with
it, is called a "work that uses the Library". Such a work, in isolation, is
not a derivative work of the Library, and therefore falls outside the scope
of this License.

  However, linking a "work that uses the Library" with the Library creates
an executable that is a derivative of the Library (because it contains
portions of the Library), rather than a "work that uses the library". The
executable is therefore covered by this License. Section 6 states terms for
distribution of such executables.

  When a "work that uses the Library" uses material from a header file that
is part of the Library, the object code for the work may be a derivative
work of the Library even though the source code is not. Whether this is
true is especially significant if the work can be linked without the
Library, or if the work is itself a library. The threshold for this to be
true is not precisely defined by law.

  If such an object file uses only numerical parameters, data structure
layouts and accessors, and small macros and small inline functions (ten
lines or less in length), then the use of the object file is unrestricted,
regardless of whether it is legally a derivative work. (Executables
containing this object code plus portions of the Library will still fall
under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6. Any executables
containing that work also fall under Section 6, whether or not they are
linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a work
containing portions of the Library, and distribute that work under terms
of your choice, provided that the terms permit modification of the work
for the customer's own use and reverse engineering for debugging such
modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work during
execution displays copyright notices, you must include the copyright notice
for the Library among them, as well as a reference directing the user to
the copy of this License. Also, you must do one of these things:

  a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever changes were used in the
work (which must be distributed under Sections 1 and 2 above); and, if the
work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the
user who changes the contents of definitions files in the Library will
not necessarily be able to recompile the application to use the modified
definitions.)
```

```
  b) Use a suitable shared library mechanism for linking with the Library.
A suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than copying
library functions into the executable, and (2) will operate properly with
a modified version of the library, if the user installs one, as long as the
modified version is interface-compatible with the version that the work was
made with.
  c) Accompany the work with a written offer, valid for at least three
years, to give the same user the materials specified in Subsection 6a,
above, for a charge no more than the cost of performing this distribution.
  d) If distribution of the work is made by offering access to copy from
a designated place, offer equivalent access to copy the above specified
materials from the same place.
  e) Verify that the user has already received a copy of these materials or
that you have already sent this user a copy.
  For an executable, the required form of the "work that uses the Library"
must include any data and utility programs needed for reproducing the
executable from it. However, as a special exception, the materials to be
distributed need not include anything that is normally distributed (in
either source or binary form) with the major components (compiler, kernel,
and so on) of the operating system on which the executable runs, unless
that component itself accompanies the executable.

  It may happen that this requirement contradicts the license restrictions
of other proprietary libraries that do not normally accompany the operating
system. Such a contradiction means you cannot use both them and the Library
together in an executable that you distribute.

  7. You may place library facilities that are a work based on the Library
side-by-side in a single library together with other library facilities not
covered by this License, and distribute such a combined library, provided
that the separate distribution of the work based on the Library and of the
other library facilities is otherwise permitted, and provided that you do
these two things:

  a) Accompany the combined library with a copy of the same work based on
the Library, uncombined with any other library facilities. This must be
distributed under the terms of the Sections above.
  b) Give prominent notice with the combined library of the fact that part
of it is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.
  8. You may not copy, modify, sublicense, link with, or distribute the
Library except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, link with, or distribute the Library
is void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under this
License will not have their licenses terminated so long as such parties
remain in full compliance.

  9. You are not required to accept this License, since you have not signed
it. However, nothing else grants you permission to modify or distribute
the Library or its derivative works. These actions are prohibited by law if
you do not accept this License. Therefore, by modifying or distributing the
Library (or any work based on the Library), you indicate your acceptance
of this License to do so, and all its terms and conditions for copying,
distributing or modifying the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the original
licensor to copy, distribute, link with or modify the Library subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties with this License.
```

```
  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and any
other pertinent obligations, then as a consequence you may not distribute
the Library at all. For example, if a patent license would not permit
royalty-free redistribution of the Library by all those who receive copies
directly or indirectly through you, then the only way you could satisfy
both it and this License would be to refrain entirely from distribution of
the Library.

  If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

  It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any such
claims; this section has the sole purpose of protecting the integrity
of the free software distribution system which is implemented by public
license practices. Many people have made generous contributions to the wide
range of software distributed through that system in reliance on consistent
application of that system; it is up to the author/donor to decide if he
or she is willing to distribute software through any other system and a
licensee cannot impose that choice.

  This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new versions
of the Lesser General Public License from time to time. Such new versions
will be similar in spirit to the present version, but may differ in detail
to address new problems or concerns.

  Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Library does not specify a license version
number, you may choose any version ever published by the Free Software
Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these, write
to the author to ask for permission. For software which is copyrighted by
the Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the two
goals of preserving the free status of all derivatives of our free software
and of promoting the sharing and reuse of software generally.

  NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
```

```
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

   16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS
   How to Apply These Terms to Your New Libraries
   If you develop a new library, and you want it to be of the greatest
 possible use to the public, we recommend making it free software that
 everyone can redistribute and change. You can do so by permitting
 redistribution under these terms (or, alternatively, under the terms of the
 ordinary General Public License).

   To apply these terms, attach the following notices to the library. It is
 safest to attach them to the start of each source file to most effectively
 convey the exclusion of warranty; and each file should have at least the
 "copyright" line and a pointer to where the full notice is found.

   one line to give the library's name and an idea of what it does.
   Copyright (C) year  name of author

   This library is free software; you can redistribute it and/or
   modify it under the terms of the GNU Lesser General Public
   License as published by the Free Software Foundation; either
   version 2.1 of the License, or (at your option) any later version.

   This library is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
   Lesser General Public License for more details.

   You should have received a copy of the GNU Lesser General Public
   License along with this library; if not, write to the Free Software
   Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301
  USA
   Also add information on how to contact you by electronic and paper mail.

   You should also get your employer (if you work as a programmer) or
 your school, if any, to sign a "copyright disclaimer" for the library, if
 necessary. Here is a sample; alter the names:

   Yoyodyne, Inc., hereby disclaims all copyright interest in
   the library `Frob' (a library for tweaking knobs) written
   by James Random Hacker.

   signature of Ty Coon, 1 April 1990
   Ty Coon, President of Vice
   That's all there is to it!

NOTICE

  Javassist, a Java-bytecode translator toolkit.
```

```
  Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

  The contents of this file are subject to the Mozilla Public License
 Version
  1.1 (the "License"); you may not use this file except in compliance with
  the License.  Alternatively, the contents of this file may be used under
  the terms of the GNU Lesser General Public License Version 2.1 or later,
  or the Apache License Version 2.0.

  Software distributed under the License is distributed on an "AS IS" basis,
  WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
  for the specific language governing rights and limitations under the
  License.
-------------------------------------------------------------------------------------------

LICENSE

jakarta.activation:jakarta.activation-api

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NOTICE

Notices for Eclipse Project for JAF
This content is produced and maintained by the Eclipse Project for JAF
 project.

Project home: https://projects.eclipse.org/projects/ee4j.jaf
Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Distribution License v. 1.0, which is available at
 http://www.eclipse.org/org/documents/edl-v10.php.
```

```
SPDX-License-Identifier: BSD-3-Clause

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jaf
Third-party Content
This project leverages the following third party content.

JUnit (4.12)

License: Eclipse Public License
-----------------------------------------------------------------------------------------

LICENSE

jakarta.annotation:jakarta.annotation-api : Eclipse Public License - v 2.0
 text as above

NOTICE

Notices for Jakarta Annotations
This content is produced and maintained by the Jakarta Annotations project.

Project home: https://projects.eclipse.org/projects/ee4j.ca
Trademarks
Jakarta Annotations is a trademark of the Eclipse Foundation.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/common-annotations-api
Third-party Content
Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.
-----------------------------------------------------------------------------------------

LICENSE

jakarta.inject:jakarta.inject-api : Apache Software License, Version 2.0
 text as above

NOTICE

Notices for Eclipse Jakarta Dependency Injection
This content is produced and maintained by the Eclipse Jakarta Dependency
 Injection project.
```

```
Project home: https://projects.eclipse.org/projects/cdi.batch
Trademarks
Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Apache License, Version 2.0 which is available at https://
www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api https://github.com/eclipse-
ee4j/injection-spec https://github.com/eclipse-ee4j/injection-tck

Third-party Content
This project leverages the following third party content.

None

Cryptography
None
--------------------------------------------------------------------------------

LICENSE

jakarta.servlet:jakarta.servlet-api : Eclipse Public License v. 2.0 text as
 above

NOTICE

  Copyright (c) 2017, 2018 Oracle and/or its affiliates and others.
  All rights reserved.

  This program and the accompanying materials are made available under the
  terms of the Eclipse Public License v. 2.0, which is available at
  http://www.eclipse.org/legal/epl-2.0.

  This Source Code may also be made available under the following Secondary
  Licenses when the conditions for such availability set forth in the
  Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
  version 2 with the GNU Classpath Exception, which is available at
  https://www.gnu.org/software/classpath/license.html.

  SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
--------------------------------------------------------------------------------

LICENSE

jakarta.validation:jakarta.validation-api : Eclipse Public License v. 2.0
 text as above

NOTICE

  Copyright (c) 1997, 2018 Oracle and/or its affiliates and others.
  All rights reserved.
```

```
  This program and the accompanying materials are made available under the
  terms of the Eclipse Public License v. 2.0, which is available at
  http://www.eclipse.org/legal/epl-2.0.

  This Source Code may also be made available under the following Secondary
  Licenses when the conditions for such availability set forth in the
  Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
  version 2 with the GNU Classpath Exception, which is available at
  https://www.gnu.org/software/classpath/license.html.

  SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
--------------------------------------------------------------------------------

LICENSE

jakarta.ws.rs:jakarta.ws.rs-api : Eclipse Public License - v 2.0

NOTICE

Notices for the Jakarta RESTful Web Services Project
This content is produced and maintained by the Jakarta RESTful Web Services
 project.

Project home: https://projects.eclipse.org/projects/ee4j.jaxrs
Trademarks
Jakarta RESTful Web Services is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jaxrs-api
Third-party Content
This project leverages the following third party content.

javaee-api (7.0)

License: Apache-2.0 AND W3C
JUnit (4.11)

License: Common Public License 1.0
Mockito (2.16.0)

Project: http://site.mockito.org
Source: https://github.com/mockito/mockito/releases/tag/v2.16.0
Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
```

```
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.
-----------------------------------------------------------------------------------------

LICENSE

jakarta.xml.bind:jakarta.xml.bind-api

Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NOTICE

Notices for Jakarta XML Binding
This content is produced and maintained by the Jakarta XML Binding project.

Project home: https://projects.eclipse.org/projects/ee4j.jaxb
Trademarks
Jakarta XML Binding is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Distribution License v. 1.0 which is available at
 http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jaxb-api
```

```
https://github.com/eclipse-ee4j/jaxb-tck
Third-party Content
This project leverages the following third party content.

Apache River (3.0.0)

License: Apache-2.0 AND BSD-3-Clause
ASM 7 (n/a)

License: BSD-3-Clause
Project: https://asm.ow2.io/
Source: https://repository.ow2.org/nexus/#nexus-search;gav~org.ow2.asm~asm-
commons~~~~kw,versionexpand
JTHarness (5.0)

License: (GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)
Project: https://wiki.openjdk.java.net/display/CodeTools/JT+Harness
Source: http://hg.openjdk.java.net/code-tools/jtharness/
normalize.css (3.0.2)

License: MIT
SigTest (n/a)

License: GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.

-------------------------------------------------------------------------------------------

LICENSE

joda-time:joda-time : The Apache Software License, Version 2.0 text as above


NOTICE

= NOTICE file corresponding to section 4d of the Apache License Version 2.0
 =
==============================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).

-------------------------------------------------------------------------------------------

LICENSE

org.hibernate.validator:hibernate-validator, The Apache Software License,
 Version 2.0 text as above

NOTICE

Contributors:
Adam Stawicki
Ahmed Al Hafoudh
Alaa Nassef
Andrey Derevyanko
Andrey Rodionov
Asutosh Pandya
Benson Margulies
```

```
Brent Douglas
Carlos Vara
Carlo de Wolf
Chris Beckey
Christian Ivan
Dag Hovland
Damir Alibegovic
Dario Seidl
Davide D'Alto
Davide Marchignoli
Denis Tiago
Doug Lea
Emmanuel Bernard
Efthymis Sarbanis
Federico
Federico Mancini
Gavin King
George Gastaldi
Gerhard Petracek
Guillaume Husta
Guillaume Smet
Gunnar Morling
Hardy Ferentschik
Henno Vermeulen
Hillmer Chona
Jan-Willem Willebrands
Jason T. Greene
Jesper Preuss
Jiri Bilek
Julien Furgerot
Julien May
Juraci Krohling
Justin Nauman
Kathryn Killebrew
Kazuki Shimizu
Kevin Pollet
Khalid Alqinyah
Lee KyoungIl
Leonardo Loch Zanivan
Lucas Pouzac
Lukas Niemeier
Mark Hobson
Marko Bekhta
Matthias Kurz
Mert C¸alis¸kan
Michal Fotyga
Nicola Ferraro
Nicolas François
Paolo Perrotta
Pete Muir
Rob Dickinson
Sanne Grinovero
Sebastian Bayerl
Shahram Goodarzi
Shane Bryzak
Shelly McGowan
Sjaak Derksen
Steve Ebersole
Strong Liu
Tadhg Pearson
Takashi Aoe
Tomaz Cerar
Tommy Johansen
Victor Rezende dos Santos
```

```
Willi Schönborn
Xavier Sosnovsky
Yanming Zhou
Yoann Rodière
-----------------------------------------------------------------------------------------

LICENSE

org.jboss.logging:jboss-logging : The Apache Software License, Version 2.0
 text as above

NOTICE

  JBoss, Home of Professional Open Source.

  Copyright 2017 Red Hat, Inc.

  Licensed under the Apache License, Version 2.0 (the "License");

      The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-----------------------------------------------------------------------------------------

LICENSE

org.eclipse.jetty:jetty-io : Eclipse Public License - v 1.0
org.eclipse.jetty:jetty-util : Eclipse Public License - v 1.0

This program and the accompanying materials are made available under the
terms of the Eclipse Public License 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0, or the Apache Software License
2.0 which is available at https://www.apache.org/licenses/LICENSE-2.0.

Eclipse Public License - v 1.0

   THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
 PUBLIC
   LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE
 PROGRAM
   CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

   1. DEFINITIONS

   "Contribution" means:

   a) in the case of the initial Contributor, the initial code and
 documentation
      distributed under this Agreement, and
   b) in the case of each subsequent Contributor:
      i) changes to the Program, and
      ii) additions to the Program;

      where such changes and/or additions to the Program originate from and
 are
      distributed by that particular Contributor. A Contribution
 'originates'
      from a Contributor if it was added to the Program by such Contributor
      itself or anyone acting on such Contributor's behalf. Contributions do
 not
```

```
     include additions to the Program which: (i) are separate modules of
     software distributed in conjunction with the Program under their own
     license agreement, and (ii) are not derivative works of the Program.

  "Contributor" means any person or entity that distributes the Program.

  "Licensed Patents" mean patent claims licensable by a Contributor which
are
  necessarily infringed by the use or sale of its Contribution alone or
when
  combined with the Program.

  "Program" means the Contributions distributed in accordance with this
  Agreement.

  "Recipient" means anyone who receives the Program under this Agreement,
  including all Contributors.

  2. GRANT OF RIGHTS
  a) Subject to the terms of this Agreement, each Contributor hereby grants
     Recipient a non-exclusive, worldwide, royalty-free copyright license
to
     reproduce, prepare derivative works of, publicly display, publicly
     perform, distribute and sublicense the Contribution of such
Contributor,
     if any, and such derivative works, in source code and object code
form.
  b) Subject to the terms of this Agreement, each Contributor hereby grants
     Recipient a non-exclusive, worldwide, royalty-free patent license
under
     Licensed Patents to make, use, sell, offer to sell, import and
otherwise
     transfer the Contribution of such Contributor, if any, in source code
and
     object code form. This patent license shall apply to the combination
of
     the Contribution and the Program if, at the time the Contribution is
     added by the Contributor, such addition of the Contribution causes
such
     combination to be covered by the Licensed Patents. The patent license
     shall not apply to any other combinations which include the
Contribution.
     No hardware per se is licensed hereunder.
  c) Recipient understands that although each Contributor grants the
licenses
     to its Contributions set forth herein, no assurances are provided by
any
     Contributor that the Program does not infringe the patent or other
     intellectual property rights of any other entity. Each Contributor
     disclaims any liability to Recipient for claims brought by any other
     entity based on infringement of intellectual property rights or
     otherwise. As a condition to exercising the rights and licenses
granted
     hereunder, each Recipient hereby assumes sole responsibility to secure
     any other intellectual property rights needed, if any. For example, if
a
     third party patent license is required to allow Recipient to
distribute
     the Program, it is Recipient's responsibility to acquire that license
     before distributing the Program.
  d) Each Contributor represents that to its knowledge it has sufficient
     copyright rights in its Contribution, if any, to grant the copyright
     license set forth in this Agreement.
```

```
  3. REQUIREMENTS

  A Contributor may choose to distribute the Program in object code form
under
  its own license agreement, provided that:

  a) it complies with the terms and conditions of this Agreement; and
  b) its license agreement:
        i) effectively disclaims on behalf of all Contributors all
warranties
           and conditions, express and implied, including warranties or
           conditions of title and non-infringement, and implied warranties
or
           conditions of merchantability and fitness for a particular
purpose;
     ii) effectively excludes on behalf of all Contributors all liability
for
           damages, including direct, indirect, special, incidental and
           consequential damages, such as lost profits;
     iii) states that any provisions which differ from this Agreement are
           offered by that Contributor alone and not by any other party;
and
     iv) states that source code for the Program is available from such
           Contributor, and informs licensees how to obtain it in a
reasonable
           manner on or through a medium customarily used for software
exchange.

  When the Program is made available in source code form:

  a) it must be made available under this Agreement; and
  b) a copy of this Agreement must be included with each copy of the
Program.
     Contributors may not remove or alter any copyright notices contained
     within the Program.

  Each Contributor must identify itself as the originator of its
Contribution,
  if
  any, in a manner that reasonably allows subsequent Recipients to identify
the
  originator of the Contribution.

  4. COMMERCIAL DISTRIBUTION

  Commercial distributors of software may accept certain responsibilities
with
  respect to end users, business partners and the like. While this license
is
  intended to facilitate the commercial use of the Program, the Contributor
who
  includes the Program in a commercial product offering should do so in a
manner
  which does not create potential liability for other Contributors.
Therefore,
  if a Contributor includes the Program in a commercial product offering,
such
  Contributor ("Commercial Contributor") hereby agrees to defend and
indemnify
  every other Contributor ("Indemnified Contributor") against any losses,
  damages and costs (collectively "Losses") arising from claims, lawsuits
and
  other legal actions brought by a third party against the Indemnified
```

```
  Contributor to the extent caused by the acts or omissions of such
Commercial
  Contributor in connection with its distribution of the Program in a
commercial
  product offering. The obligations in this section do not apply to any
claims
  or Losses relating to any actual or alleged intellectual property
  infringement. In order to qualify, an Indemnified Contributor must:
  a) promptly notify the Commercial Contributor in writing of such claim,
and
  b) allow the Commercial Contributor to control, and cooperate with the
  Commercial Contributor in, the defense and any related settlement
  negotiations. The Indemnified Contributor may participate in any such
claim at
  its own expense.

  For example, a Contributor might include the Program in a commercial
product
  offering, Product X. That Contributor is then a Commercial Contributor.
If
  that Commercial Contributor then makes performance claims, or offers
  warranties related to Product X, those performance claims and warranties
are
  such Commercial Contributor's responsibility alone. Under this section,
the
  Commercial Contributor would have to defend claims against the other
  Contributors related to those performance claims and warranties, and if a
  court requires any other Contributor to pay any damages as a result, the
  Commercial Contributor must pay those damages.

  5. NO WARRANTY

  EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
ON AN
  "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
EXPRESS OR
  IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE,
  NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
Each
  Recipient is solely responsible for determining the appropriateness of
using
  and distributing the Program and assumes all risks associated with its
  exercise of rights under this Agreement , including but not limited to
the
  risks and costs of program errors, compliance with applicable laws,
damage to
  or loss of data, programs or equipment, and unavailability or
interruption of
  operations.

  6. DISCLAIMER OF LIABILITY

  EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
ANY
  CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
LIMITATION
  LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
  EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY
```

```
  OF SUCH DAMAGES.

  7. GENERAL

  If any provision of this Agreement is invalid or unenforceable under
  applicable law, it shall not affect the validity or enforceability of the
  remainder of the terms of this Agreement, and without further action by
the
  parties hereto, such provision shall be reformed to the minimum extent
  necessary to make such provision valid and enforceable.

  If Recipient institutes patent litigation against any entity (including a
  cross-claim or counterclaim in a lawsuit) alleging that the Program
itself
  (excluding combinations of the Program with other software or hardware)
  infringes such Recipient's patent(s), then such Recipient's rights
granted
  under Section 2(b) shall terminate as of the date such litigation is
filed.

  All Recipient's rights under this Agreement shall terminate if it fails
to
  comply with any of the material terms or conditions of this Agreement and
does
  not cure such failure in a reasonable period of time after becoming aware
of
  such noncompliance. If all Recipient's rights under this Agreement
terminate,
  Recipient agrees to cease use and distribution of the Program as soon as
  reasonably practicable. However, Recipient's obligations under this
Agreement
  and any licenses granted by Recipient relating to the Program shall
continue
  and survive.

  Everyone is permitted to copy and distribute copies of this Agreement,
but in
  order to avoid inconsistency the Agreement is copyrighted and may only be
  modified in the following manner. The Agreement Steward reserves the
right to
  publish new versions (including revisions) of this Agreement from time to
  time. No one other than the Agreement Steward has the right to modify
this
  Agreement. The Eclipse Foundation is the initial Agreement Steward. The
  Eclipse Foundation may assign the responsibility to serve as the
Agreement
  Steward to a suitable separate entity. Each new version of the Agreement
will
  be given a distinguishing version number. The Program (including
  Contributions) may always be distributed subject to the version of the
  Agreement under which it was received. In addition, after a new version
of the
  Agreement is published, Contributor may elect to distribute the Program
  (including its Contributions) under the new version. Except as expressly
  stated in Sections 2(a) and 2(b) above, Recipient receives no rights or
  licenses to the intellectual property of any Contributor under this
Agreement,
  whether expressly, by implication, estoppel or otherwise. All rights in
the
  Program not expressly granted under this Agreement are reserved.

  This Agreement is governed by the laws of the State of New York and the
  intellectual property laws of the United States of America. No party to
this
```

```
  Agreement will bring a legal action under this Agreement more than one
year
  after the cause of action arose. Each party waives its rights to a jury
trial in
  any resulting litigation.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

NOTICE
Notices for Eclipse Jetty
==========================
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v. 1.0
    http://www.eclipse.org/legal/epl-v10.html
    SPDX-License-Identifier: EPL-1.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0.
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
```

```
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

If ALPN is used to negotiate HTTP/2 connections, then the following
distribution may be included in the distribution or downloaded when ALPN
module is selected. These artifacts replace/modify OpenJDK classes.
The modifications are hosted at github and both modified and original
are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

 * java.sun.security.ssl

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
```

```
granted provided that the copyright notice appears in all copies.
-----------------------------------------------------------------------------------------------

LICENSE

org.slf4j:jul-to-slf4j


  Copyright (c) 2004-2011 QOS.ch
  All rights reserved.

  Permission is hereby granted, free  of charge, to any person obtaining
  a  copy  of this  software  and  associated  documentation files  (the
  "Software"), to  deal in  the Software without  restriction, including
  without limitation  the rights to  use, copy, modify,  merge, publish,
  distribute,  sublicense, and/or sell  copies of  the Software,  and to
  permit persons to whom the Software  is furnished to do so, subject to
  the following conditions:

  The  above  copyright  notice  and  this permission  notice  shall  be
  included in all copies or substantial portions of the Software.

  THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
  EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
  MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------------------------------

LICENSE

org.slf4j:slf4j-api

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------------------------

LICENSE

org.slf4j:jcl-over-slf4j : The Apache Software License, Version 2.0 text as
 above
```

```
org.slf4j:log4j-over-slf4j : The Apache Software License, Version 2.0 text
 as above

NOTICE

  Copyright 2001-2004 The Apache Software Foundation.

  Licensed under the Apache License, Version 2.0 (the "License");

   The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

-------------------------------------------------------------------------------

LICENSE

org.checkerframework:checker-qual : The MIT License text as above

NOTICE

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

-------------------------------------------------------------------------------

LICENSE

com.github.ben-manes.caffeine : The Apache Software License, Version 2.0
 text as above

NOTICE

Copyright 2014 Ben Manes. All Rights Reserved.

  Licensed under the Apache License, Version 2.0 (the "License");

      The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.


-------------------------------------------------------------------------------

LICENSE

ch.qos.logback:logback-core : Eclipse Public License - v 1.0 text as above
ch.qos.logback:logback-classic : Eclipse Public License - v 1.0 text as
 above
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): dropwizard-configuration 2.1.6

```
Top Level License for Dropwizard-Configuration

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
```

```
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
```

```
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


------------------------------------------------------------------------------------------
************************************************************
4P DEPENDENCIES

Copyright ©2009-2011 FasterXML, LLC. All rights reserved unless otherwise
 indicated.

LICENSES

com.fasterxml.jackson.core:jackson-annotations : The Apache Software
 License, Version 2.0 text as above
com.fasterxml.jackson.core:jackson-core : The Apache Software License,
 Version 2.0 text as above
com.fasterxml.jackson.core:jackson-databind : The Apache Software License,
 Version 2.0 text as above
com.fasterxml.jackson.datatype:jackson-datatype-guava : The Apache Software
 License, Version 2.0 text as above
com.fasterxml.jackson.datatype:jackson-datatype-jdk8 : The Apache Software
 License, Version 2.0 text as above
com.fasterxml.jackson.datatype:jackson-datatype-joda : The Apache Software
 License, Version 2.0 text as above
com.fasterxml.jackson.datatype:jackson-datatype-jsr310  : The Apache
 Software License, Version 2.0 text as above

NOTICES

com.fasterxml.jackson.core:jackson-core
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.module:jackson-module-blackbird

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
```

```
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------------------------------------------------------

LICENSE

    com.fasterxml.jackson.module:jackson-module-blackbird : The Apache
 Software License, Version 2.0 text as above

NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

------------------------------------------------------------------------------------

LICENSE

    com.fasterxml.jackson.module:jackson-module-parameter-names : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.dataformat:jackson-dataformat-yaml : The Apache
 Software License, Version 2.0 text as above

NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing
```

```
Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

-------------------------------------------------------------------------------

LICENSE

com.fasterxml:classmate : The Apache Software License, Version 2.0 text as
 above

NOTICE

Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

Other developers who have contributed code are:
* Brian Langel

-------------------------------------------------------------------------------

LICENSE

com.github.ben-manes.caffeine : The Apache Software License, Version 2.0
 text as above

NOTICE

Copyright 2014 Ben Manes. All Rights Reserved.

  Licensed under the Apache License, Version 2.0 (the "License");

    The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

-------------------------------------------------------------------------------

LICENSE

com.google.code.findbugs:jsr305 : BSD 3-Clause

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
```

```
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------

LICENSE

com.google.errorprone:error_prone_annotations : The Apache Software License,
 Version 2.0 text as above

NOTICE
# This is the list of Error Prone authors for copyright purposes.
#
# This does not necessarily list everyone who has contributed code, since in
# some cases, their employer may be the copyright holder.  To see the full
 list
```

```
# of contributors, see the revision history in source control.
Google Inc.
Two Sigma Open Source
-----------------------------------------------------------------------------------------

LICENSES

com.google.guava:guava : The Apache Software License, Version 2.0 text as
 above
com.google.guava:failureaccess  : The Apache Software License, Version 2.0
 text as above
com.google.guava:listenablefuture : The Apache Software License, Version 2.0
 text as above

NOTICE

com.google.guava:guava

   Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");

        The Apache Software License, Version 2.0 text as above

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------------------------------------------------------------

LICENSE

com.google.j2objc:j2objc-annotations : The Apache Software License, Version
 2.0 text as above

NOTICE
  Copyright 2012 Google Inc. All Rights Reserved.

  Licensed under the Apache License, Version 2.0 (the "License");

        The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-----------------------------------------------------------------------------------------

LICENSES

io.dropwizard:dropwizard-jackson : The Apache Software License, Version 2.0
 text as above
io.dropwizard:dropwizard-util  : The Apache Software License, Version 2.0
 text as above
io.dropwizard:dropwizard-validation  : The Apache Software License, Version
 2.0 text as above


NOTICE
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team
```

```
This product includes software developed by Coda Hale and Yammer, Inc.

--------------------------------------------------------------------------------------------

LICENSE

jakarta.validation:jakarta.validation-api : The Apache Software License,
 Version 2.0 text as above

NOTICE

Notices for Eclipse Jakarta Bean Validation
This content is produced and maintained by the Eclipse Jakarta Bean
 Validation project.

Project home: https://projects.eclipse.org/projects/ee4j.bean-validation
Trademarks
Jakarta Bean Validation is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Apache License, Version 2.0 which is available at https://
www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: The Apache Software License, Version 2.0 text as
 above

Source Code
The project maintains the following source code repositories:

The specification repository
The API repository
The TCK repository
Third-party Content
This project leverages the following third party content.

Test dependencies:

TestNG - The Apache Software License, Version 2.0 text as above
JCommander - The Apache Software License, Version 2.0 text as above
SnakeYAML - The Apache Software License, Version 2.0 text as above

List of contributors

Red Hat Inc.
Akira Kawauchi
Davide D'Alto
Dhanji R. Prasanna
Emmanuel Bernard
Gavin King
Gerhard Petracek
Guillaume Smet
Gunnar Morling
Hardy Ferentschik
Hendrik Ebbers
Kevin Pollet
Sebastian Thomschke
--------------------------------------------------------------------------------------------
```

```
LICENSE

joda-time:joda-time : The Apache Software License, Version 2.0 text as above


NOTICE

= NOTICE file corresponding to section 4d of the Apache License Version 2.0
 =
==============================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).

-------------------------------------------------------------------------------------------

LICENSE

org.apache.commons:commons-lang3 : The Apache Software License, Version 2.0
 text as above

NOTICE

Apache Commons Lang
Copyright 2001-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
-------------------------------------------------------------------------------------------

LICENSE

org.apache.commons:commons-text : The Apache Software License, Version 2.0
 text as above


NOTICE
Apache Commons Text
Copyright 2014-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

-------------------------------------------------------------------------------------------

LICENSE

org.checkerframework:checker-qual : MIT License

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------

LICENSE

org.yaml:snakeyaml : The Apache Software License, Version 2.0 text as above

NOTICE

  Copyright (c) 2008, SnakeYAML

  Licensed under the Apache License, Version 2.0 (the "License");

    The Apache Software License, Version 2.0 text as above

 Unless required by applicable law or agreed to in writing, software
 distributed under the License
 is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
 or implied. See the License for the specific language governing permissions
 and limitations under
 the License.

--------------------------------------------------------------------------------

LICENSE

org.glassfish:jakarta.el : Eclipse Public License - v 2.0


Eclipse Public License - v 2.0
    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
```

```
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
```

```
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION
```

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of

```
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.
The GNU General Public License (GPL) Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA
```

```
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".
```

```
Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:
```

```
    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
```

```
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
```

```
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
```

```
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.
CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.


NOTICE

Notices for Jakarta Expression Language
This content is produced and maintained by the Jakarta Expression Language
 project.

Project home: https://projects.eclipse.org/projects/ee4j.el
Trademarks
Jakarta Expression Language is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/el-ri
Third-party Content
Cryptography
```

```
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.

-------------------------------------------------------------------------------------------

LICENSE

org.hibernate.validator:hibernate-validator, The Apache Software License,
 Version 2.0 text as above

NOTICE

Contributors:
Adam Stawicki
Ahmed Al Hafoudh
Alaa Nassef
Andrey Derevyanko
Andrey Rodionov
Asutosh Pandya
Benson Margulies
Brent Douglas
Carlos Vara
Carlo de Wolf
Chris Beckey
Christian Ivan
Dag Hovland
Damir Alibegovic
Dario Seidl
Davide D'Alto
Davide Marchignoli
Denis Tiago
Doug Lea
Emmanuel Bernard
Efthymis Sarbanis
Federico
Federico Mancini
Gavin King
George Gastaldi
Gerhard Petracek
Guillaume Husta
Guillaume Smet
Gunnar Morling
Hardy Ferentschik
Henno Vermeulen
Hillmer Chona
Jan-Willem Willebrands
Jason T. Greene
Jesper Preuss
Jiri Bilek
Julien Furgerot
Julien May
Juraci Krohling
Justin Nauman
Kathryn Killebrew
Kazuki Shimizu
Kevin Pollet
Khalid Alqinyah
Lee KyoungIl
Leonardo Loch Zanivan
Lucas Pouzac
```

```
Lukas Niemeier
Mark Hobson
Marko Bekhta
Matthias Kurz
Mert C¸alis¸kan
Michal Fotyga
Nicola Ferraro
Nicolas François
Paolo Perrotta
Pete Muir
Rob Dickinson
Sanne Grinovero
Sebastian Bayerl
Shahram Goodarzi
Shane Bryzak
Shelly McGowan
Sjaak Derksen
Steve Ebersole
Strong Liu
Tadhg Pearson
Takashi Aoe
Tomaz Cerar
Tommy Johansen
Victor Rezende dos Santos
Willi Schönborn
Xavier Sosnovsky
Yanming Zhou
Yoann Rodière
--------------------------------------------------------------------------------------------

LICENSE

org.jboss.logging:jboss-logging : The Apache Software License, Version 2.0
 text as above

NOTICE

  JBoss, Home of Professional Open Source.

  Copyright 2017 Red Hat, Inc.

  Licensed under the Apache License, Version 2.0 (the "License");

    The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
--------------------------------------------------------------------------------------------

LICENSE

org.slf4j:slf4j-api

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
```

```
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): DropWizard-core 2.1.6

```
------------------------------- Top-level license --------------------------

###########################
#### TOP LEVEL LICENSE ####
###########################

io.dropwizard:dropwizard-core

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

---------------------------- Fourth-party information ----------------------

== Dependency: AOP Alliance
== License Type: Public Domain

--------------------------------(separator)---------------------------------
== LICENSES

https://aopalliance.sourceforge.net

"LICENCE: all the source code provided by AOP Alliance is Public Domain."

--------------------------------(separator)---------------------------------
== Dependency: ch.qos.logback:logback-access
== License Type: EPL 1.0; LGPL v.2.1
```

```
== Dependency: ch.qos.logback:logback-classic
== License Type: EPL 1.0; LGPL v.2.1

== Dependency: ch.qos.logback:logback-core
== License Type: EPL 1.0; LGPL v.2.1


== LICENSES

https://logback.qos.ch/license.html

Logback License

As of release 0.9.18, logback source code and binaries are dual-licensed
 under the EPL v1.0 and the LGPL 2.1, or more formally:

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2022, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

     or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.

The EPL/LGPL dual-license serves several purposes. The LGPL license ensures
 continuity in terms of licensing of the logback project. Prior to version
 0.9.18, logback was licensed (exclusively) under the LGPL v2.1. Moreover,
 since the EPL is deemed incompatible by the Free Software Foundation, the
 LGPL will allow various licensees, in particular software distributors who
 may be already bound by the terms of the GPL or the LGPL, to distribute our
 software.

On the other hand, the EPL license will placate organizations which refuse
 certain restrictions imposed by the LGPL.

Please note that logback-classic is intended to be used behind the SLF4J
 API, which is licensed under the MIT license.

If you wish to make a significant contribution to the logback project, you
 are invited to file a Contributor License Agreement. The purpose of this
 agreement is to formalize the terms of your contribution and to protect the
 project in case of litigation.

Upon request, we may exempt open-source projects from LGPL and EPL's
 reciprocity clauses so that the said projects can develop logback
 extensions under the license of their choice. Exemptions are granted on a
 case by case basis.

== Text of license (EPL 1.0)


Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS
```

```
"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and
```

```
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:

a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
```

```
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

```
== Copyright Notices:

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.


--------------------------------(separator)---------------------------------

== Dependency: com.fasterxml.jackson.core:jackson-annotations
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (Apache 2.0)

./LICENSE

Apache 2.0

--------------------------------(separator)---------------------------------


== Dependency: com.fasterxml.jackson.core:jackson-databind
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

== Copyright Notices:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------
```

```
== Dependency: com.fasterxml.jackson.core:jackson-core
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC


== Copyright Notices:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------

== LICENSES

== Text of license (Apache 2.0)

./LICENSE

Apache 2.0

--------------------------------(separator)--------------------------------

== Dependency: com.fasterxml.jackson.dataformat:jackson-dataformat-yaml
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

== Dependency: com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

== Copyright Notices:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
```

```
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (Apache 2.0)

./src/main/resources/META-INF/LICENSE

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

--------------------------------(separator)---------------------------------

== Dependency: com.fasterxml.jackson.datatype:jackson-datatype-guava
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

--------------------------------(separator)---------------------------------
== LICENSES

== Text of license (Apache 2.0)

./src/main/resources/META-INF/LICENSE

This copy of Jackson JSON processor `jackson-datatype-guava` module is
 licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

--------------------------------(separator)---------------------------------

== Dependency: com.fasterxml.jackson.datatype:jackson-datatype-joda
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

== Dependency: com.fasterxml.jackson.datatype:jackson-datatype-jsr310
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

--------------------------------(separator)---------------------------------
== LICENSES

== Text of license (Apache 2.0)
```

```
./src/main/resources/META-INF/LICENSE

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

--------------------------------(separator)---------------------------------

== Dependency: com.fasterxml.jackson.jaxrs:jackson-jaxrs-base
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

--------------------------------(separator)---------------------------------
== LICENSES

== Text of license (Apache 2.0)

./src/main/resources/META-INF/LICENSE

This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

--------------------------------(separator)---------------------------------

== Dependency: com.fasterxml.jackson.datatype:jackson-datatype-jdk8
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

== Dependency: com.fasterxml.jackson.module:jackson-module-parameter-names
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

--------------------------------(separator)---------------------------------
== LICENSES

== Text of license (Apache 2.0)

../LICENSE

Apache 2.0

--------------------------------(separator)---------------------------------

== Dependency: com.fasterxml.jackson.module:jackson-module-blackbird
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

./src/main/resources/META-INF/NOTICE

# Jackson JSON processor
```

```
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

---------------------------------(separator)----------------------------------
== LICENSES

== Text of license (Apache 2.0, BSD 3-Clause)

./src/main/resources/META-INF/LICENSE

This copy of Jackson JSON processor `jackson-module-afterburner` module is
 licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

    http://www.apache.org/licenses/LICENSE-2.0

Additional licensing information exists for following 3rd party library
 dependencies

### ASM

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)---------------------------------
== Dependency: com.fasterxml.jackson.module:jackson-module-jaxb-annotations
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

./src/main/resources/META-INF/NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------
== LICENSES

./src/main/resources/META-INF/LICENSE

This copy of Jackson JSON processor `jackson-module-jaxb-annotations` module
 is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

--------------------------------(separator)---------------------------------
== Dependency: com.fasterxml:classmate
== License Type: Apache 2.0
== Copyright Notices: FasterXML,LLC

./src/main/resources/META-INF/NOTICE

Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)
```

```
Other developers who have contributed code are:

* Brian Langel

--------------------------------(separator)---------------------------------
== LICENSES

== Text of license (Apache 2.0)

./LICENSE

Apache 2.0

./src/main/resources/META-INF/LICENSE

This copy of Java ClassMate library is licensed under Apache (Software)
 License,
version 2.0 ("the License").
See the License for details about distribution rights, and the specific
 rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

--------------------------------(separator)---------------------------------
== Dependency: com.github.ben-manes.caffeine:caffeine
== License Type: Apache 2.0
== Copyright Notices:

./src/javaPoet/resources/license.txt

Copyright $L Ben Manes. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------(separator)---------------------------------
== LICENSES

== Text of license (Apache 2.0)

./LICENSE

Apache 2.0

--------------------------------(separator)---------------------------------
== Dependency: com.google.code.findbugs:jsr305
== License Type: BSD 3-Clause
== Copyright Notices: JSR305 expert group

== Dependency: jcip-annotations
== License Type: BSD 3-Clause
== Copyright Notices: Copyright (c) 2005, Brian Goetz and Tim Peierls
```

```
--------------------------------(separator)----------------------------------
== LICENSES

== Text of license (BSD 3-Clause)

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

== jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

```
--------------------------------(separator)---------------------------------
== Dependency: com.google.errorprone:error_prone_annotations
== License Type: Apache 2.0
== Copyright Notices: Copyright Google

== Dependency: com.google.guava:failureaccess
== License Type: Apache 2.0
== Copyright Notices: Copyright Google

== Dependency: com.google.guava:guava
== License Type: Apache 2.0
== Copyright Notices: Copyright Google

== Dependency: com.google.guava:listenablefuture
== License Type: Apache 2.0
== Copyright Notices: Copyright Google

--------------------------------(separator)---------------------------------
== LICENSES

== Text of license (Apache 2.0)

../COPYING

Apache 2.0

--------------------------------(separator)---------------------------------

== Dependency: com.google.j2objc:j2objc-annotations
== License Type: Apache 2.0
== Copyright Notices: Copyright Google

--------------------------------(separator)---------------------------------
== LICENSES

== Text of license (Apache 2.0)

../LICENSE

Apache 2.0

--------------------------------(separator)---------------------------------

== Dependency: com.helger:profiler
== License Type: Apache 2.0
== Copyright Notices: Papertrail, Inc

--------------------------------(separator)---------------------------------
== LICENSES

== Text of license (Apache 2.0)

 ./LICENSE

Copyright 2015 Papertrail, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
```

```
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------(separator)---------------------------------

== Dependency: io.dropwizard.logback:logback-throttling-appender
== License Type: Apache 2.0
== Copyright Notices: Copyright Coda Hale, Yammer Inc

== Dependency: io.dropwizard.metrics:metrics-annotation
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard.metrics:metrics-core
== License Type: Apache 2.0
== Copyright Notices: Copyright Coda Hale, Yammer Inc

== Dependency: io.dropwizard.metrics:metrics-healthchecks
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard.metrics:metrics-jersey2
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard.metrics:metrics-jetty9
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard.metrics:metrics-jmx
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard.metrics:metrics-json
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard.metrics:metrics-jvm
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard.metrics:metrics-logback
== License Type: Apache 2.0
== Copyright Notices: Copyright Coda Hale, Yammer Inc

== Dependency: io.dropwizard.metrics:metrics-servlets
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (Apache 2.0)

./LICENSE

Apache 2.0

--------------------------------(separator)---------------------------------
== Dependency: io.dropwizard:dropwizard-configuration
== License Type: Apache 2.0
```

```
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard:dropwizard-health
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard:dropwizard-jackson
== License Type: Apache 2.0

== Dependency: io.dropwizard:dropwizard-jersey
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard:dropwizard-jetty
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard:dropwizard-lifecycle
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard:dropwizard-logging
== License Type: Apache 2.0

== Dependency: io.dropwizard:dropwizard-metrics
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard:dropwizard-request-logging
== License Type: Apache 2.0

== Dependency: io.dropwizard:dropwizard-servlets
== License Type: Apache 2.0
== Copyright Notices: Coda Hale, Yammer Inc

== Dependency: io.dropwizard:dropwizard-util
== License Type: Apache 2.0

== Dependency: io.dropwizard:dropwizard-validation
== License Type: Apache 2.0

== Copyright Notices:

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (Apache 2.0)

../LICENSE

Apache 2.0

--------------------------------(separator)---------------------------------

== Dependency: jakarta.activation:jakarta.activation-api
== License Type: BSD 3-Clause
== Copyright Notices: Copyright (c) 1997, 2019 Oracle and/or its affiliates.
 All rights reserved.
```

```
== Copyright Notices:

# Notices for Jakarta Activation

This content is produced and maintained by Jakarta Activation project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaf

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Distribution License v. 1.0,
which is available at http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaf

## Third-party Content

This project leverages the following third party content.

JUnit (4.12)

* License: Eclipse Public License

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (BSD 3-Clause)

../LICENSE.md

    Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

      - Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

      - Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.

      - Neither the name of the Eclipse Foundation, Inc. nor the names of
 its
        contributors may be used to endorse or promote products derived
        from this software without specific prior written permission.
```

```
    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
    IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO,
    THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
    CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)---------------------------------

== Dependency: jakarta.annotation:jakarta.annotation-api
== License Type: EPL 2.0 + GPL v.2 with CPE

== Copyright Notices: Eclipse Foundation
# Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

 * Project home: https://projects.eclipse.org/projects/ee4j.ca

## Trademarks

Jakarta Annotations is a trademark of the Eclipse Foundation.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

 * https://github.com/eclipse-ee4j/common-annotations-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
```

```
permitted.

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (EPL 2.0 + GPL v.2 with CPE)

./LICENSE.md

EPL 2.0 + GPL v.2 with CPE

--------------------------------(separator)---------------------------------

== Dependency: jakarta.inject:jakarta.inject-api
== License Type: Apache 2.0
== Copyright Notices: Copyright Eclipse Foundation

./NOTICE.md

# Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency
 Injection project.

* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

None
```

```
--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (Apache 2.0)

./LICENSE.txt

Apache 2.0

--------------------------------(separator)---------------------------------

== Dependency: jakarta.servlet:jakarta.servlet-api
== License Type: EPL 2.0 + GPL v.2 with CPE
== Copyright Notices: Copyright Eclipse Foundation

../NOTICE.md

# Notices for Eclipse Project for Servlet

This content is produced and maintained by the Eclipse Project for Servlet
project.

* Project home: https://projects.eclipse.org/projects/ee4j.servlet

## Trademarks

Eclipse Project for Servlet is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/servlet-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are
 currently
```

```
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (EPL 2.0 + GPL v.2 with CPE)

 ../LICENSE.md

# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.

    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.

    "Program" means the Contributions Distributed in accordance with this
    Agreement.

    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.

    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.

    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
    contents of the Program, including, for purposes of clarity any new file
    in Source Code form that contains any contents of the Program. Modified
    Works shall not include works that contain only declarations,
    interfaces, types, classes, structures, or files of the Program solely
    in each case in order to link to, bind by name, or subclass the Program
```

```
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
```

```
      the Program with a statement that the Source Code for the Program
      is available under this Agreement, and informs Recipients how to
      obtain it in a reasonable manner on or through a medium customarily
      used for software exchange; and

      b) the Contributor may Distribute the Program under a license
      different than this Agreement, provided that such license:
         i) effectively disclaims on behalf of all other Contributors all
         warranties and conditions, express and implied, including
         warranties or conditions of title and non-infringement, and
         implied warranties or conditions of merchantability and fitness
         for a particular purpose;

         ii) effectively excludes on behalf of all other Contributors all
         liability for damages, including direct, indirect, special,
         incidental and consequential damages, such as lost profits;

         iii) does not attempt to limit or alter the recipients' rights
         in the Source Code under section 3.2; and

         iv) requires any subsequent distribution of the Program by any
         party to be under a license that satisfies the requirements
         of this section 3.

   3.2 When the Program is Distributed as Source Code:

      a) it must be made available under this Agreement, or if the
      Program (i) is combined with other material in a separate file or
      files made available under a Secondary License, and (ii) the initial
      Contributor attached to the Source Code the notice described in
      Exhibit A of this Agreement, then the Program may be made available
      under the terms of such Secondary Licenses, and

      b) a copy of this Agreement must be included with each copy of
      the Program.

   3.3 Contributors may not remove or alter any copyright, patent,
   trademark, attribution notices, disclaimers of warranty, or limitations
   of liability ("notices") contained within the Program from any copy of
   the Program which they Distribute, provided that Contributors may add
   their own appropriate notices.

   4. COMMERCIAL DISTRIBUTION

   Commercial distributors of software may accept certain responsibilities
   with respect to end users, business partners and the like. While this
   license is intended to facilitate the commercial use of the Program,
   the Contributor who includes the Program in a commercial product
   offering should do so in a manner which does not create potential
   liability for other Contributors. Therefore, if a Contributor includes
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the
Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
   Contributor must: a) promptly notify the Commercial Contributor in
   writing of such claim, and b) allow the Commercial Contributor to
control,
```

```
   and cooperate with the Commercial Contributor in, the defense and any
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.

   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance
   claims, or offers warranties related to Product X, those performance
   claims and warranties are such Commercial Contributor's responsibility
   alone. Under this section, the Commercial Contributor would have to
   defend claims against the other Contributors related to those
performance
   claims and warranties, and if a court requires any other Contributor to
   pay any damages as a result, the Commercial Contributor must pay
   those damages.

   5. NO WARRANTY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
   BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
   IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
   TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
   PURPOSE. Each Recipient is solely responsible for determining the
   appropriateness of using and distributing the Program and assumes all
   risks associated with its exercise of rights under this Agreement,
   including but not limited to the risks and costs of program errors,
   compliance with applicable laws, damage to or loss of data, programs
   or equipment, and unavailability or interruption of operations.

   6. DISCLAIMER OF LIABILITY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
   SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
   PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
   CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
   ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
   EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
   POSSIBILITY OF SUCH DAMAGES.

   7. GENERAL

   If any provision of this Agreement is invalid or unenforceable under
   applicable law, it shall not affect the validity or enforceability of
   the remainder of the terms of this Agreement, and without further
   action by the parties hereto, such provision shall be reformed to the
   minimum extent necessary to make such provision valid and enforceable.

   If Recipient institutes patent litigation against any entity
   (including a cross-claim or counterclaim in a lawsuit) alleging that the
   Program itself (excluding combinations of the Program with other
software
   or hardware) infringes such Recipient's patent(s), then such Recipient's
   rights granted under Section 2(b) shall terminate as of the date such
   litigation is filed.

   All Recipient's rights under this Agreement shall terminate if it
   fails to comply with any of the material terms or conditions of this
   Agreement and does not cure such failure in a reasonable period of
   time after becoming aware of such noncompliance. If all Recipient's
   rights under this Agreement terminate, Recipient agrees to cease use
   and distribution of the Program as soon as reasonably practicable.
```

```
    However, Recipient's obligations under this Agreement and any licenses
    granted by Recipient relating to the Program shall continue and survive.

    Everyone is permitted to copy and distribute copies of this Agreement,
    but in order to avoid inconsistency the Agreement is copyrighted and
    may only be modified in the following manner. The Agreement Steward
    reserves the right to publish new versions (including revisions) of
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is
 published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.


--------------------------------(separator)---------------------------------

== Dependency: jakarta.validation:jakarta.validation-api
== License Type: Apache 2.0
== Copyright Notices: Copyright Eclipse Foundation

./NOTICE.md

# Notices for Eclipse Jakarta Bean Validation

This content is produced and maintained by the Eclipse Jakarta Bean
 Validation
project.

* Project home: https://projects.eclipse.org/projects/ee4j.bean-validation

## Trademarks

 Jakarta Bean Validation is a trademark of the Eclipse Foundation.
```

```
## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

 * [The specification repository](https://github.com/eclipse-ee4j/
beanvalidation-spec)
 * [The API repository](https://github.com/eclipse-ee4j/beanvalidation-api)
 * [The TCK repository](https://github.com/eclipse-ee4j/beanvalidation-tck)

## Third-party Content

This project leverages the following third party content.

Test dependencies:

 * [TestNG](https://github.com/cbeust/testng) - Apache License 2.0
 * [JCommander](https://github.com/cbeust/jcommander) - Apache License 2.0
 * [SnakeYAML](https://bitbucket.org/asomov/snakeyaml/src) - Apache License
 2.0

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (Apache 2.0)

./license.txt

Apache 2.0

 ./license/license.header

Jakarta Bean Validation API

License: Apache License, Version 2.0
See the license.txt file in the root directory or <http://www.apache.org/
licenses/LICENSE-2.0>.

--------------------------------(separator)---------------------------------

== Dependency: jakarta.ws.rs:jakarta.ws.rs-api
== License Type: EPL 2.0 + GPL v.2 with CPE
== Copyright Notices:

./NOTICE.md

# Notices for the Jakarta RESTful Web Services Project
```

```
This content is produced and maintained by the **Jakarta RESTful Web
 Services**
project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxrs

## Trademarks

**Jakarta RESTful Web Services** is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

## Third-party Content

This project leverages the following third party content.

javaee-api (7.0)

* License: Apache-2.0 AND W3C

JUnit (4.11)

* License: Common Public License 1.0

Mockito (2.16.0)

* Project: http://site.mockito.org
* Source: https://github.com/mockito/mockito/releases/tag/v2.16.0

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
```

```
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (EPL 2.0 + GPL v.2 with CPE)

./LICENSE.md

EPL 2.0 + GPL v.2 with CPE

--------------------------------(separator)---------------------------------

== Dependency: joda-time:joda-time
== License Type: Apache 2.0
== Copyright Notices: Copyright JodaOrg

./NOTICE.txt

==============================================================================
= NOTICE file corresponding to section 4d of the Apache License Version 2.0
 =
==============================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (Apache 2.0)

./LICENSE.txt

Apache 2.0

--------------------------------(separator)---------------------------------

== Dependency: net.sourceforge.argparse4j:argparse4j
== License Type: MIT
== Copyright Notices: Tatsuhiro Tsujikawa

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (MIT)

../LICENSE.txt

/*
 * Copyright (C) 2011-2021 The contributors: https://github.com/argparse4j/
argparse4j/graphs/contributors
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
```

```
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */

--------------------------------(separator)---------------------------------

== Dependency: org.apache.commons:commons-text
== License Type: Apache 2.0


./NOTICE.txt

Apache Commons Text
Copyright 2014-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

--------------------------------(separator)---------------------------------
== Dependency: org.apache.commons:commons-lang3
== License Type: Apache 2.0
== Copyright Notices:

Apache Commons Lang
Copyright 2001-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

== LICENSES

Apache 2.0
== Text of license (Apache 2.0)


--------------------------------(separator)---------------------------------

== Dependency: org.checkerframework:checker-qual
== License Type: MIT
== Copyright Notices: Copyright 2004-present by the Checker Framework
 developers

== LICENSES

== Text of license (MIT)

./LICENSE.txt

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------(separator)---------------------------------

== Dependency: org.eclipse.jetty.toolchain.setuid:jetty-setuid-java
== License Type:
== Copyright Notices:

./SetUID.java

//
//  ========================================================================
//  Copyright (c) 1995-2012 Mort Bay Consulting Pty. Ltd.
//  ------------------------------------------------------------------------
//  All rights reserved. This program and the accompanying materials
//  are made available under the terms of the Eclipse Public License v1.0
//  and Apache License v2.0 which accompanies this distribution.
//
//      The Eclipse Public License is available at
//      http://www.eclipse.org/legal/epl-v10.html
//
//      The Apache License v2.0 is available at
//      http://www.opensource.org/licenses/apache2.0.php
//
//  You may elect to redistribute this code under either of these licenses.
//  ========================================================================
//

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (EPL 1.0)

EPL 1.0

== Text of license (Apache 2.0)

Apache 2.0

--------------------------------(separator)---------------------------------

== Dependency: org.eclipse.jetty:jetty-continuation
== License Type: Apache 2.0, EPL 1.0

== Dependency: org.eclipse.jetty:jetty-http
```

```
== License Type: Apache 2.0, EPL 1.0

== Dependency: org.eclipse.jetty:jetty-io
== License Type: Apache 2.0, EPL 1.0

== Dependency: org.eclipse.jetty:jetty-security
== License Type: Apache 2.0, EPL 1.0

== Dependency: org.eclipse.jetty:jetty-server
== License Type: Apache 2.0, EPL 1.0

== Dependency: org.eclipse.jetty:jetty-servlet
== License Type: Apache 2.0, EPL 1.0

== Dependency: org.eclipse.jetty:jetty-servlets
== License Type: Apache 2.0, EPL 1.0


== Dependency: org.eclipse.jetty:jetty-util-ajax
== License Type: Apache 2.0, EPL 1.0

== Dependency: org.eclipse.jetty:jetty-util
== License Type: Apache 2.0, EPL 1.0

== Copyright Notices: Copyright Eclipse Foundation

../NOTICE.txt

Notices for Eclipse Jetty
=========================
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v. 1.0
    http://www.eclipse.org/legal/epl-v10.html
    SPDX-License-Identifier: EPL-1.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0.
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
```

```
 * org.eclipse.jetty.orbit:javax.mail.glassfish


If ALPN is used to negotiate HTTP/2 connections, then the following
distribution may be included in the distribution or downloaded when ALPN
module is selected. These artifacts replace/modify OpenJDK classes.
The modifications are hosted at github and both modified and original
are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

 * java.sun.security.ssl

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.

 * org.eclipse.jetty.toolchain:jetty-schemas


Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
```

```
granted provided that the copyright notice appears in all copies.


--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (EPL 1.0 + Apache 2.0)

../LICENSE

This program and the accompanying materials are made available under the
terms of the Eclipse Public License 1.0 which is available at
https://www.eclipse.org/org/documents/epl-1.0/EPL-1.0.txt
or the Apache Software License 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
```

```
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
```

```
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
```

```
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

--------------------------------(separator)---------------------------------

== Dependency: org.glassfish.hk2.external:aopalliance-repackaged
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.hk2:hk2-api
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.hk2:hk2-utils
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.hk2:osgi-resource-locator
== License Type: EPL 2.0 + GPL v.2 with CPE

== Copyright Notices:

../NOTICE.md

# Notices for Eclipse GlassFish

This content is produced and maintained by the Eclipse GlassFish project.

* Project home: https://projects.eclipse.org/projects/ee4j.glassfish

## Trademarks

Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
```

```
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (EPL 2.0 + GPL v.2 with CPE)

../LICENSE.md

EPL 2.0 + GPL v.2 with CPE

--------------------------------(separator)---------------------------------

== Dependency: org.glassfish.jersey.containers:jersey-container-servlet-core
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.jersey.containers:jersey-container-servlet
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.jersey.core:jersey-client
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.jersey.core:jersey-common
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.jersey.core:jersey-server
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.jersey.ext:jersey-bean-validation
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.jersey.ext:jersey-metainf-services
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.jersey.inject:jersey-hk2
== License Type: EPL 2.0 + GPL v.2 with CPE

== Dependency: org.glassfish.hk2:hk2-locator
== License Type: EPL 2.0 + GPL v.2 with CPE
```

```
== Copyright Notices:

../NOTICE.md

# Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

*  Project home: https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

Angular JS, v1.6.6
* License MIT (http://www.opensource.org/licenses/mit-license.php)
* Project: http://angularjs.org
* Coyright: (c) 2010-2017 Google, Inc.

aopalliance Version 1
* License: all the source code provided by AOP Alliance is Public Domain.
* Project: http://aopalliance.sourceforge.net
* Copyright: Material in the public domain is not protected by copyright

Bean Validation API 2.0.2
* License: Apache License, 2.0
* Project: http://beanvalidation.org/1.1/
* Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
* by the @authors tag.

Hibernate Validator CDI, 6.1.2.Final
* License: Apache License, 2.0
* Project: https://beanvalidation.org/
* Repackaged in org.glassfish.jersey.server.validation.internal.hibernate
```

```
Bootstrap v3.3.7
* License: MIT license (https://github.com/twbs/bootstrap/blob/master/
LICENSE)
* Project: http://getbootstrap.com
* Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0
* License: Apache License, 2.0
* Copyright (C) 2009 The Guava Authors

javax.inject Version: 1
* License: Apache License, 2.0
* Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.25.0-GA
* License: Apache License, 2.0
* Project: http://www.javassist.org/
* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.13.3
* License: Apache License, 2.0
* Project: https://github.com/FasterXML/jackson-jaxrs-providers
* Copyright: (c) 2009-2022 FasterXML, LLC. All rights reserved unless
 otherwise indicated.

jQuery v1.12.4
* License: jquery.org/license
* Project: jquery.org
* Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3
* License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php &
 http://www.gnu.org/licenses/gpl.html)
* Project:  http://www.pasella.it/projects/jQuery/barcode
* Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266
* License: CC0
* No copyright
* Written by Doug Lea with assistance from members of JCP JSR-166
 Expert Group and released to the public domain, as explained at http://
creativecommons.org/publicdomain/zero/1.0/

KineticJS, v4.7.1
* License: MIT license (http://www.opensource.org/licenses/mit-license.php)
* Project: http://www.kineticjs.com, https://github.com/ericdrowell/
KineticJS
* Copyright: Eric Rowell

org.objectweb.asm Version 9.3
* License: Modified BSD (https://asm.ow2.io/license.html)
* Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0
* License: Apache License, 2.0
* Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.

org.glassfish.jersey.server.internal.monitoring.core
* License: Apache License, 2.0
* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
* Copyright 2010-2013 Coda Hale and Yammer, Inc.

W3.org documents
* License: W3C License
```

```
* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium,
 (Massachusetts Institute of Technology, Institut National de Recherche
 en Informatique et en Automatique, Keio University). All Rights Reserved.
 http://www.w3.org/Consortium/Legal/

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (EPL 2.0 + GPL v.2 with CPE)

../LICENSE.md

EPL 2.0 + GPL v.2 with CPE

--------------------------------(separator)---------------------------------

== Dependency: org.glassfish:jakarta.el
== License: EPL 2.0 + GPL v.2 with CPE
== Copyright Notices:

./NOTICE.md

# Notices for Jakarta Expression Language

This content is produced and maintained by the Jakarta Expression Language
 project.

* Project home: https://projects.eclipse.org/projects/ee4j.el

## Trademarks

Jakarta Expression Language is a trademark of the Eclipse
Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/el-ri

## Third-party Content
```

```
## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (EPL 2.0 + GPL v.2 with CPE)

./LICENSE.md

EPL 2.0 + GPL v.2 with CPE

--------------------------------(separator)---------------------------------

== Dependency: org.hibernate.validator:hibernate-validator
== License Type: Apache 2.0
== Copyright Notices: Copyright Hibernate.org

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (Apache 2.0)

./license.txt

Apache 2.0

--------------------------------(separator)---------------------------------

== Dependency: org.javassist:javassist
== License Type: Apache 2.0; LGPL v.2.1; MPL 1.1
== Copyright Notices: Shigeru Chiba

./README.md

[![Java CI with Maven](https://github.com/jboss-javassist/javassist/
actions/workflows/maven.yml/badge.svg)](https://github.com/jboss-javassist/
javassist/actions/workflows/maven.yml)

Java bytecode engineering toolkit
### [Javassist version 3](http://www.javassist.org)

Copyright (C) 1999-2022 by Shigeru Chiba, All rights reserved.

Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
simple. It is a class library for editing bytecodes in Java; it enables Java
programs to define a new class at runtime and to modify a class file when
 the
JVM loads it. Unlike other similar bytecode editors, Javassist provides two
levels of API: source level and bytecode level. If the users use the source-
```

```
level API, they can edit a class file without knowledge of the
 specifications
of the Java bytecode. The whole API is designed with only the vocabulary of
the Java language. You can even specify inserted bytecode in the form of
source text; Javassist compiles it on the fly. On the other hand, the
bytecode-level API allows the users to directly edit a class file as other
editors.

This software is distributed under the Mozilla Public License Version 1.1,
the GNU Lesser General Public License Version 2.1 or later, or
the Apache License Version 2.0.

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (MPL 1.1)

./license.txt

MOZILLA PUBLIC LICENSE
Version 1.1

1. Definitions.

      1.0.1. "Commercial Use" means distribution or otherwise making the
      Covered Code available to a third party.

      1.1. ''Contributor'' means each entity that creates or contributes to
      the creation of Modifications.

      1.2. ''Contributor Version'' means the combination of the Original
      Code, prior Modifications used by a Contributor, and the
      Modifications made by that particular Contributor.

      1.3. ''Covered Code'' means the Original Code or Modifications or the
      combination of the Original Code and Modifications, in each case
      including portions thereof.

      1.4. ''Electronic Distribution Mechanism'' means a mechanism
      generally accepted in the software development community for the
      electronic transfer of data.

      1.5. ''Executable'' means Covered Code in any form other than Source
      Code.

      1.6. ''Initial Developer'' means the individual or entity identified
      as the Initial Developer in the Source Code notice required by
      Exhibit A.

      1.7. ''Larger Work'' means a work which combines Covered Code or
      portions thereof with code not governed by the terms of this License.

      1.8. ''License'' means this document.

      1.8.1. "Licensable" means having the right to grant, to the maximum
      extent possible, whether at the time of the initial grant or
      subsequently acquired, any and all of the rights conveyed herein.

      1.9. ''Modifications'' means any addition to or deletion from the
      substance or structure of either the Original Code or any previous
      Modifications. When Covered Code is released as a series of files, a
      Modification is:
```

```
            A. Any addition to or deletion from the contents of a file
            containing Original Code or previous Modifications.

            B. Any new file that contains any part of the Original Code or
            previous Modifications.


      1.10. ''Original Code'' means Source Code of computer software code
      which is described in the Source Code notice required by Exhibit A
      as Original Code, and which, at the time of its release under this
      License is not already Covered Code governed by this License.

      1.10.1. "Patent Claims" means any patent claim(s), now owned or
      hereafter acquired, including without limitation,  method, process,
      and apparatus claims, in any patent Licensable by grantor.

      1.11. ''Source Code'' means the preferred form of the Covered Code
      for making modifications to it, including all modules it contains,
      plus any associated interface definition files, scripts used to
      control compilation and installation of an Executable, or source code
      differential comparisons against either the Original Code or another
      well known, available Covered Code of the Contributor's choice. The
      Source Code can be in a compressed or archival form, provided the
      appropriate decompression or de-archiving software is widely
      available for no charge.

      1.12. "You'' (or "Your")  means an individual or a legal entity
      exercising rights under, and complying with all of the terms of, this
      License or a future version of this License issued under Section 6.1.
      For legal entities, "You'' includes any entity which controls, is
      controlled by, or is under common control with You. For purposes of
      this definition, "control'' means (a) the power, direct or indirect,
      to cause the direction or management of such entity, whether by
      contract or otherwise, or (b) ownership of more than fifty percent
      (50%) of the outstanding shares or beneficial ownership of such
      entity.

2. Source Code License.
      2.1. The Initial Developer Grant.
      The Initial Developer hereby grants You a world-wide, royalty-free,
      non-exclusive license, subject to third party intellectual property
      claims:
            (a)  under intellectual property rights (other than patent or
            trademark) Licensable by Initial Developer to use, reproduce,
            modify, display, perform, sublicense and distribute the
            Original Code (or portions thereof) with or without
            Modifications, and/or as part of a Larger Work; and

            (b) under Patents Claims infringed by the making, using or
            selling of Original Code, to make, have made, use, practice,
            sell, and offer for sale, and/or otherwise dispose of the
            Original Code (or portions thereof).

            (c) the licenses granted in this Section 2.1(a) and (b) are
            effective on the date Initial Developer first distributes
            Original Code under the terms of this License.

            (d) Notwithstanding Section 2.1(b) above, no patent license is
            granted: 1) for code that You delete from the Original Code; 2)
            separate from the Original Code;  or 3) for infringements
            caused by: i) the modification of the Original Code or ii) the
            combination of the Original Code with other software or
            devices.
```

```
      2.2. Contributor Grant.
      Subject to third party intellectual property claims, each Contributor
      hereby grants You a world-wide, royalty-free, non-exclusive license

            (a)  under intellectual property rights (other than patent or
            trademark) Licensable by Contributor, to use, reproduce,
            modify, display, perform, sublicense and distribute the
            Modifications created by such Contributor (or portions thereof)
            either on an unmodified basis, with other Modifications, as
            Covered Code and/or as part of a Larger Work; and

            (b) under Patent Claims infringed by the making, using, or
            selling of  Modifications made by that Contributor either alone
            and/or in combination with its Contributor Version (or portions
            of such combination), to make, use, sell, offer for sale, have
            made, and/or otherwise dispose of: 1) Modifications made by
            that Contributor (or portions thereof); and 2) the combination
            of  Modifications made by that Contributor with its Contributor
            Version (or portions of such combination).

            (c) the licenses granted in Sections 2.2(a) and 2.2(b) are
            effective on the date Contributor first makes Commercial Use of
            the Covered Code.

            (d)    Notwithstanding Section 2.2(b) above, no patent license
            is granted: 1) for any code that Contributor has deleted from
            the Contributor Version; 2)  separate from the Contributor
            Version;  3)  for infringements caused by: i) third party
            modifications of Contributor Version or ii)  the combination of
            Modifications made by that Contributor with other software
            (except as part of the Contributor Version) or other devices;
            or 4) under Patent Claims infringed by Covered Code in the
            absence of Modifications made by that Contributor.


3. Distribution Obligations.

      3.1. Application of License.
      The Modifications which You create or to which You contribute are
      governed by the terms of this License, including without limitation
      Section 2.2. The Source Code version of Covered Code may be
      distributed only under the terms of this License or a future version
      of this License released under Section 6.1, and You must include a
      copy of this License with every copy of the Source Code You
      distribute. You may not offer or impose any terms on any Source Code
      version that alters or restricts the applicable version of this
      License or the recipients' rights hereunder. However, You may include
      an additional document offering the additional rights described in
      Section 3.5.

      3.2. Availability of Source Code.
      Any Modification which You create or to which You contribute must be
      made available in Source Code form under the terms of this License
      either on the same media as an Executable version or via an accepted
      Electronic Distribution Mechanism to anyone to whom you made an
      Executable version available; and if made available via Electronic
      Distribution Mechanism, must remain available for at least twelve
      (12) months after the date it initially became available, or at least
      six (6) months after a subsequent version of that particular
      Modification has been made available to such recipients. You are
      responsible for ensuring that the Source Code version remains
      available even if the Electronic Distribution Mechanism is maintained
      by a third party.
```

```
3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a
file documenting the changes You made to create that Covered Code and
the date of any change. You must include a prominent statement that
the Modification is derived, directly or indirectly, from Original
Code provided by the Initial Developer and including the name of the
Initial Developer in (a) the Source Code, and (b) in any notice in an
Executable version or related documentation in which You describe the
origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

      (a) Third Party Claims.
      If Contributor has knowledge that a license under a third
      party's intellectual property rights is required to exercise
      the rights granted by such Contributor under Sections 2.1 or
      2.2, Contributor must include a text file with the Source Code
      distribution titled "LEGAL'' which describes the claim and the
      party making the claim in sufficient detail that a recipient
      will know whom to contact. If Contributor obtains such
      knowledge after the Modification is made available as described
      in Section 3.2, Contributor shall promptly modify the LEGAL
      file in all copies Contributor makes available thereafter and
      shall take other steps (such as notifying appropriate mailing
      lists or newsgroups) reasonably calculated to inform those who
      received the Covered Code that new knowledge has been obtained.

      (b) Contributor APIs.
      If Contributor's Modifications include an application
      programming interface and Contributor has knowledge of patent
      licenses which are reasonably necessary to implement that API,
      Contributor must also include this information in the LEGAL
      file.


          (c)    Representations.
      Contributor represents that, except as disclosed pursuant to
      Section 3.4(a) above, Contributor believes that Contributor's
      Modifications are Contributor's original creation(s) and/or
      Contributor has sufficient rights to grant the rights conveyed
      by this License.


3.5. Required Notices.
You must duplicate the notice in Exhibit A in each file of the Source
Code.  If it is not possible to put such notice in a particular
Source Code file due to its structure, then You must include such
notice in a location (such as a relevant directory) where a user
would be likely to look for such a notice.  If You created one or
more Modification(s) You may add your name as a Contributor to the
notice described in Exhibit A.  You must also duplicate this License
in any documentation for the Source Code where You describe
recipients' rights or ownership rights relating to Covered Code.  You
may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of
Covered Code. However, You may do so only on Your own behalf, and not
on behalf of the Initial Developer or any Contributor. You must make
it absolutely clear than any such warranty, support, indemnity or
liability obligation is offered by You alone, and You hereby agree to
indemnify the Initial Developer and every Contributor for any
liability incurred by the Initial Developer or such Contributor as a
result of warranty, support, indemnity or liability terms You offer.
```

```
      3.6. Distribution of Executable Versions.
      You may distribute Covered Code in Executable form only if the
      requirements of Section 3.1-3.5 have been met for that Covered Code,
      and if You include a notice stating that the Source Code version of
      the Covered Code is available under the terms of this License,
      including a description of how and where You have fulfilled the
      obligations of Section 3.2. The notice must be conspicuously included
      in any notice in an Executable version, related documentation or
      collateral in which You describe recipients' rights relating to the
      Covered Code. You may distribute the Executable version of Covered
      Code or ownership rights under a license of Your choice, which may
      contain terms different from this License, provided that You are in
      compliance with the terms of this License and that the license for
      the Executable version does not attempt to limit or alter the
      recipient's rights in the Source Code version from the rights set
      forth in this License. If You distribute the Executable version under
      a different license You must make it absolutely clear that any terms
      which differ from this License are offered by You alone, not by the
      Initial Developer or any Contributor. You hereby agree to indemnify
      the Initial Developer and every Contributor for any liability
      incurred by the Initial Developer or such Contributor as a result of
      any such terms You offer.

      3.7. Larger Works.
      You may create a Larger Work by combining Covered Code with other
      code not governed by the terms of this License and distribute the
      Larger Work as a single product. In such a case, You must make sure
      the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.
      If it is impossible for You to comply with any of the terms of this
      License with respect to some or all of the Covered Code due to
      statute, judicial order, or regulation then You must: (a) comply with
      the terms of this License to the maximum extent possible; and (b)
      describe the limitations and the code they affect. Such description
      must be included in the LEGAL file described in Section 3.4 and must
      be included with all distributions of the Source Code. Except to the
      extent prohibited by statute or regulation, such description must be
      sufficiently detailed for a recipient of ordinary skill to be able to
      understand it.
5. Application of this License.
      This License applies to code to which the Initial Developer has
      attached the notice in Exhibit A and to related Covered Code.
6. Versions of the License.
      6.1. New Versions.
      Netscape Communications Corporation (''Netscape'') may publish
      revised and/or new versions of the License from time to time. Each
      version will be given a distinguishing version number.

      6.2. Effect of New Versions.
      Once Covered Code has been published under a particular version of
      the License, You may always continue to use it under the terms of
      that version. You may also choose to use such Covered Code under the
      terms of any subsequent version of the License published by Netscape.
      No one other than Netscape has the right to modify the terms
      applicable to Covered Code created under this License.

      6.3. Derivative Works.
      If You create or use a modified version of this License (which you
      may only do in order to apply it to code which is not already Covered
      Code governed by this License), You must (a) rename Your license so
      that the phrases ''Mozilla'', ''MOZILLAPL'', ''MOZPL'', ''Netscape'',
      "MPL", ''NPL'' or any confusingly similar phrase do not appear in
      your license (except to note that your license differs from this
```

```
      License) and (b) otherwise make it clear that Your version of the
      license contains terms which differ from the Mozilla Public License
      and Netscape Public License. (Filling in the name of the Initial
      Developer, Original Code or Contributor in the notice described in
      Exhibit A shall not of themselves be deemed to be modifications of
      this License.)

7. DISCLAIMER OF WARRANTY.
      COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS'' BASIS,
      WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
      WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF
      DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
      NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
      THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE
      IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER
      CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR
      CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART
      OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER
      EXCEPT UNDER THIS DISCLAIMER.
8. TERMINATION.
      8.1.  This License and the rights granted hereunder will terminate
      automatically if You fail to comply with terms herein and fail to
      cure such breach within 30 days of becoming aware of the breach. All
      sublicenses to the Covered Code which are properly granted shall
      survive any termination of this License. Provisions which, by their
      nature, must remain in effect beyond the termination of this License
      shall survive.

      8.2.  If You initiate litigation by asserting a patent infringement
      claim (excluding declatory judgment actions) against Initial
      Developer or a Contributor (the Initial Developer or Contributor
      against whom You file such action is referred to as "Participant")
      alleging that:

      (a)  such Participant's Contributor Version directly or indirectly
      infringes any patent, then any and all rights granted by such
      Participant to You under Sections 2.1 and/or 2.2 of this License
      shall, upon 60 days notice from Participant terminate prospectively,
      unless if within 60 days after receipt of notice You either: (i)
      agree in writing to pay Participant a mutually agreeable reasonable
      royalty for Your past and future use of Modifications made by such
      Participant, or (ii) withdraw Your litigation claim with respect to
      the Contributor Version against such Participant.  If within 60 days
      of notice, a reasonable royalty and payment arrangement are not
      mutually agreed upon in writing by the parties or the litigation
      claim is not withdrawn, the rights granted by Participant to You
      under Sections 2.1 and/or 2.2 automatically terminate at the
      expiration of the 60 day notice period specified above.

      (b)  any software, hardware, or device, other than such Participant's
      Contributor Version, directly or indirectly infringes any patent,
      then any rights granted to You by such Participant under Sections
      2.1(b) and 2.2(b) are revoked effective as of the date You first
      made, used, sold, distributed, or had made, Modifications made by
      that Participant.

      8.3.  If You assert a patent infringement claim against Participant
      alleging that such Participant's Contributor Version directly or
      indirectly infringes any patent where such claim is resolved (such as
      by license or settlement) prior to the initiation of patent
      infringement litigation, then the reasonable value of the licenses
      granted by such Participant under Sections 2.1 or 2.2 shall be taken
      into account in determining the amount or value of any payment or
      license.
```

```
      8.4.  In the event of termination under Sections 8.1 or 8.2 above,
      all end user license agreements (excluding distributors and
      resellers) which have been validly granted by You or any distributor
      hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.
      UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
      (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
      INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
      COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO
      ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL
      DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR
      LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR
      ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY
      SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS
      LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR
      PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT
      APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT
      ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL
      DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.
10. U.S. GOVERNMENT END USERS.
      The Covered Code is a ''commercial item,'' as that term is defined in
      48 C.F.R. 2.101 (Oct. 1995), consisting of ''commercial computer
      software'' and ''commercial computer software documentation,'' as
      such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with
      48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June
      1995), all U.S. Government End Users acquire Covered Code with only
      those rights set forth herein.
11. MISCELLANEOUS.
      This License represents the complete agreement concerning subject
      matter hereof. If any provision of this License is held to be
      unenforceable, such provision shall be reformed only to the extent
      necessary to make it enforceable. This License shall be governed by
      California law provisions (except to the extent applicable law, if
      any, provides otherwise), excluding its conflict-of-law provisions.
      With respect to disputes in which at least one party is a citizen of,
      or an entity chartered or registered to do business in the United
      States of America, any litigation relating to this License shall be
      subject to the jurisdiction of the Federal Courts of the Northern
      District of California, with venue lying in Santa Clara County,
      California, with the losing party responsible for costs, including
      without limitation, court costs and reasonable attorneys' fees and
      expenses. The application of the United Nations Convention on
      Contracts for the International Sale of Goods is expressly excluded.
      Any law or regulation which provides that the language of a contract
      shall be construed against the drafter shall not apply to this
      License.
12. RESPONSIBILITY FOR CLAIMS.
      As between Initial Developer and the Contributors, each party is
      responsible for claims and damages arising, directly or indirectly,
      out of its utilization of rights under this License and You agree to
      work with Initial Developer and Contributors to distribute such
      responsibility on an equitable basis. Nothing herein is intended or
      shall be deemed to constitute any admission of liability.
13. MULTIPLE-LICENSED CODE.
      Initial Developer may designate portions of the Covered Code as
      "Multiple-Licensed".  "Multiple-Licensed" means that the Initial
      Developer permits you to utilize portions of the Covered Code under
      Your choice of the MPL or the alternative licenses, if any, specified
      by the Initial Developer in the file described in Exhibit A.


EXHIBIT A -Mozilla Public License.
```

```
      The contents of this file are subject to the Mozilla Public License
      Version 1.1 (the "License"); you may not use this file except in
      compliance with the License. You may obtain a copy of the License at
      http://www.mozilla.org/MPL/

      Software distributed under the License is distributed on an "AS IS"
      basis, WITHOUT WARRANTY OF
      ANY KIND, either express or implied. See the License for the specific
      language governing rights and
      limitations under the License.

      The Original Code is Javassist.

      The Initial Developer of the Original Code is Shigeru Chiba. Portions
      created by the Initial Developer are
        Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

      Contributor(s): __Bill Burke, Jason T. Greene_______________.

      Alternatively, the contents of this software may be used under the
      terms of the GNU Lesser General Public License Version 2.1 or later
      (the "LGPL"), or the Apache License Version 2.0 (the "AL"), in which
      case the provisions of the LGPL or the AL are applicable instead of
      those above. If you wish to allow use of your version of this
      software only under the terms of either the LGPL or the AL, and not
      to allow others to use your version of this software under the terms
      of the MPL, indicate your decision by deleting the provisions above
      and replace them with the notice and other provisions required by the
      LGPL or the AL. If you do not delete the provisions above, a
      recipient may use your version of this software under the terms of
      any one of the MPL, the LGPL or the AL.

== Text of license (Apache 2.0)

Apache 2.0

== Text of license (LGPL v.2.1)

LGPL v.2.1

--------------------------------(separator)---------------------------------

== Dependency: org.jboss.logging:jboss-logging
== License Type: Apache 2.0
== Copyright Notices: Copyright Red Hat, Inc

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (Apache 2.0)

./src/main/resources/META-INF/LICENSE.txt

Apache 2.0

--------------------------------(separator)---------------------------------

== Dependency: org.slf4j:jul-to-slf4j
== License Type: MIT
== Copyright Notices: Copyright QOS.ch

--------------------------------(separator)---------------------------------
```

```
== LICENSES

== Text of license (MIT)

../LICENSE.txt

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------(separator)---------------------------------

== Dependency: org.slf4j:slf4j-api
== License Type: MIT
== Copyright Notices: Copyright QOS.ch


== Dependency: oorg.slf4j:log4j-over-slf4j
== License Type: MIT
== Copyright Notices: Copyright QOS.ch


== Dependency: rg.slf4j:jcl-over-slf4j
== License Type: MIT
== Copyright Notices: Copyright QOS.ch

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (MIT)

./LICENSE

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:
```

```
The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------(separator)---------------------------------

== Dependency: org.yaml:snakeyaml
== License Type: Apache 2.0
== Copyright Notices: SnakeYAML.org

--------------------------------(separator)---------------------------------

== LICENSES

== Text of license (Apache 2.0)

 ./LICENSE.txt

Apache 2.0
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): dropwizard-jackson 2.1.7

```
Top Level License for dropwizard-jackson

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------
************************************************************
4P DEPENDENCIES

LICENSES

 io.dropwizard:dropwizard-util : The Apache Software License, Version 2.0
 text as above
 io.dropwizard.metrics:metrics-annotation : The Apache Software License,
 Version 2.0 text as above

NOTICE
```

```
Copyright (c) 2010-2013 Coda Hale, Yammer.com, 2014-2021 Dropwizard Team

Published under Apache Software License 2.0, see LICENSE

---------------------------------------------------------------------------------------

LICENSES

    com.fasterxml.jackson.core:jackson-annotations : The Apache Software
 License, Version 2.0 text as above
    com.fasterxml.jackson.core:jackson-core : The Apache Software License,
 Version 2.0 text as above
    com.fasterxml.jackson.core:jackson-databind : The Apache Software
 License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-guava : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-jsr310 : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-jdk8 : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-joda : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.module:jackson-module-jaxb-annotations : The
 Apache Software License, Version 2.0 text as above

NOTICES

    com.fasterxml.jackson.core:jackson-core
    com.fasterxml.jackson.core:jackson-databind
    com.fasterxml.jackson.module:jackson-module-blackbird

    # Jackson JSON processor

    Jackson is a high-performance, Free/Open Source JSON processing library.
    It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
    been in development since 2007.
    It is currently developed by a community of developers.

    ## Licensing

    Jackson 2.x core and extension components are licensed under Apache
 License 2.0
    To find the details that apply to this artifact see the accompanying
 LICENSE file.

    ## Credits

    A list of contributors may be found from CREDITS(-2.x) file, which is
 included
    in some artifacts (usually source distributions); but is always
 available
    from the source code management (SCM) system project uses.

---------------------------------------------------------------------------------------

LICENSES

    com.fasterxml.jackson.module:jackson-module-parameter-names : The Apache
 Software License, Version 2.0 text as above

NOTICE

# Jackson JSON processor
```

```
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


------------------------------------------------------------------------------------

LICENSE

    com.fasterxml.jackson.module:jackson-module-blackbird : The Apache
 Software License, Version 2.0 text as above

NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

------------------------------------------------------------------------------------

LICENSE

org.glassfish:jakarta.el : Eclipse Public License - v 2.0

Eclipse Public License - v 2.0
    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
```

```
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
```

```
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and
```

```
     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
```

PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient.

```
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.




NOTICE

Notices for Jakarta Expression Language
This content is produced and maintained by the Jakarta Expression Language
 project.

Project home: https://projects.eclipse.org/projects/ee4j.el
Trademarks
Jakarta Expression Language is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/el-ri
Third-party Content
Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.

-------------------------------------------------------------------------------------------


LICENSE
```

```
org.glassfish.hk2:hk2-locator : Eclipse Public License - v 2.0 text as above
org.glassfish.hk2.external: : Eclipse Public License - v 2.0 text as above


NOTICE

Notices for Eclipse GlassFish
This content is produced and maintained by the Eclipse GlassFish project.

Project home: https://projects.eclipse.org/projects/ee4j.glassfish
Trademarks
Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/glassfish-ha-api
https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
https://github.com/eclipse-ee4j/glassfish-shoal
https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
https://github.com/eclipse-ee4j/glassfish-jsftemplating
https://github.com/eclipse-ee4j/glassfish-hk2-extra
https://github.com/eclipse-ee4j/glassfish-hk2
https://github.com/eclipse-ee4j/glassfish-fighterfish
Third-party Content
This project leverages the following third party content.

None

Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.
-----------------------------------------------------------------------------------------

LICENSE

org.glassfish.hk2:osgi-resource-locator : Eclipse Public License - v 2.0
 text as above

NOTICE
```

```
  Copyright (c) 2009, 2018 Oracle and/or its affiliates. All rights
 reserved.

  This program and the accompanying materials are made available under the
  terms of the Eclipse Public License v. 2.0, which is available at
  http://www.eclipse.org/legal/epl-2.0.

  This Source Code may also be made available under the following Secondary
  Licenses when the conditions for such availability set forth in the
  Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
  version 2 with the GNU Classpath Exception, which is available at
  https://www.gnu.org/software/classpath/license.html.

  SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

--------------------------------------------------------------------------------

LICENSE

com.google.errorprone:error_prone_annotations : The Apache Software License,
 Version 2.0 text as above

NOTICE
# This is the list of Error Prone authors for copyright purposes.
#
# This does not necessarily list everyone who has contributed code, since in
# some cases, their employer may be the copyright holder.  To see the full
 list
# of contributors, see the revision history in source control.
Google Inc.
Two Sigma Open Source
--------------------------------------------------------------------------------

LICENSES

com.google.guava:guava : The Apache Software License, Version 2.0 text as
 above
com.google.guava:failureaccess  : The Apache Software License, Version 2.0
 text as above
com.google.guava:listenablefuture : The Apache Software License, Version 2.0
 text as above

NOTICE

com.google.guava:guava

   Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");

      The Apache Software License, Version 2.0 text as above

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------------------------------------

LICENSE
```

```
com.google.j2objc:j2objc-annotations : The Apache Software License, Version
 2.0 text as above

NOTICE
  Copyright 2012 Google Inc. All Rights Reserved.

  Licensed under the Apache License, Version 2.0 (the "License");

      The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
--------------------------------------------------------------------------------

LICENSE

jakarta.activation:jakarta.activation-api

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NOTICE

Notices for Eclipse Project for JAF
This content is produced and maintained by the Eclipse Project for JAF
 project.

Project home: https://projects.eclipse.org/projects/ee4j.jaf
Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
```

```
This program and the accompanying materials are made available under the
 terms of the Eclipse Distribution License v. 1.0, which is available at
 http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jaf
Third-party Content
This project leverages the following third party content.

JUnit (4.12)

License: Eclipse Public License
-----------------------------------------------------------------------------------------

LICENSE

jakarta.servlet:jakarta.servlet-api : Eclipse Public License v. 2.0 text as
 above

NOTICE

  Copyright (c) 2017, 2018 Oracle and/or its affiliates and others.
  All rights reserved.

  This program and the accompanying materials are made available under the
  terms of the Eclipse Public License v. 2.0, which is available at
  http://www.eclipse.org/legal/epl-2.0.

  This Source Code may also be made available under the following Secondary
  Licenses when the conditions for such availability set forth in the
  Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
  version 2 with the GNU Classpath Exception, which is available at
  https://www.gnu.org/software/classpath/license.html.

  SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
-----------------------------------------------------------------------------------------

LICENSE

org.jboss.logging:jboss-logging : The Apache Software License, Version 2.0
 text as above

NOTICE

  JBoss, Home of Professional Open Source.

  Copyright 2017 Red Hat, Inc.

  Licensed under the Apache License, Version 2.0 (the "License");

      The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-----------------------------------------------------------------------------------------

LICENSE
```

```
org.eclipse.jetty:jetty-util : Eclipse Public License - v 1.0

This program and the accompanying materials are made available under the
terms of the Eclipse Public License 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0, or the Apache Software License
2.0 which is available at https://www.apache.org/licenses/LICENSE-2.0.

Eclipse Public License - v 1.0

   THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
 PUBLIC
   LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE
 PROGRAM
   CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

   1. DEFINITIONS

   "Contribution" means:

   a) in the case of the initial Contributor, the initial code and
 documentation
      distributed under this Agreement, and
   b) in the case of each subsequent Contributor:
      i) changes to the Program, and
      ii) additions to the Program;

      where such changes and/or additions to the Program originate from and
 are
      distributed by that particular Contributor. A Contribution
 'originates'
      from a Contributor if it was added to the Program by such Contributor
      itself or anyone acting on such Contributor's behalf. Contributions do
 not
      include additions to the Program which: (i) are separate modules of
      software distributed in conjunction with the Program under their own
      license agreement, and (ii) are not derivative works of the Program.

   "Contributor" means any person or entity that distributes the Program.

   "Licensed Patents" mean patent claims licensable by a Contributor which
 are
   necessarily infringed by the use or sale of its Contribution alone or
 when
   combined with the Program.

   "Program" means the Contributions distributed in accordance with this
   Agreement.

   "Recipient" means anyone who receives the Program under this Agreement,
   including all Contributors.

   2. GRANT OF RIGHTS
   a) Subject to the terms of this Agreement, each Contributor hereby grants
      Recipient a non-exclusive, worldwide, royalty-free copyright license
 to
      reproduce, prepare derivative works of, publicly display, publicly
      perform, distribute and sublicense the Contribution of such
 Contributor,
      if any, and such derivative works, in source code and object code
 form.
   b) Subject to the terms of this Agreement, each Contributor hereby grants
      Recipient a non-exclusive, worldwide, royalty-free patent license
 under
```

```
     Licensed Patents to make, use, sell, offer to sell, import and
otherwise
     transfer the Contribution of such Contributor, if any, in source code
and
     object code form. This patent license shall apply to the combination
of
     the Contribution and the Program if, at the time the Contribution is
     added by the Contributor, such addition of the Contribution causes
such
     combination to be covered by the Licensed Patents. The patent license
     shall not apply to any other combinations which include the
Contribution.
     No hardware per se is licensed hereunder.
  c) Recipient understands that although each Contributor grants the
licenses
     to its Contributions set forth herein, no assurances are provided by
any
     Contributor that the Program does not infringe the patent or other
     intellectual property rights of any other entity. Each Contributor
     disclaims any liability to Recipient for claims brought by any other
     entity based on infringement of intellectual property rights or
     otherwise. As a condition to exercising the rights and licenses
granted
     hereunder, each Recipient hereby assumes sole responsibility to secure
     any other intellectual property rights needed, if any. For example, if
a
     third party patent license is required to allow Recipient to
distribute
     the Program, it is Recipient's responsibility to acquire that license
     before distributing the Program.
  d) Each Contributor represents that to its knowledge it has sufficient
     copyright rights in its Contribution, if any, to grant the copyright
     license set forth in this Agreement.

  3. REQUIREMENTS

  A Contributor may choose to distribute the Program in object code form
under
  its own license agreement, provided that:

  a) it complies with the terms and conditions of this Agreement; and
  b) its license agreement:
        i) effectively disclaims on behalf of all Contributors all
warranties
           and conditions, express and implied, including warranties or
           conditions of title and non-infringement, and implied warranties
or
           conditions of merchantability and fitness for a particular
purpose;
     ii) effectively excludes on behalf of all Contributors all liability
for
           damages, including direct, indirect, special, incidental and
           consequential damages, such as lost profits;
     iii) states that any provisions which differ from this Agreement are
           offered by that Contributor alone and not by any other party;
and
     iv) states that source code for the Program is available from such
           Contributor, and informs licensees how to obtain it in a
reasonable
           manner on or through a medium customarily used for software
exchange.

  When the Program is made available in source code form:
```

```
  a) it must be made available under this Agreement; and
  b) a copy of this Agreement must be included with each copy of the
Program.
     Contributors may not remove or alter any copyright notices contained
     within the Program.

  Each Contributor must identify itself as the originator of its
Contribution,
  if
  any, in a manner that reasonably allows subsequent Recipients to identify
the
  originator of the Contribution.

  4. COMMERCIAL DISTRIBUTION

  Commercial distributors of software may accept certain responsibilities
with
  respect to end users, business partners and the like. While this license
is
  intended to facilitate the commercial use of the Program, the Contributor
who
  includes the Program in a commercial product offering should do so in a
manner
  which does not create potential liability for other Contributors.
Therefore,
  if a Contributor includes the Program in a commercial product offering,
such
  Contributor ("Commercial Contributor") hereby agrees to defend and
indemnify
  every other Contributor ("Indemnified Contributor") against any losses,
  damages and costs (collectively "Losses") arising from claims, lawsuits
and
  other legal actions brought by a third party against the Indemnified
  Contributor to the extent caused by the acts or omissions of such
Commercial
  Contributor in connection with its distribution of the Program in a
commercial
  product offering. The obligations in this section do not apply to any
claims
  or Losses relating to any actual or alleged intellectual property
  infringement. In order to qualify, an Indemnified Contributor must:
  a) promptly notify the Commercial Contributor in writing of such claim,
and
  b) allow the Commercial Contributor to control, and cooperate with the
  Commercial Contributor in, the defense and any related settlement
  negotiations. The Indemnified Contributor may participate in any such
claim at
  its own expense.

  For example, a Contributor might include the Program in a commercial
product
  offering, Product X. That Contributor is then a Commercial Contributor.
If
  that Commercial Contributor then makes performance claims, or offers
  warranties related to Product X, those performance claims and warranties
are
  such Commercial Contributor's responsibility alone. Under this section,
the
  Commercial Contributor would have to defend claims against the other
  Contributors related to those performance claims and warranties, and if a
  court requires any other Contributor to pay any damages as a result, the
  Commercial Contributor must pay those damages.

  5. NO WARRANTY
```

```
  EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
ON AN
  "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
EXPRESS OR
  IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE,
  NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
Each
  Recipient is solely responsible for determining the appropriateness of
using
  and distributing the Program and assumes all risks associated with its
  exercise of rights under this Agreement , including but not limited to
the
  risks and costs of program errors, compliance with applicable laws,
damage to
  or loss of data, programs or equipment, and unavailability or
interruption of
  operations.

  6. DISCLAIMER OF LIABILITY

  EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
ANY
  CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
LIMITATION
  LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
  EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY
  OF SUCH DAMAGES.

  7. GENERAL

  If any provision of this Agreement is invalid or unenforceable under
  applicable law, it shall not affect the validity or enforceability of the
  remainder of the terms of this Agreement, and without further action by
the
  parties hereto, such provision shall be reformed to the minimum extent
  necessary to make such provision valid and enforceable.

  If Recipient institutes patent litigation against any entity (including a
  cross-claim or counterclaim in a lawsuit) alleging that the Program
itself
  (excluding combinations of the Program with other software or hardware)
  infringes such Recipient's patent(s), then such Recipient's rights
granted
  under Section 2(b) shall terminate as of the date such litigation is
filed.

  All Recipient's rights under this Agreement shall terminate if it fails
to
  comply with any of the material terms or conditions of this Agreement and
does
  not cure such failure in a reasonable period of time after becoming aware
of
  such noncompliance. If all Recipient's rights under this Agreement
terminate,
  Recipient agrees to cease use and distribution of the Program as soon as
  reasonably practicable. However, Recipient's obligations under this
Agreement
```

```
  and any licenses granted by Recipient relating to the Program shall
continue
  and survive.

  Everyone is permitted to copy and distribute copies of this Agreement,
but in
  order to avoid inconsistency the Agreement is copyrighted and may only be
  modified in the following manner. The Agreement Steward reserves the
right to
  publish new versions (including revisions) of this Agreement from time to
  time. No one other than the Agreement Steward has the right to modify
this
  Agreement. The Eclipse Foundation is the initial Agreement Steward. The
  Eclipse Foundation may assign the responsibility to serve as the
Agreement
  Steward to a suitable separate entity. Each new version of the Agreement
will
  be given a distinguishing version number. The Program (including
  Contributions) may always be distributed subject to the version of the
  Agreement under which it was received. In addition, after a new version
of the
  Agreement is published, Contributor may elect to distribute the Program
  (including its Contributions) under the new version. Except as expressly
  stated in Sections 2(a) and 2(b) above, Recipient receives no rights or
  licenses to the intellectual property of any Contributor under this
Agreement,
  whether expressly, by implication, estoppel or otherwise. All rights in
the
  Program not expressly granted under this Agreement are reserved.

  This Agreement is governed by the laws of the State of New York and the
  intellectual property laws of the United States of America. No party to
this
  Agreement will bring a legal action under this Agreement more than one
year
  after the cause of action arose. Each party waives its rights to a jury
trial in
  any resulting litigation.



                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
```

```
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

NOTICE
Notices for Eclipse Jetty
=========================
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.
```

```
Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v. 1.0
    http://www.eclipse.org/legal/epl-v10.html
    SPDX-License-Identifier: EPL-1.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0.
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

If ALPN is used to negotiate HTTP/2 connections, then the following
distribution may be included in the distribution or downloaded when ALPN
module is selected. These artifacts replace/modify OpenJDK classes.
The modifications are hosted at github and both modified and original
are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

 * java.sun.security.ssl

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
```

```
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
--------------------------------------------------------------------------------

LICENSE

org.slf4j:slf4j-api

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
```

```
LICENSE

org.checkerframework:checker-qual : The MIT License text as above

NOTICE

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers
-----------------------------------------------------------------------------------------------

LICENSE

com.google.code.findbugs:jsr305 : BSD 3-Clause license

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

== jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------

LICENSE

joda-time:joda-time : The Apache Software License, Version 2.0 text as above

NOTICE

==============================================================================
= NOTICE file corresponding to section 4d of the Apache License Version 2.0
 =
==============================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).

-------------------------------------------------------------------------------------------
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): dropwizard-jersey 2.1.7

```
Top Level License for dropwizard-jersey

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------
************************************************************
4P DEPENDENCIES

LICENSES

 io.dropwizard:dropwizard-jackson : The Apache Software License, Version 2.0
 text as above
 io.dropwizard:dropwizard-validation : The Apache Software License, Version
 2.0 text as above
 io.dropwizard:dropwizard-logging : The Apache Software License, Version 2.0
 text as above
```

```
 io.dropwizard:dropwizard-util : The Apache Software License, Version 2.0
 text as above
 io.dropwizard.metrics:metrics-core : The Apache Software License, Version
 2.0 text as above
 io.dropwizard.metrics:metrics-logback : The Apache Software License,
 Version 2.0 text as above
 io.dropwizard.metrics:metrics-jersey2 : The Apache Software License,
 Version 2.0 text as above
 io.dropwizard.metrics:metrics-annotation : The Apache Software License,
 Version 2.0 text as above
 io.dropwizard.logback:logback-throttling-appender : The Apache Software
 License, Version 2.0 text as above

NOTICE

Copyright (c) 2010-2013 Coda Hale, Yammer.com, 2014-2021 Dropwizard Team

Published under Apache Software License 2.0, see LICENSE

--------------------------------------------------------------------------------------------

LICENSES

    com.fasterxml.jackson.core:jackson-annotations : The Apache Software
 License, Version 2.0 text as above
    com.fasterxml.jackson.core:jackson-core : The Apache Software License,
 Version 2.0 text as above
    com.fasterxml.jackson.core:jackson-databind : The Apache Software
 License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-guava : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-jsr310 : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-jdk8 : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.datatype:jackson-datatype-joda : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.module:jackson-module-jaxb-annotations : The
 Apache Software License, Version 2.0 text as above
    com.fasterxml.jackson.jaxrs:jackson-jaxrs-base : The Apache Software
 License, Version 2.0 text as above

NOTICES

    com.fasterxml.jackson.core:jackson-core
    com.fasterxml.jackson.core:jackson-databind
    com.fasterxml.jackson.module:jackson-module-blackbird

    # Jackson JSON processor

    Jackson is a high-performance, Free/Open Source JSON processing library.
    It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
    been in development since 2007.
    It is currently developed by a community of developers.

    ## Licensing

    Jackson 2.x core and extension components are licensed under Apache
 License 2.0
    To find the details that apply to this artifact see the accompanying
 LICENSE file.

    ## Credits
```

```
    A list of contributors may be found from CREDITS(-2.x) file, which is
 included
    in some artifacts (usually source distributions); but is always
 available
    from the source code management (SCM) system project uses.

---------------------------------------------------------------------------------------

LICENSES

    com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider : The Apache
 Software License, Version 2.0 text as above
    com.fasterxml.jackson.module:jackson-module-parameter-names : The Apache
 Software License, Version 2.0 text as above

NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


---------------------------------------------------------------------------------------

LICENSE

    com.fasterxml.jackson.module:jackson-module-blackbird : The Apache
 Software License, Version 2.0 text as above

NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
```

```
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

-----------------------------------------------------------------------------------------

LICENSE

com.fasterxml:classmate : The Apache Software License, Version 2.0 text as
 above

NOTICE

Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

Other developers who have contributed code are:
* Brian Langel

-----------------------------------------------------------------------------------------

LICENSE

org.glassfish.jersey.ext:jersey-metainf-services : Eclipse Public License -
 v 2.0
org.glassfish.jersey.inject:jersey-hk2 : Eclipse Public License - v 2.0
org.glassfish.jersey.containers:jersey-container-servlet : Eclipse Public
 License - v 2.0
org.glassfish.jersey.containers:jersey-container-servlet-core: Eclipse
 Public License - v 2.0
org.glassfish.jersey.core:jersey-client : Eclipse Public License - v 2.0


Eclipse Public License - v 2.0
    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.
```

```
"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
```

```
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.
```

```
4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
```

```
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
```

```
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
```

```
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
```

```
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
```

```
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
```

```
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:
```

```
    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.
CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.


NOTICE

Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6
```

```
License MIT (http://www.opensource.org/licenses/mit-license.php)

            The MIT License (MIT)
      Copyright <YEAR> <COPYRIGHT HOLDER>

   Permission is hereby granted, free of charge, to any person obtaining a
 copy of this software and associated documentation files (the “Software”),
 to deal in the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

   The above copyright notice and this permission notice shall be included
 in all copies or substantial portions of the Software.

   THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0 text as above
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Hibernate Validator CDI, 6.2.4.Final

License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)

      The MIT License (MIT)

   Copyright (c) 2011-2023 The Bootstrap Authors

   Permission is hereby granted, free of charge, to any person obtaining a
 copy
   of this software and associated documentation files (the "Software"), to
 deal
   in the Software without restriction, including without limitation the
 rights
   to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
   copies of the Software, and to permit persons to whom the Software is
   furnished to do so, subject to the following conditions:

   The above copyright notice and this permission notice shall be included
 in
   all copies or substantial portions of the Software.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
   IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
   FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
   AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
   LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
   OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
   THE SOFTWARE.

Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0 text as above
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.29.0-GA

License: Apache License, 2.0 text as above
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.14.1

--------------------------------------------------------------------------------------------

LICENSE

org.glassfish.hk2:hk2-locator : Eclipse Public License - v 2.0 text as above
org.glassfish.hk2:hk2-api:jar: Eclipse Public License - v 2.0 text as above
org.glassfish.hk2:hk2-utils: : Eclipse Public License - v 2.0 text as above


NOTICE

Notices for Eclipse GlassFish
This content is produced and maintained by the Eclipse GlassFish project.

Project home: https://projects.eclipse.org/projects/ee4j.glassfish
Trademarks
Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/glassfish-ha-api
https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
https://github.com/eclipse-ee4j/glassfish-shoal
https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
https://github.com/eclipse-ee4j/glassfish-jsftemplating
```

```
https://github.com/eclipse-ee4j/glassfish-hk2-extra
https://github.com/eclipse-ee4j/glassfish-hk2
https://github.com/eclipse-ee4j/glassfish-fighterfish
Third-party Content
This project leverages the following third party content.

None

Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.
-----------------------------------------------------------------------------------------

LICENSE

org.glassfish.jersey.core:jersey-common : Eclipse Public License - v 2.0
 text as above

NOTICE

Notice for Jersey Core Common module
This content is produced and maintained by the Eclipse Jersey project.

https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Google Guava Version 18.0

License: Apache License, 2.0 text as above
Copyright: (C) 2009 The Guava Authors
JSR-166 Extension - JEP 266

License: Creative Commons 1.0 (CC0)
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166
Expert Group and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/
```

```
Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License: The MIT License text as above (http://www.opensource.org/licenses/
mit-license.php)
Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0 text as above
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Hibernate Validator CDI, 6.2.4.Final

License: Apache License, 2.0 text as above
Project: https://beanvalidation.org/
Repackaged in org.glassfish.jersey.server.validation.internal.hibernate
Bootstrap v3.3.7

License: The MIT license text as above (https://github.com/twbs/bootstrap/
blob/master/LICENSE)
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0 text as above
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.29.0-GA
```

```
License: Apache License, 2.0 text as above
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.14.1


--------------------------------------------------------------------------------

LICENSE

org.glassfish.jersey.core:jersey-server : Eclipse Public License - v 2.0
 text as above

NOTICE

Notice for Jersey Core Server module
This content is produced and maintained by the Eclipse Jersey project.

https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0 text as above
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
org.objectweb.asm Version 9.4

License: Modified BSD (https://asm.ow2.io/license.html) text as above
Copyright: (c) 2000-2011 INRIA, France Telecom. All rights reserved.
W3.org documents

License: W3C License text as above
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/

Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.
```

```
Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 text as above

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License: The MIT License text as above (http://www.opensource.org/licenses/
mit-license.php)
Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0 text as above
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Hibernate Validator CDI, 6.2.4.Final

License: Apache License, 2.0 text as above
Project: https://beanvalidation.org/
Repackaged in org.glassfish.jersey.server.validation.internal.hibernate
Bootstrap v3.3.7

License: The MIT license text as above (https://github.com/twbs/bootstrap/
blob/master/LICENSE)
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0 text as above
Copyright (C) 2009 The Guava Authors
javax.inject Version: 1

License: Apache License, 2.0 text as above
Copyright (C) 2009 The JSR-330 Expert Group
```

```
Javassist Version 3.29.0-GA

License: Apache License, 2.0 text as above
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.14.1

--------------------------------------------------------------------------------------------

LICENSE

com.google.code.findbugs:jsr305 : BSD 3-Clause

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

== jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------

LICENSE

com.google.errorprone:error_prone_annotations : The Apache Software License,
 Version 2.0 text as above

NOTICE
# This is the list of Error Prone authors for copyright purposes.
#
# This does not necessarily list everyone who has contributed code, since in
# some cases, their employer may be the copyright holder.  To see the full
 list
# of contributors, see the revision history in source control.
Google Inc.
Two Sigma Open Source
-------------------------------------------------------------------------------------------

LICENSES

com.google.guava:guava : The Apache Software License, Version 2.0 text as
 above
com.google.guava:failureaccess  : The Apache Software License, Version 2.0
 text as above
com.google.guava:listenablefuture : The Apache Software License, Version 2.0
 text as above

NOTICE

com.google.guava:guava

   Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");

      The Apache Software License, Version 2.0 text as above

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------

LICENSES

org.javassist:javassist


The Apache Software License, Version 2.0 text as above

MOZILLA PUBLIC LICENSE
   Version 1.1
   1. Definitions.
```

```
  1.0.1. "Commercial Use" means distribution or otherwise making the
Covered Code available to a third party.
  1.1. ''Contributor'' means each entity that creates or contributes to the
creation of Modifications.

  1.2. ''Contributor Version'' means the combination of the Original Code,
prior Modifications used by a Contributor, and the Modifications made by
that particular Contributor.

  1.3. ''Covered Code'' means the Original Code or Modifications or the
combination of the Original Code and Modifications, in each case including
portions thereof.

  1.4. ''Electronic Distribution Mechanism'' means a mechanism generally
accepted in the software development community for the electronic transfer
of data.

  1.5. ''Executable'' means Covered Code in any form other than Source
Code.

  1.6. ''Initial Developer'' means the individual or entity identified as
the Initial Developer in the Source Code notice required by Exhibit A.

  1.7. ''Larger Work'' means a work which combines Covered Code or portions
thereof with code not governed by the terms of this License.

  1.8. ''License'' means this document.

  1.8.1. "Licensable" means having the right to grant, to the maximum
extent possible, whether at the time of the initial grant or subsequently
acquired, any and all of the rights conveyed herein.

  1.9. ''Modifications'' means any addition to or deletion from the
substance or structure of either the Original Code or any previous
Modifications. When Covered Code is released as a series of files, a
Modification is:

  A. Any addition to or deletion from the contents of a file containing
Original Code or previous Modifications.
  B. Any new file that contains any part of the Original Code or previous
Modifications.


  1.10. ''Original Code'' means Source Code of computer software code which
is described in the Source Code notice required by Exhibit A as Original
Code, and which, at the time of its release under this License is not
already Covered Code governed by this License.
  1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter
acquired, including without limitation,  method, process, and apparatus
claims, in any patent Licensable by grantor.

  1.11. ''Source Code'' means the preferred form of the Covered Code for
making modifications to it, including all modules it contains, plus any
associated interface definition files, scripts used to control compilation
and installation of an Executable, or source code differential comparisons
against either the Original Code or another well known, available Covered
Code of the Contributor's choice. The Source Code can be in a compressed
or archival form, provided the appropriate decompression or de-archiving
software is widely available for no charge.

  1.12. "You'' (or "Your")  means an individual or a legal entity
exercising rights under, and complying with all of the terms of, this
License or a future version of this License issued under Section 6.1. For
```

```
 legal entities, "You'' includes any entity which controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 "control'' means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

   2. Source Code License.
   2.1. The Initial Developer Grant.
   The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive license, subject to third party intellectual property claims:
   (a)  under intellectual property rights (other than patent or trademark)
 Licensable by Initial Developer to use, reproduce, modify, display,
 perform, sublicense and distribute the Original Code (or portions thereof)
 with or without Modifications, and/or as part of a Larger Work; and
   (b) under Patents Claims infringed by the making, using or selling of
 Original Code, to make, have made, use, practice, sell, and offer for sale,
 and/or otherwise dispose of the Original Code (or portions thereof).

   (c) the licenses granted in this Section 2.1(a) and (b) are effective on
 the date Initial Developer first distributes Original Code under the terms
 of this License.
   (d) Notwithstanding Section 2.1(b) above, no patent license is granted:
 1) for code that You delete from the Original Code; 2) separate from the
 Original Code;  or 3) for infringements caused by: i) the modification of
 the Original Code or ii) the combination of the Original Code with other
 software or devices.


   2.2. Contributor Grant.
   Subject to third party intellectual property claims, each Contributor
 hereby grants You a world-wide, royalty-free, non-exclusive license

   (a)  under intellectual property rights (other than patent or trademark)
 Licensable by Contributor, to use, reproduce, modify, display, perform,
 sublicense and distribute the Modifications created by such Contributor (or
 portions thereof) either on an unmodified basis, with other Modifications,
 as Covered Code and/or as part of a Larger Work; and
   (b) under Patent Claims infringed by the making, using, or selling of
 Modifications made by that Contributor either alone and/or in combination
 with its Contributor Version (or portions of such combination), to make,
 use, sell, offer for sale, have made, and/or otherwise dispose of: 1)
 Modifications made by that Contributor (or portions thereof); and 2) the
 combination of  Modifications made by that Contributor with its Contributor
 Version (or portions of such combination).

   (c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on
 the date Contributor first makes Commercial Use of the Covered Code.

   (d)    Notwithstanding Section 2.2(b) above, no patent license is
 granted: 1) for any code that Contributor has deleted from the Contributor
 Version; 2)  separate from the Contributor Version;  3)  for infringements
 caused by: i) third party modifications of Contributor Version or ii)  the
 combination of Modifications made by that Contributor with other software
  (except as part of the Contributor Version) or other devices; or 4) under
 Patent Claims infringed by Covered Code in the absence of Modifications
 made by that Contributor.


   3. Distribution Obligations.

   3.1. Application of License.
   The Modifications which You create or to which You contribute are
 governed by the terms of this License, including without limitation Section
```

2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

(a) Third Party Claims.

If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL'' which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

(b) Contributor APIs.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add

your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.
You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.7. Larger Works.
You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.
If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.
5. Application of this License.
This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.
6. Versions of the License.
6.1. New Versions.
Netscape Communications Corporation (''Netscape'') may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.
6.2. Effect of New Versions.
Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Netscape. No one other

```
than Netscape has the right to modify the terms applicable to Covered Code
created under this License.

  6.3. Derivative Works.
  If You create or use a modified version of this License (which you may
only do in order to apply it to code which is not already Covered Code
governed by this License), You must (a) rename Your license so that the
phrases ''Mozilla'', ''MOZILLAPL'', ''MOZPL'', ''Netscape'', "MPL", ''NPL''
or any confusingly similar phrase do not appear in your license (except to
note that your license differs from this License) and (b) otherwise make it
clear that Your version of the license contains terms which differ from the
Mozilla Public License and Netscape Public License. (Filling in the name of
the Initial Developer, Original Code or Contributor in the notice described
in Exhibit A shall not of themselves be deemed to be modifications of this
License.)

  7. DISCLAIMER OF WARRANTY.
  COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS'' BASIS,
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS,
MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE
RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH
YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT
THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE
IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.
  8. TERMINATION.
  8.1.  This License and the rights granted hereunder will terminate
automatically if You fail to comply with terms herein and fail to cure such
breach within 30 days of becoming aware of the breach. All sublicenses to
the Covered Code which are properly granted shall survive any termination
of this License. Provisions which, by their nature, must remain in effect
beyond the termination of this License shall survive.
  8.2.  If You initiate litigation by asserting a patent infringement
claim (excluding declatory judgment actions) against Initial Developer or
a Contributor (the Initial Developer or Contributor against whom You file
such action is referred to as "Participant")  alleging that:

  (a)  such Participant's Contributor Version directly or indirectly
infringes any patent, then any and all rights granted by such Participant
to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days
notice from Participant terminate prospectively, unless if within 60
days after receipt of notice You either: (i)  agree in writing to pay
Participant a mutually agreeable reasonable royalty for Your past and
future use of Modifications made by such Participant, or (ii) withdraw
Your litigation claim with respect to the Contributor Version against such
Participant.  If within 60 days of notice, a reasonable royalty and payment
arrangement are not mutually agreed upon in writing by the parties or the
litigation claim is not withdrawn, the rights granted by Participant to You
under Sections 2.1 and/or 2.2 automatically terminate at the expiration of
the 60 day notice period specified above.

  (b)  any software, hardware, or device, other than such Participant's
Contributor Version, directly or indirectly infringes any patent, then
any rights granted to You by such Participant under Sections 2.1(b) and
2.2(b) are revoked effective as of the date You first made, used, sold,
distributed, or had made, Modifications made by that Participant.

  8.3.  If You assert a patent infringement claim against Participant
alleging that such Participant's Contributor Version directly or indirectly
infringes any patent where such claim is resolved (such as by license or
settlement) prior to the initiation of patent infringement litigation,
then the reasonable value of the licenses granted by such Participant under
```

```
Sections 2.1 or 2.2 shall be taken into account in determining the amount
or value of any payment or license.

  8.4.  In the event of termination under Sections 8.1 or 8.2 above,  all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or any distributor hereunder prior to
termination shall survive termination.

  9. LIMITATION OF LIABILITY.
  UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING
NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY
OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF
ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL,
INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE
OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN
IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES.
THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR
PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT
APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW
THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS
EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.
  10. U.S. GOVERNMENT END USERS.
  The Covered Code is a ''commercial item,'' as that term is defined in 48
C.F.R. 2.101 (Oct. 1995), consisting of ''commercial computer software''
and ''commercial computer software documentation,'' as such terms are used
in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48
C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End
Users acquire Covered Code with only those rights set forth herein.
  11. MISCELLANEOUS.
  This License represents the complete agreement concerning subject matter
hereof. If any provision of this License is held to be unenforceable,
such provision shall be reformed only to the extent necessary to make it
enforceable. This License shall be governed by California law provisions
(except to the extent applicable law, if any, provides otherwise),
excluding its conflict-of-law provisions. With respect to disputes in
which at least one party is a citizen of, or an entity chartered or
registered to do business in the United States of America, any litigation
relating to this License shall be subject to the jurisdiction of the
Federal Courts of the Northern District of California, with venue lying
in Santa Clara County, California, with the losing party responsible for
costs, including without limitation, court costs and reasonable attorneys'
fees and expenses. The application of the United Nations Convention on
Contracts for the International Sale of Goods is expressly excluded. Any
law or regulation which provides that the language of a contract shall be
construed against the drafter shall not apply to this License.
  12. RESPONSIBILITY FOR CLAIMS.
  As between Initial Developer and the Contributors, each party is
responsible for claims and damages arising, directly or indirectly, out
of its utilization of rights under this License and You agree to work
with Initial Developer and Contributors to distribute such responsibility
on an equitable basis. Nothing herein is intended or shall be deemed to
constitute any admission of liability.
  13. MULTIPLE-LICENSED CODE.
  Initial Developer may designate portions of the Covered Code as
"Multiple-Licensed".  "Multiple-Licensed" means that the Initial Developer
permits you to utilize portions of the Covered Code under Your choice
of the MPL or the alternative licenses, if any, specified by the Initial
Developer in the file described in Exhibit A.

  EXHIBIT A -Mozilla Public License.
```

```
  The contents of this file are subject to the Mozilla Public License
Version 1.1 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at
  http://www.mozilla.org/MPL/
  Software distributed under the License is distributed on an "AS IS"
basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
License for the specific language governing rights and limitations under
the License.

  The Original Code is Javassist.

  The Initial Developer of the Original Code is Shigeru Chiba. Portions
created by the Initial Developer are
  Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

  Contributor(s): __Bill Burke, Jason T. Greene_______________.

  Alternatively, the contents of this software may be used under the terms
of the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),
or the Apache License Version 2.0 (the "AL"), in which case the provisions
of the LGPL or the AL are applicable instead of those above. If you wish to
allow use of your version of this software only under the terms of either
the LGPL or the AL, and not to allow others to use your version of this
software under the terms of the MPL, indicate your decision by deleting
the provisions above and replace them with the notice and other provisions
required by the LGPL or the AL. If you do not delete the provisions above,
a recipient may use your version of this software under the terms of any
one of the MPL, the LGPL or the AL.

  If you obtain this software as part of JBoss, the contents of this
software may be used under only the terms of the LGPL. To use them under
the MPL, you must obtain a separate package including only Javassist but
not the other part of JBoss.

  All the contributors to the original source tree have agreed to the
original license term described above.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

  Copyright (C) 1991, 1999 Free Software Foundation, Inc.
  51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
  Everyone is permitted to copy and distribute verbatim copies
  of this license document, but changing it is not allowed.

  [This is the first released version of the Lesser GPL.  It also counts
  as the successor of the GNU Library Public License, version 2, hence
  the version number 2.1.]
  Preamble
  The licenses for most software are designed to take away your freedom
to share and change it. By contrast, the GNU General Public Licenses are
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the Free
Software Foundation and other authors who decide to use it. You can use it
too, but we suggest you first think carefully about whether this license
or the ordinary General Public License is the better strategy to use in any
particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use, not
price. Our General Public Licenses are designed to make sure that you have
the freedom to distribute copies of free software (and charge for this
```

```
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

   To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

   For example, if you distribute copies of the library, whether gratis or
 for a fee, you must give the recipients all the rights that we gave you.
 You must make sure that they, too, receive or can get the source code.
 If you link other code with the library, you must provide complete object
 files to the recipients, so that they can relink them with the library
 after making changes to the library and recompiling it. And you must show
 them these terms so they know their rights.

   We protect your rights with a two-step method: (1) we copyright
 the library, and (2) we offer you this license, which gives you legal
 permission to copy, distribute and/or modify the library.

   To protect each distributor, we want to make it very clear that there
 is no warranty for the free library. Also, if the library is modified by
 someone else and passed on, the recipients should know that what they have
 is not the original version, so that the original author's reputation will
 not be affected by problems that might be introduced by others.

   Finally, software patents pose a constant threat to the existence of
 any free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

   Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

   When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

   We call this license the "Lesser" General Public License because it
 does Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

   For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.
```

```
  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of free
software. For example, permission to use the GNU C Library in non-free
programs enables many more people to use the whole GNU operating system, as
well as its variant, the GNU/Linux operating system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is linked
with the Library has the freedom and the wherewithal to run that program
using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former
contains code derived from the library, whereas the latter must be combined
with the library in order to run.

  TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or other
authorized party saying it may be distributed under the terms of this
Lesser General Public License (also called "this License"). Each licensee
is addressed as "you".

  A "library" means a collection of software functions and/or data prepared
so as to be conveniently linked with application programs (which use some
of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work which
has been distributed under these terms. A "work based on the Library" means
either the Library or any derivative work under copyright law: that is
to say, a work containing the Library or a portion of it, either verbatim
or with modifications and/or translated straightforwardly into another
language. (Hereinafter, translation is included without limitation in the
term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running a
program using the Library is not restricted, and output from such a program
is covered only if its contents constitute a work based on the Library
(independent of the use of the Library in a tool for writing it). Whether
that is true depends on what the Library does and what the program that
uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the notices
that refer to this License and to the absence of any warranty; and
distribute a copy of this License along with the Library.

  You may charge a fee for the physical act of transferring a copy, and you
may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Library or any portion of
it, thus forming a work based on the Library, and copy and distribute such
modifications or work under the terms of Section 1 above, provided that you
also meet all of these conditions:
```

```
  a) The modified work must itself be a software library.
  b) You must cause the files modified to carry prominent notices stating
that you changed the files and the date of any change.
  c) You must cause the whole of the work to be licensed at no charge to
all third parties under the terms of this License.
  d) If a facility in the modified Library refers to a function or a table
of data to be supplied by an application program that uses the facility,
other than as an argument passed when the facility is invoked, then you
must make a good faith effort to ensure that, in the event an application
does not supply such function or table, the facility still operates, and
performs whatever part of its purpose remains meaningful.
  (For example, a function in a library to compute square roots has a
purpose that is entirely well-defined independent of the application.
Therefore, Subsection 2d requires that any application-supplied function or
table used by this function must be optional: if the application does not
supply it, the square root function must still compute square roots.)

  These requirements apply to the modified work as a whole. If identifiable
sections of that work are not derived from the Library, and can be
reasonably considered independent and separate works in themselves,
then this License, and its terms, do not apply to those sections when
you distribute them as separate works. But when you distribute the same
sections as part of a whole which is a work based on the Library, the
distribution of the whole must be on the terms of this License, whose
permissions for other licensees extend to the entire whole, and thus to
each and every part regardless of who wrote it.

  Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or collective
works based on the Library.

  In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do this,
you must alter all the notices that refer to this License, so that they
refer to the ordinary GNU General Public License, version 2, instead of
to this License. (If a newer version than version 2 of the ordinary GNU
General Public License has appeared, then you can specify that version
instead if you wish.) Do not make any other change in these notices.

  Once this change is made in a given copy, it is irreversible for that
copy, so the ordinary GNU General Public License applies to all subsequent
copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or derivative
of it, under Section 2) in object code or executable form under the terms
of Sections 1 and 2 above provided that you accompany it with the complete
corresponding machine-readable source code, which must be distributed
under the terms of Sections 1 and 2 above on a medium customarily used for
software interchange.

  If distribution of object code is made by offering access to copy from a
designated place, then offering equivalent access to copy the source code
from the same place satisfies the requirement to distribute the source
```

```
code, even though third parties are not compelled to copy the source along
with the object code.

  5. A program that contains no derivative of any portion of the Library,
but is designed to work with the Library by being compiled or linked with
it, is called a "work that uses the Library". Such a work, in isolation, is
not a derivative work of the Library, and therefore falls outside the scope
of this License.

  However, linking a "work that uses the Library" with the Library creates
an executable that is a derivative of the Library (because it contains
portions of the Library), rather than a "work that uses the library". The
executable is therefore covered by this License. Section 6 states terms for
distribution of such executables.

  When a "work that uses the Library" uses material from a header file that
is part of the Library, the object code for the work may be a derivative
work of the Library even though the source code is not. Whether this is
true is especially significant if the work can be linked without the
Library, or if the work is itself a library. The threshold for this to be
true is not precisely defined by law.

  If such an object file uses only numerical parameters, data structure
layouts and accessors, and small macros and small inline functions (ten
lines or less in length), then the use of the object file is unrestricted,
regardless of whether it is legally a derivative work. (Executables
containing this object code plus portions of the Library will still fall
under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6. Any executables
containing that work also fall under Section 6, whether or not they are
linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a work
containing portions of the Library, and distribute that work under terms
of your choice, provided that the terms permit modification of the work
for the customer's own use and reverse engineering for debugging such
modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work during
execution displays copyright notices, you must include the copyright notice
for the Library among them, as well as a reference directing the user to
the copy of this License. Also, you must do one of these things:

  a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever changes were used in the
work (which must be distributed under Sections 1 and 2 above); and, if the
work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the
user who changes the contents of definitions files in the Library will
not necessarily be able to recompile the application to use the modified
definitions.)
  b) Use a suitable shared library mechanism for linking with the Library.
A suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than copying
library functions into the executable, and (2) will operate properly with
a modified version of the library, if the user installs one, as long as the
```

```
modified version is interface-compatible with the version that the work was
made with.
  c) Accompany the work with a written offer, valid for at least three
years, to give the same user the materials specified in Subsection 6a,
above, for a charge no more than the cost of performing this distribution.
  d) If distribution of the work is made by offering access to copy from
a designated place, offer equivalent access to copy the above specified
materials from the same place.
  e) Verify that the user has already received a copy of these materials or
that you have already sent this user a copy.
  For an executable, the required form of the "work that uses the Library"
must include any data and utility programs needed for reproducing the
executable from it. However, as a special exception, the materials to be
distributed need not include anything that is normally distributed (in
either source or binary form) with the major components (compiler, kernel,
and so on) of the operating system on which the executable runs, unless
that component itself accompanies the executable.

  It may happen that this requirement contradicts the license restrictions
of other proprietary libraries that do not normally accompany the operating
system. Such a contradiction means you cannot use both them and the Library
together in an executable that you distribute.

  7. You may place library facilities that are a work based on the Library
side-by-side in a single library together with other library facilities not
covered by this License, and distribute such a combined library, provided
that the separate distribution of the work based on the Library and of the
other library facilities is otherwise permitted, and provided that you do
these two things:

  a) Accompany the combined library with a copy of the same work based on
the Library, uncombined with any other library facilities. This must be
distributed under the terms of the Sections above.
  b) Give prominent notice with the combined library of the fact that part
of it is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.
  8. You may not copy, modify, sublicense, link with, or distribute the
Library except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, link with, or distribute the Library
is void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under this
License will not have their licenses terminated so long as such parties
remain in full compliance.

  9. You are not required to accept this License, since you have not signed
it. However, nothing else grants you permission to modify or distribute
the Library or its derivative works. These actions are prohibited by law if
you do not accept this License. Therefore, by modifying or distributing the
Library (or any work based on the Library), you indicate your acceptance
of this License to do so, and all its terms and conditions for copying,
distributing or modifying the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the original
licensor to copy, distribute, link with or modify the Library subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties with this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
```

so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY

```
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

   16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS
   How to Apply These Terms to Your New Libraries
   If you develop a new library, and you want it to be of the greatest
 possible use to the public, we recommend making it free software that
 everyone can redistribute and change. You can do so by permitting
 redistribution under these terms (or, alternatively, under the terms of the
 ordinary General Public License).

   To apply these terms, attach the following notices to the library. It is
 safest to attach them to the start of each source file to most effectively
 convey the exclusion of warranty; and each file should have at least the
 "copyright" line and a pointer to where the full notice is found.

   one line to give the library's name and an idea of what it does.
   Copyright (C) year  name of author

   This library is free software; you can redistribute it and/or
   modify it under the terms of the GNU Lesser General Public
   License as published by the Free Software Foundation; either
   version 2.1 of the License, or (at your option) any later version.

   This library is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
   Lesser General Public License for more details.

   You should have received a copy of the GNU Lesser General Public
   License along with this library; if not, write to the Free Software
   Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301
  USA
   Also add information on how to contact you by electronic and paper mail.

   You should also get your employer (if you work as a programmer) or
 your school, if any, to sign a "copyright disclaimer" for the library, if
 necessary. Here is a sample; alter the names:

   Yoyodyne, Inc., hereby disclaims all copyright interest in
   the library `Frob' (a library for tweaking knobs) written
   by James Random Hacker.

   signature of Ty Coon, 1 April 1990
   Ty Coon, President of Vice
   That's all there is to it!

NOTICE

  Javassist, a Java-bytecode translator toolkit.
  Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

  The contents of this file are subject to the Mozilla Public License
 Version
```

```
  1.1 (the "License"); you may not use this file except in compliance with
  the License.  Alternatively, the contents of this file may be used under
  the terms of the GNU Lesser General Public License Version 2.1 or later,
  or the Apache License Version 2.0.

  Software distributed under the License is distributed on an "AS IS" basis,
  WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
  for the specific language governing rights and limitations under the
  License.

-----------------------------------------------------------------------------------------

LICENSE

jakarta.annotation:jakarta.annotation-api : Eclipse Public License - v 2.0
 text as above

NOTICE

Notices for Jakarta Annotations
This content is produced and maintained by the Jakarta Annotations project.

Project home: https://projects.eclipse.org/projects/ee4j.ca
Trademarks
Jakarta Annotations is a trademark of the Eclipse Foundation.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/common-annotations-api
Third-party Content
Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.
-----------------------------------------------------------------------------------------

LICENSE

jakarta.inject:jakarta.inject-api : Apache Software License, Version 2.0
 text as above

NOTICE

Notices for Eclipse Jakarta Dependency Injection
This content is produced and maintained by the Eclipse Jakarta Dependency
 Injection project.

Project home: https://projects.eclipse.org/projects/cdi.batch
Trademarks
```

```
Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Apache License, Version 2.0 which is available at https://
www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api https://github.com/eclipse-
ee4j/injection-spec https://github.com/eclipse-ee4j/injection-tck

Third-party Content
This project leverages the following third party content.

None

Cryptography
None
--------------------------------------------------------------------------------

LICENSE

jakarta.servlet:jakarta.servlet-api : Eclipse Public License v. 2.0 text as
 above

NOTICE

  Copyright (c) 2017, 2018 Oracle and/or its affiliates and others.
  All rights reserved.

  This program and the accompanying materials are made available under the
  terms of the Eclipse Public License v. 2.0, which is available at
  http://www.eclipse.org/legal/epl-2.0.

  This Source Code may also be made available under the following Secondary
  Licenses when the conditions for such availability set forth in the
  Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
  version 2 with the GNU Classpath Exception, which is available at
  https://www.gnu.org/software/classpath/license.html.

  SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
--------------------------------------------------------------------------------

LICENSE

jakarta.validation:jakarta.validation-api : Eclipse Public License v. 2.0
 text as above

NOTICE

  Copyright (c) 1997, 2018 Oracle and/or its affiliates and others.
  All rights reserved.

  This program and the accompanying materials are made available under the
  terms of the Eclipse Public License v. 2.0, which is available at
```

```
  http://www.eclipse.org/legal/epl-2.0.

  This Source Code may also be made available under the following Secondary
  Licenses when the conditions for such availability set forth in the
  Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
  version 2 with the GNU Classpath Exception, which is available at
  https://www.gnu.org/software/classpath/license.html.

  SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
--------------------------------------------------------------------------------

LICENSE

jakarta.ws.rs:jakarta.ws.rs-api : Eclipse Public License - v 2.0

NOTICE

Notices for the Jakarta RESTful Web Services Project
This content is produced and maintained by the Jakarta RESTful Web Services
 project.

Project home: https://projects.eclipse.org/projects/ee4j.jaxrs
Trademarks
Jakarta RESTful Web Services is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jaxrs-api

Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.
--------------------------------------------------------------------------------

LICENSE

jakarta.xml.bind:jakarta.xml.bind-api

Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
```

```
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NOTICE

Notices for Jakarta XML Binding
This content is produced and maintained by the Jakarta XML Binding project.

Project home: https://projects.eclipse.org/projects/ee4j.jaxb
Trademarks
Jakarta XML Binding is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Distribution License v. 1.0 which is available at
 http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jaxb-api
https://github.com/eclipse-ee4j/jaxb-tck

Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.

-----------------------------------------------------------------------------------------

LICENSE

joda-time:joda-time : The Apache Software License, Version 2.0 text as above
```

```
NOTICE

= NOTICE file corresponding to section 4d of the Apache License Version 2.0
 =
==========================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).

---------------------------------------------------------------------------------------------

LICENSE

org.hibernate.validator:hibernate-validator, The Apache Software License,
 Version 2.0 text as above

NOTICE

Contributors:
Adam Stawicki
Ahmed Al Hafoudh
Alaa Nassef
Andrey Derevyanko
Andrey Rodionov
Asutosh Pandya
Benson Margulies
Brent Douglas
Carlos Vara
Carlo de Wolf
Chris Beckey
Christian Ivan
Dag Hovland
Damir Alibegovic
Dario Seidl
Davide D'Alto
Davide Marchignoli
Denis Tiago
Doug Lea
Emmanuel Bernard
Efthymis Sarbanis
Federico
Federico Mancini
Gavin King
George Gastaldi
Gerhard Petracek
Guillaume Husta
Guillaume Smet
Gunnar Morling
Hardy Ferentschik
Henno Vermeulen
Hillmer Chona
Jan-Willem Willebrands
Jason T. Greene
Jesper Preuss
Jiri Bilek
Julien Furgerot
Julien May
Juraci Krohling
Justin Nauman
Kathryn Killebrew
Kazuki Shimizu
Kevin Pollet
Khalid Alqinyah
```

```
Lee KyoungIl
Leonardo Loch Zanivan
Lucas Pouzac
Lukas Niemeier
Mark Hobson
Marko Bekhta
Matthias Kurz
Mert C¸alis¸kan
Michal Fotyga
Nicola Ferraro
Nicolas François
Paolo Perrotta
Pete Muir
Rob Dickinson
Sanne Grinovero
Sebastian Bayerl
Shahram Goodarzi
Shane Bryzak
Shelly McGowan
Sjaak Derksen
Steve Ebersole
Strong Liu
Tadhg Pearson
Takashi Aoe
Tomaz Cerar
Tommy Johansen
Victor Rezende dos Santos
Willi Schönborn
Xavier Sosnovsky
Yanming Zhou
Yoann Rodière
-------------------------------------------------------------------------------------------

LICENSE

org.jboss.logging:jboss-logging : The Apache Software License, Version 2.0
 text as above

NOTICE

  JBoss, Home of Professional Open Source.

  Copyright 2017 Red Hat, Inc.

  Licensed under the Apache License, Version 2.0 (the "License");

      The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------------------------------------------------------------------------------------------

LICENSE

org.eclipse.jetty:jetty-io : Eclipse Public License - v 1.0
org.eclipse.jetty:jetty-util : Eclipse Public License - v 1.0

This program and the accompanying materials are made available under the
terms of the Eclipse Public License 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0, or the Apache Software License
2.0 which is available at https://www.apache.org/licenses/LICENSE-2.0.
```

```
Eclipse Public License - v 1.0

  THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
PUBLIC
  LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE
PROGRAM
  CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

  1. DEFINITIONS

  "Contribution" means:

  a) in the case of the initial Contributor, the initial code and
documentation
     distributed under this Agreement, and
  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;

     where such changes and/or additions to the Program originate from and
are
     distributed by that particular Contributor. A Contribution
'originates'
     from a Contributor if it was added to the Program by such Contributor
     itself or anyone acting on such Contributor's behalf. Contributions do
not
     include additions to the Program which: (i) are separate modules of
     software distributed in conjunction with the Program under their own
     license agreement, and (ii) are not derivative works of the Program.

  "Contributor" means any person or entity that distributes the Program.

  "Licensed Patents" mean patent claims licensable by a Contributor which
are
  necessarily infringed by the use or sale of its Contribution alone or
when
  combined with the Program.

  "Program" means the Contributions distributed in accordance with this
  Agreement.

  "Recipient" means anyone who receives the Program under this Agreement,
  including all Contributors.

  2. GRANT OF RIGHTS
  a) Subject to the terms of this Agreement, each Contributor hereby grants
     Recipient a non-exclusive, worldwide, royalty-free copyright license
to
     reproduce, prepare derivative works of, publicly display, publicly
     perform, distribute and sublicense the Contribution of such
Contributor,
     if any, and such derivative works, in source code and object code
form.
  b) Subject to the terms of this Agreement, each Contributor hereby grants
     Recipient a non-exclusive, worldwide, royalty-free patent license
under
     Licensed Patents to make, use, sell, offer to sell, import and
otherwise
     transfer the Contribution of such Contributor, if any, in source code
and
     object code form. This patent license shall apply to the combination
of
     the Contribution and the Program if, at the time the Contribution is
```

```
     added by the Contributor, such addition of the Contribution causes
such
     combination to be covered by the Licensed Patents. The patent license
     shall not apply to any other combinations which include the
Contribution.
     No hardware per se is licensed hereunder.
  c) Recipient understands that although each Contributor grants the
licenses
     to its Contributions set forth herein, no assurances are provided by
any
     Contributor that the Program does not infringe the patent or other
     intellectual property rights of any other entity. Each Contributor
     disclaims any liability to Recipient for claims brought by any other
     entity based on infringement of intellectual property rights or
     otherwise. As a condition to exercising the rights and licenses
granted
     hereunder, each Recipient hereby assumes sole responsibility to secure
     any other intellectual property rights needed, if any. For example, if
a
     third party patent license is required to allow Recipient to
distribute
     the Program, it is Recipient's responsibility to acquire that license
     before distributing the Program.
  d) Each Contributor represents that to its knowledge it has sufficient
     copyright rights in its Contribution, if any, to grant the copyright
     license set forth in this Agreement.

  3. REQUIREMENTS

  A Contributor may choose to distribute the Program in object code form
under
  its own license agreement, provided that:

  a) it complies with the terms and conditions of this Agreement; and
  b) its license agreement:
        i) effectively disclaims on behalf of all Contributors all
warranties
           and conditions, express and implied, including warranties or
           conditions of title and non-infringement, and implied warranties
or
           conditions of merchantability and fitness for a particular
purpose;
     ii) effectively excludes on behalf of all Contributors all liability
for
           damages, including direct, indirect, special, incidental and
           consequential damages, such as lost profits;
     iii) states that any provisions which differ from this Agreement are
           offered by that Contributor alone and not by any other party;
and
     iv) states that source code for the Program is available from such
           Contributor, and informs licensees how to obtain it in a
reasonable
           manner on or through a medium customarily used for software
exchange.

  When the Program is made available in source code form:

  a) it must be made available under this Agreement; and
  b) a copy of this Agreement must be included with each copy of the
Program.
     Contributors may not remove or alter any copyright notices contained
     within the Program.
```

```
  Each Contributor must identify itself as the originator of its
Contribution,
  if
  any, in a manner that reasonably allows subsequent Recipients to identify
the
  originator of the Contribution.

  4. COMMERCIAL DISTRIBUTION

  Commercial distributors of software may accept certain responsibilities
with
  respect to end users, business partners and the like. While this license
is
  intended to facilitate the commercial use of the Program, the Contributor
who
  includes the Program in a commercial product offering should do so in a
manner
  which does not create potential liability for other Contributors.
Therefore,
  if a Contributor includes the Program in a commercial product offering,
such
  Contributor ("Commercial Contributor") hereby agrees to defend and
indemnify
  every other Contributor ("Indemnified Contributor") against any losses,
  damages and costs (collectively "Losses") arising from claims, lawsuits
and
  other legal actions brought by a third party against the Indemnified
  Contributor to the extent caused by the acts or omissions of such
Commercial
  Contributor in connection with its distribution of the Program in a
commercial
  product offering. The obligations in this section do not apply to any
claims
  or Losses relating to any actual or alleged intellectual property
  infringement. In order to qualify, an Indemnified Contributor must:
  a) promptly notify the Commercial Contributor in writing of such claim,
and
  b) allow the Commercial Contributor to control, and cooperate with the
  Commercial Contributor in, the defense and any related settlement
  negotiations. The Indemnified Contributor may participate in any such
claim at
  its own expense.

  For example, a Contributor might include the Program in a commercial
product
  offering, Product X. That Contributor is then a Commercial Contributor.
If
  that Commercial Contributor then makes performance claims, or offers
  warranties related to Product X, those performance claims and warranties
are
  such Commercial Contributor's responsibility alone. Under this section,
the
  Commercial Contributor would have to defend claims against the other
  Contributors related to those performance claims and warranties, and if a
  court requires any other Contributor to pay any damages as a result, the
  Commercial Contributor must pay those damages.

  5. NO WARRANTY

  EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
ON AN
  "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
EXPRESS OR
```

```
  IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE,
  NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
Each
  Recipient is solely responsible for determining the appropriateness of
using
  and distributing the Program and assumes all risks associated with its
  exercise of rights under this Agreement , including but not limited to
the
  risks and costs of program errors, compliance with applicable laws,
damage to
  or loss of data, programs or equipment, and unavailability or
interruption of
  operations.

  6. DISCLAIMER OF LIABILITY

  EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
ANY
  CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
LIMITATION
  LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
  EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY
  OF SUCH DAMAGES.

  7. GENERAL

  If any provision of this Agreement is invalid or unenforceable under
  applicable law, it shall not affect the validity or enforceability of the
  remainder of the terms of this Agreement, and without further action by
the
  parties hereto, such provision shall be reformed to the minimum extent
  necessary to make such provision valid and enforceable.

  If Recipient institutes patent litigation against any entity (including a
  cross-claim or counterclaim in a lawsuit) alleging that the Program
itself
  (excluding combinations of the Program with other software or hardware)
  infringes such Recipient's patent(s), then such Recipient's rights
granted
  under Section 2(b) shall terminate as of the date such litigation is
filed.

  All Recipient's rights under this Agreement shall terminate if it fails
to
  comply with any of the material terms or conditions of this Agreement and
does
  not cure such failure in a reasonable period of time after becoming aware
of
  such noncompliance. If all Recipient's rights under this Agreement
terminate,
  Recipient agrees to cease use and distribution of the Program as soon as
  reasonably practicable. However, Recipient's obligations under this
Agreement
  and any licenses granted by Recipient relating to the Program shall
continue
  and survive.
```

```
  Everyone is permitted to copy and distribute copies of this Agreement,
but in
  order to avoid inconsistency the Agreement is copyrighted and may only be
  modified in the following manner. The Agreement Steward reserves the
right to
  publish new versions (including revisions) of this Agreement from time to
  time. No one other than the Agreement Steward has the right to modify
this
  Agreement. The Eclipse Foundation is the initial Agreement Steward. The
  Eclipse Foundation may assign the responsibility to serve as the
Agreement
  Steward to a suitable separate entity. Each new version of the Agreement
will
  be given a distinguishing version number. The Program (including
  Contributions) may always be distributed subject to the version of the
  Agreement under which it was received. In addition, after a new version
of the
  Agreement is published, Contributor may elect to distribute the Program
  (including its Contributions) under the new version. Except as expressly
  stated in Sections 2(a) and 2(b) above, Recipient receives no rights or
  licenses to the intellectual property of any Contributor under this
Agreement,
  whether expressly, by implication, estoppel or otherwise. All rights in
the
  Program not expressly granted under this Agreement are reserved.

  This Agreement is governed by the laws of the State of New York and the
  intellectual property laws of the United States of America. No party to
this
  Agreement will bring a legal action under this Agreement more than one
year
  after the cause of action arose. Each party waives its rights to a jury
trial in
  any resulting litigation.



                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

NOTICE
Notices for Eclipse Jetty
=========================
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).
```

```
Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v. 1.0
    http://www.eclipse.org/legal/epl-v10.html
    SPDX-License-Identifier: EPL-1.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0.
    SPDX-License-Identifier: Apache-2.0

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

If ALPN is used to negotiate HTTP/2 connections, then the following
distribution may be included in the distribution or downloaded when ALPN
module is selected. These artifacts replace/modify OpenJDK classes.
The modifications are hosted at github and both modified and original
are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

 * java.sun.security.ssl

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
```

```
 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
--------------------------------------------------------------------------------

LICENSE

org.slf4j:jul-to-slf4j


  Copyright (c) 2004-2011 QOS.ch
  All rights reserved.

  Permission is hereby granted, free  of charge, to any person obtaining
  a  copy  of this  software  and  associated  documentation files  (the
  "Software"), to  deal in  the Software without  restriction, including
  without limitation  the rights to  use, copy, modify,  merge, publish,
  distribute,  sublicense, and/or sell  copies of  the Software,  and to
  permit persons to whom the Software  is furnished to do so, subject to
  the following conditions:

  The  above  copyright  notice  and  this permission  notice  shall  be
  included in all copies or substantial portions of the Software.

  THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
  EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
  MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

LICENSE

org.slf4j:slf4j-api

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
```

```
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------------------

LICENSE

org.slf4j:jcl-over-slf4j : The Apache Software License, Version 2.0 text as
 above
org.slf4j:log4j-over-slf4j : The Apache Software License, Version 2.0 text
 as above

NOTICE

  Copyright 2001-2004 The Apache Software Foundation.

  Licensed under the Apache License, Version 2.0 (the "License");

   The Apache Software License, Version 2.0 text as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

------------------------------------------------------------------------------------------

LICENSE

org.checkerframework:checker-qual : The MIT License text as above

NOTICE

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

------------------------------------------------------------------------------------------

LICENSE

ch.qos.logback:logback-core : Eclipse Public License - v 1.0 text as above
ch.qos.logback:logback-classic : Eclipse Public License - v 1.0 text as
 above
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): dropwizard-lifecycle 2.1.7

```
Copyright: Coda Hale, Yammer Inc
=== Source URL: https://github.com/dropwizard/dropwizard/tree/v2.1.7/
dropwizard-lifecycle
License: Apache 2.0
```

```
./LICENSE

Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
```

```
   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   ./Notices.

   Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

-------------- Separator --------------

Dependency: com.google.code.findbugs:jsr305
Copyright: JSR305 expert group
=== Source URL: https://github.com/findbugsproject/findbugs/releases

License: BSD 3-Clause

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:
=== (NOTE: software below RELICENSED to Oracle under BSD 3-clause)

Copyright (c) 2005, Brian Goetz and Tim Peierls
```

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

Dependency: org.slf4j:slf4j-api
Copyright: QOS.ch
=== Source URL: https://github.com/qos-ch/slf4j/tree/v_1.7.36/slf4j-api
License: MIT

 ./LICENSE.txt

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


-------------- Separator --------------

Dependency:
org.eclipse.jetty:jetty-server
org.eclipse.jetty:jetty-http
```

```
org.eclipse.jetty:jetty-io
org.eclipse.jetty:jetty-util

Copyright: Eclipse Foundation
=== Source URL: https://github.com/eclipse/jetty.project/tree/
jetty-9.4.51.v20230217/jetty-server
=== Source URL: https://github.com/eclipse/jetty.project/tree/
jetty-9.4.51.v20230217/jetty-util
=== Source URL: https://github.com/eclipse/jetty.project/tree/
jetty-9.4.51.v20230217/jetty-io
=== Source URL: https://github.com/eclipse/jetty.project/tree/
jetty-9.4.51.v20230217/jetty-http
License: Apache 2.0; EPL 1.0

 ./LICENSE

EPL 1.0,Apache 2.0

EPL 1.0

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
   distributed under this Agreement, and
b) in the case of each subsequent Contributor:
    i) changes to the Program, and
   ii) additions to the Program;

   where such changes and/or additions to the Program originate from and are
   distributed by that particular Contributor. A Contribution 'originates'
   from a Contributor if it was added to the Program by such Contributor
   itself or anyone acting on such Contributor's behalf. Contributions do
 not
   include additions to the Program which: (i) are separate modules of
   software distributed in conjunction with the Program under their own
   license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS
  a) Subject to the terms of this Agreement, each Contributor hereby grants
     Recipient a non-exclusive, worldwide, royalty-free copyright license to
     reproduce, prepare derivative works of, publicly display, publicly
     perform, distribute and sublicense the Contribution of such
 Contributor,
```

```
     if any, and such derivative works, in source code and object code form.
  b) Subject to the terms of this Agreement, each Contributor hereby grants
     Recipient a non-exclusive, worldwide, royalty-free patent license under
     Licensed Patents to make, use, sell, offer to sell, import and
 otherwise
     transfer the Contribution of such Contributor, if any, in source code
 and
     object code form. This patent license shall apply to the combination of
     the Contribution and the Program if, at the time the Contribution is
     added by the Contributor, such addition of the Contribution causes such
     combination to be covered by the Licensed Patents. The patent license
     shall not apply to any other combinations which include the
 Contribution.
     No hardware per se is licensed hereunder.
  c) Recipient understands that although each Contributor grants the
 licenses
     to its Contributions set forth herein, no assurances are provided by
 any
     Contributor that the Program does not infringe the patent or other
     intellectual property rights of any other entity. Each Contributor
     disclaims any liability to Recipient for claims brought by any other
     entity based on infringement of intellectual property rights or
     otherwise. As a condition to exercising the rights and licenses granted
     hereunder, each Recipient hereby assumes sole responsibility to secure
     any other intellectual property rights needed, if any. For example, if
 a
     third party patent license is required to allow Recipient to distribute
     the Program, it is Recipient's responsibility to acquire that license
     before distributing the Program.
  d) Each Contributor represents that to its knowledge it has sufficient
     copyright rights in its Contribution, if any, to grant the copyright
     license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
its own license agreement, provided that:

  a) it complies with the terms and conditions of this Agreement; and
  b) its license agreement:
      i) effectively disclaims on behalf of all Contributors all warranties
         and conditions, express and implied, including warranties or
         conditions of title and non-infringement, and implied warranties or
         conditions of merchantability and fitness for a particular purpose;
     ii) effectively excludes on behalf of all Contributors all liability
 for
         damages, including direct, indirect, special, incidental and
         consequential damages, such as lost profits;
    iii) states that any provisions which differ from this Agreement are
         offered by that Contributor alone and not by any other party; and
     iv) states that source code for the Program is available from such
         Contributor, and informs licensees how to obtain it in a reasonable
         manner on or through a medium customarily used for software
 exchange.

When the Program is made available in source code form:

  a) it must be made available under this Agreement; and
  b) a copy of this Agreement must be included with each copy of the
 Program.
     Contributors may not remove or alter any copyright notices contained
     within the Program.

Each Contributor must identify itself as the originator of its Contribution,
```

```
if
any, in a manner that reasonably allows subsequent Recipients to identify
 the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
 who
includes the Program in a commercial product offering should do so in a
 manner
which does not create potential liability for other Contributors. Therefore,
if a Contributor includes the Program in a commercial product offering, such
Contributor ("Commercial Contributor") hereby agrees to defend and indemnify
every other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits and
other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such Commercial
Contributor in connection with its distribution of the Program in a
 commercial
product offering. The obligations in this section do not apply to any claims
or Losses relating to any actual or alleged intellectual property
infringement. In order to qualify, an Indemnified Contributor must:
a) promptly notify the Commercial Contributor in writing of such claim, and
b) allow the Commercial Contributor to control, and cooperate with the
Commercial Contributor in, the defense and any related settlement
negotiations. The Indemnified Contributor may participate in any such claim
 at
its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If
that Commercial Contributor then makes performance claims, or offers
warranties related to Product X, those performance claims and warranties are
such Commercial Contributor's responsibility alone. Under this section, the
Commercial Contributor would have to defend claims against the other
Contributors related to those performance claims and warranties, and if a
court requires any other Contributor to pay any damages as a result, the
Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS
 OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
 TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using
and distributing the Program and assumes all risks associated with its
exercise of rights under this Agreement , including but not limited to the
risks and costs of program errors, compliance with applicable laws, damage
 to
or loss of data, programs or equipment, and unavailability or interruption
 of
operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION
LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY
OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of the
remainder of the terms of this Agreement, and without further action by the
parties hereto, such provision shall be reformed to the minimum extent
necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program itself
(excluding combinations of the Program with other software or hardware)
infringes such Recipient's patent(s), then such Recipient's rights granted
under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
 does
not cure such failure in a reasonable period of time after becoming aware of
such noncompliance. If all Recipient's rights under this Agreement
 terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient's obligations under this
 Agreement
and any licenses granted by Recipient relating to the Program shall continue
and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right
 to
publish new versions (including revisions) of this Agreement from time to
time. No one other than the Agreement Steward has the right to modify this
Agreement. The Eclipse Foundation is the initial Agreement Steward. The
Eclipse Foundation may assign the responsibility to serve as the Agreement
Steward to a suitable separate entity. Each new version of the Agreement
 will
be given a distinguishing version number. The Program (including
Contributions) may always be distributed subject to the version of the
Agreement under which it was received. In addition, after a new version of
 the
Agreement is published, Contributor may elect to distribute the Program
(including its Contributions) under the new version. Except as expressly
stated in Sections 2(a) and 2(b) above, Recipient receives no rights or
licenses to the intellectual property of any Contributor under this
 Agreement,
whether expressly, by implication, estoppel or otherwise. All rights in the
Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury
 trial in
any resulting litigation.

-------------- Separator --------------
```

```
 ./NOTICE.txt

Notices for Eclipse Jetty
=========================
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v. 1.0
    http://www.eclipse.org/legal/epl-v10.html
    SPDX-License-Identifier: EPL-1.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0.
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish


If ALPN is used to negotiate HTTP/2 connections, then the following
distribution may be included in the distribution or downloaded when ALPN
module is selected. These artifacts replace/modify OpenJDK classes.
The modifications are hosted at github and both modified and original
are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

 * java.sun.security.ssl

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl
```

```
The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.

-------------- Separator --------------

Dependency: jakarta.servlet:jakarta.servlet-api
Copyright: Eclipse Foundation
=== Source URL: https://github.com/eclipse-ee4j/servlet-api/tree/4.0.4-
RELEASE/api
License: EPL 2.0 + GPL v.2 with CPE

 ./LICENSE.md

EPL 2.0 + GPL v.2 with CPE


-------------- Separator --------------

Eclipse Public License - v 2.0

  THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS
```

```
"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
```

```
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.
```

```
3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
```

```
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice
```

```
"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
```

```
Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
```

```
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.
```

```
5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
```

```
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA
```

```
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.


-------------- Separator --------------

 ./NOTICE.md

# Notices for Eclipse Project for Servlet

This content is produced and maintained by the Eclipse Project for Servlet
project.

* Project home: https://projects.eclipse.org/projects/ee4j.servlet

## Trademarks
```

```
Eclipse Project for Servlet is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/servlet-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.


-------------- Separator --------------

Dependency: io.dropwizard:dropwizard-util
Copyright: Coda Hale, Yammer Inc
=== Source URL: https://github.com/dropwizard/dropwizard/tree/v2.1.7/
dropwizard-util
License: Apache 2.0

 ./LICENSE

Apache 2.0

-------------- Separator --------------

 ./NOTICE
```

```
-------------- Separator --------------
Dependency: io.dropwizard.metrics:metrics-core
Copyright: Coda Hale, Yammer Inc
=== Source URL: https://github.com/dropwizard/metrics/tree/v4.2.19/metrics-
core
License: Apache 2.0

 ./LICENSE

Apache 2.0

-------------- Separator --------------

Dependency: com.fasterxml.jackson.core:jackson-annotations
=== Source URL: https://github.com/FasterXML/jackson-annotations/tree/
jackson-annotations-2.13.5
Licence: Apache 2.0

./LICENSE

Apache 2.0

-------------- Separator --------------

Dependency: com.google.guava:guava
com.google.guava:failureaccess
com.google.guava:listenablefuture

=== Source URL: https://github.com/google/guava/tree/v32.0.1/guava
=== Source URL: https://github.com/google/guava/tree/v32.0.1/futures/
failureaccess
=== Source URL: https://github.com/google/guava/tree/v32.0.1/futures/
listenablefuture9999


Licence: Apache 2.0

./LICENSE

Apache 2.0

-------------- Separator --------------

Dependency: org.checkerframework:checker-qual

=== Source URL: https://github.com/typetools/checker-framework/tree/checker-
framework-3.33.0/checker-qual

Licence: MIT

./LICENCE

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-------------- Separator --------------

Dependency: com.google.errorprone:error_prone_annotations

=== Source URL: https://github.com/google/error-prone/tree/v2.18.0/
annotations

Licence: Apache 2.0

./LICENSE

Apache 2.0

-------------- Separator --------------

Dependency: com.google.j2objc:j2objc-annotations

=== Source URL: https://github.com/google/j2objc/tree/2.8/annotations

Licence: Apache 2.0

./LICENSE

Apache 2.0
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): dropwizard-servlets 2.1.7

```
Copyright: Coda Hale, Yammer Inc
=== Source URL: https://github.com/dropwizard/dropwizard/tree/v2.1.7/
dropwizard-servlets
License: Apache 2.0

 ./LICENSE

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
```

```
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   ./Notices.
```

```
   Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

-------------- Separator --------------

Dependency: com.google.code.findbugs:jsr305
Copyright: JSR305 expert group
=== Source URL: https://github.com/findbugsproject/findbugs/releases

License: BSD 3-Clause

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:
=== (NOTE: software below RELICENSED to Oracle under BSD 3-clause)

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

Dependency: org.slf4j:slf4j-api
Copyright: QOS.ch
=== Source URL: https://github.com/qos-ch/slf4j/tree/v_1.7.36/slf4j-api
License: MIT

 ./LICENSE.txt

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------------- Separator --------------

Dependency: jakarta.servlet:jakarta.servlet-api
Copyright: Eclipse Foundation
=== Source URL: https://github.com/eclipse-ee4j/servlet-api/tree/4.0.4-
RELEASE/api
License: EPL 2.0 + GPL v.2 with CPE

 ./LICENSE.md

EPL 2.0 + GPL v.2 with CPE


-------------- Separator --------------

Eclipse Public License - v 2.0

  THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
```

```
1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
```

```
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.
```

```
3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
```

```
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice
```

```
"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
```

```
Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
```

```
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.
```

```
5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
```

```
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
```

```
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.


-------------- Separator --------------

 ./NOTICE.md

# Notices for Eclipse Project for Servlet

This content is produced and maintained by the Eclipse Project for Servlet
project.

* Project home: https://projects.eclipse.org/projects/ee4j.servlet
```

```
## Trademarks

Eclipse Project for Servlet is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/servlet-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.


-------------- Separator --------------

Dependency: io.dropwizard:dropwizard-util
Copyright: Coda Hale, Yammer Inc
=== Source URL: https://github.com/dropwizard/dropwizard/tree/v2.1.7/
dropwizard-util
License: Apache 2.0

 ./LICENSE

Apache 2.0

-------------- Separator --------------

 ./NOTICE
```

```
same as top-level

-------------- Separator --------------
Dependency: io.dropwizard.metrics:metrics-core
io.dropwizard.metrics:metrics-annotation

Copyright: Coda Hale, Yammer Inc
=== Source URL: https://github.com/dropwizard/metrics/tree/v4.2.19/metrics-
core
=== Source URL: https://github.com/dropwizard/metrics/tree/v4.2.19/metrics-
annotation

License: Apache 2.0

 ./LICENSE

Apache 2.0

-------------- Separator --------------

Dependency: com.fasterxml.jackson.core:jackson-annotations
=== Source URL: https://github.com/FasterXML/jackson-annotations/tree/
jackson-annotations-2.13.5
Licence: Apache 2.0

./LICENSE

Apache 2.0

-------------- Separator --------------

Dependency: com.google.guava:guava
=== Source URL: https://github.com/google/guava/tree/v32.0.1/guava
Licence: Apache 2.0

Dependency: com.google.guava:failureaccess
=== Source URL: https://github.com/google/guava/tree/v32.0.1/futures/
failureaccess
Licence: Apache 2.0

Dependency: com.google.guava:listenablefuture
=== Source URL: https://github.com/google/guava/tree/v32.0.1/futures/
listenablefuture9999
Licence: Apache 2.0


./LICENSE

Apache 2.0

-------------- Separator --------------

Dependency: org.checkerframework:checker-qual

=== Source URL: https://github.com/typetools/checker-framework/tree/checker-
framework-3.33.0/checker-qual

Licence: MIT

./LICENCE

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers
```

```
MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-------------- Separator --------------

Dependency: com.google.errorprone:error_prone_annotations
=== Source URL: https://github.com/google/error-prone/tree/v2.18.0/
annotations
Licence: Apache 2.0

./LICENSE

Apache 2.0

-------------- Separator --------------

Dependency: com.google.j2objc:j2objc-annotations
=== Source URL: https://github.com/google/j2objc/tree/2.8/annotations
Licence: Apache 2.0

./LICENSE

Apache 2.0


--------------------------------(separator)---------------------------------

Dependency: ch.qos.logback:logback-classic
=== Source URL: https://github.com/qos-ch/logback/tree/v_1.2.12/logback-
classic
License Type: EPL 1.0; LGPL v.2.1

Dependency: ch.qos.logback:logback-core
=== Source URL: https://github.com/qos-ch/logback/tree/v_1.2.12/logback-core
License Type: EPL 1.0; LGPL v.2.1

== Copyright Notices:

../LICENSE.txt

Logback LICENSE
---------------

Logback: the reliable, generic, fast and flexible logging framework.
```

```
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.

--------------------------------(separator)---------------------------------
== LICENSES

https://logback.qos.ch/license.html

Logback License

As of release 0.9.18, logback source code and binaries are dual-licensed
 under the EPL v1.0 and the LGPL 2.1, or more formally:

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2022, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

     or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.

The EPL/LGPL dual-license serves several purposes. The LGPL license ensures
 continuity in terms of licensing of the logback project. Prior to version
 0.9.18, logback was licensed (exclusively) under the LGPL v2.1. Moreover,
 since the EPL is deemed incompatible by the Free Software Foundation, the
 LGPL will allow various licensees, in particular software distributors who
 may be already bound by the terms of the GPL or the LGPL, to distribute our
 software.

On the other hand, the EPL license will placate organizations which refuse
 certain restrictions imposed by the LGPL.

Please note that logback-classic is intended to be used behind the SLF4J
 API, which is licensed under the MIT license.

If you wish to make a significant contribution to the logback project, you
 are invited to file a Contributor License Agreement. The purpose of this
 agreement is to formalize the terms of your contribution and to protect the
 project in case of litigation.

Upon request, we may exempt open-source projects from LGPL and EPL's
 reciprocity clauses so that the said projects can develop logback
 extensions under the license of their choice. Exemptions are granted on a
 case by case basis.

== Text of license (EPL 1.0)

=== https://www.eclipse.org/legal/epl-v10.html

Eclipse Public License - v 1.0
```

```
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
```

```
3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:

a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY
```

```
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
```

```
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.

== Text of license (LGPL v.2.1)

=== https://www.gnu.org/licenses/old-licenses/lgpl-2.1.txt

                  GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
```

```
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
```

```
  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.
```

```
    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.
```

```
  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.
```

```
    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.
```

```
  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
```

```
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                     END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
```

```
  Ty Coon, President of Vice

That's all there is to it!
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): dropwizard-util 2.1.6

```
Copyright: Coda Hale, Yammer Inc
License: Apache 2.0

 ./LICENSE


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
```

```
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
```

```
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------

 ./NOTICE

Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.


-------------- Separator --------------

Dependency: com.fasterxml.jackson.core:jackson-annotations
Copyright: FasterXML,LLC
License: Apache 2.0

 ./LICENSE

                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
```

```
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


-------------- Separator --------------

 ./src/main/resources/META-INF/LICENSE

This copy of Jackson JSON processor annotations is licensed under the
Apache (Software) License, version 2.0 ("the License").
```

```
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

-------------- Separator --------------

 ./LICENSE

src/main/resources/META-INF/LICENSE



-------------- Separator --------------

Dependency: com.google.code.findbugs:jsr305
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.
=== Source URL: https://github.com/findbugsproject/findbugs/
tree/3.0.2_preview2
License: BSD 3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

Dependency: jcip-annotations
License: BSD 3-Clause

Copyright (c) 2005, Brian Goetz and Tim Peierls
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
```

```
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

Dependency: com.google.errorprone:error_prone_annotations
Copyright: Google
License: Apache 2.0

 ./COPYING

Apache 2.0



-------------- Separator --------------

Dependency: com.google.guava:failureaccess
Copyright: Google
License: Apache 2.0

 ./COPYING

Apache 2.0



-------------- Separator --------------

Dependency: com.google.guava:guava
Copyright: Google
License: Apache 2.0

 ./COPYING

Apache 2.0



-------------- Separator --------------

Dependency: com.google.guava:listenablefuture
Copyright: Google
License: Apache 2.0
```

```
 ./COPYING

Apache 2.0



-------------- Separator --------------

Dependency: com.google.j2objc:j2objc-annotations
Copyright: Google
License: Apache 2.0

 ./LICENSE

Apache 2.0


-------------- Separator --------------

Dependency: org.checkerframework:checker-qual
Copyright: Checker Framework
License: MIT

 ./checker-qual/LICENSE.txt

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers
MIT License:
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-------------- Separator --------------




 === Entry created by OSCS on 2022-09-08T10:36:52.927
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): metrics-healthchecks 4.2.19

```
Component: io.dropwizard.metrics:metrics-healthchecks
Copyright: Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020
 Dropwizard Team
License: Apache 2.0

                                    Apache License
```

```
                           Versio
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."
```

```
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
```

```
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Code Hale, Inc., Yammer Inc. and the Dropwizard Team / Component(s): metrics-healthchecks 4.2.26

```
------------------------------- Top-level license -------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
```

```
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
```

```
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
```

```
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------

/*
 * Copyright 2007-present the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

---------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY 1
com.helger:profiler
io.dropwizard.metrics:metrics-core

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

--------------------------------(separator)---------------------------------
```

```
== NAME OF DEPENDENCY 2
org.slf4j:slf4j-api

== License
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Codehaus / Component(s): Animal Sniffer 1.17.0

```
animal-sniffer-annotations 1.17.0

COPYRIGHT and LICENSE:
The MIT License

  Copyright (c) 2009 codehaus.org.

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
  THE SOFTWARE.
```

Provider: Codehaus / Component(s): Jettison 1.4.0

```
Copyright 2006 Envoi Solutions LLC
```

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
```

```
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
```

```
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2019 Apache Foundation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: comail / Component(s): colog fba8e7b1f46c3607f09760ce3880066e7ff57c5a

```
The MIT License (MIT)

Copyright (c) 2015 comail

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: connect2id / Component(s): Nimbus JOSE+JWT 9.31

```
-------------------------  Copyright Info  ----------------------------
Nimbus JOSE + JWT

Copyright 2012 - 2022, Connect2id Ltd.
```

```
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License. You may obtain a copy of
 the
License at

   https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the
specific language governing permissions and limitations under the License.

------------------------------------------------------------------------------------------
      Apache License
                        Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
```

```
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
```

```
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS
-----------------------------------------------------------------------------

4th Party Dependencies:


1. com.github.stephenc.jcip » jcip-annotations  (Apache 2.0)

/*
 * Copyright 2013 Stephen Connolly.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
-------------------------------------------------------------------------
```

Provider: Connect2id Ltd / Component(s): Nimbus JOSE+JWT 9.10

```
--------------------------  Copyright Info  ---------------------------
/*
 * nimbus-jose-jwt
 *
 * Copyright 2012-2020, Connect2id Ltd.
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use
 * this file except in compliance with the License. You may obtain a copy of
 the
 * License at
 *
 *    http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed
 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES
 OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for
 the
 * specific language governing permissions and limitations under the
 License.
 */
-------------------------------------------------------------------------

4th Party Dependencies:

1. com.github.stephenc.jcip » jcip-annotations  V 1.0-1  (Apache 2.0)
2. net.minidev » json-smart  V 2.3  (Apache 2.0)

1. com.github.stephenc.jcip » jcip-annotations  V 1.0-1  (Apache 2.0)
--------------------------  Copyright Info  ---------------------------
/*
 * Copyright 2013 Stephen Connolly.
 *
```

```
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
--------------------------------------------------------------------------

2. net.minidev » json-smart  V 2.3  (Apache 2.0)
-------------------------  Copyright Info  ---------------------------
/*
 *    Copyright 2011 JSON-SMART authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
--------------------------------------------------------------------------

2.1 net.minidev » accessors-smart  V 1.2  (Apache 2.0)
-------------------------  Copyright Info  ---------------------------
/*
 *    Copyright 2011 JSON-SMART authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
--------------------------------------------------------------------------
2.1.1 org.ow2.asm » asm  V 5.0.4  (BSD 3-clause)
-------------------------  Copyright Info  ---------------------------
/***
 * ASM: a very small and fast Java bytecode manipulation framework
 * Copyright (c) 2000-2011 INRIA, France Telecom
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
```

```
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. Neither the name of the copyright holders nor the names of its
 *    contributors may be used to endorse or promote products derived from
 *    this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 * THE POSSIBILITY OF SUCH DAMAGE.
 */
-------------------------------------------------------------------------

-------------------------- Apache 2.0 License -------------------------
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
---------------------------------------------------------------------------

-------------------------  BSD 3-clause License  ------------------------
The 3-Clause BSD License
SPDX short identifier: BSD-3-Clause

Further resources on the 3-clause BSD license


OSI Approved License Logo

Note: This license has also been called the "New BSD License" or "Modified
 BSD License". See also the 2-clause BSD License.

Copyright <YEAR> <COPYRIGHT HOLDER>

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------------------------------------
```

Provider: Connect2id Ltd. / Component(s): Nimbus JOSE+JWT 9.5

```
*************************************************************
********* Copied from LT Public License & Copyright Notices *********

Nimbus JOSE+JWT :
Copyright 2012 - 2020, Connect2id Ltd.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
```

```
this file except in compliance with the License. You may obtain a copy of
 the
License at
   http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the
specific language governing permissions and limitations under the License.

---------separator---------
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
 ---------separator---------

4th party dependencies:
com.github.stephenc.jcip » jcip-annotations 1.0-1 - Apache License, Version
 2.0
/*
 * Copyright 2013 Stephen Connolly.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
---------separator---------
com.google.crypto.tink » tink 1.5.0 (optional) - Apache License, Version 2.0
// Copyright 2017 Google Inc.
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//      http://www.apache.org/licenses/LICENSE-2.0
```

```
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.
//
////////////////////////////////////////////////////////////////////////////////
---------separator---------
net.minidev » json-smart 1.3.1 - Apache License, Version 2.0
/*
 *    Copyright 2011 JSON-SMART authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
---------separator---------
org.ow2.asm » asm 8.0.1
ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.
 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
 ---------separator---------
org.bouncycastle » bcprov-jdk15on (optional)  - Bouncy Castle Licence
The MIT License (MIT)
Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
                          (http://www.bouncycastle.org)
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
 ---------separator---------
org.bouncycastle » bcpkix-jdk15on (optional) - Bouncy Castle Licence
Copyright (c) 2000-2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)
<p>
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software
and associated documentation files (the "Software"), to deal in the Software
 without restriction,
including without limitation the rights to use, copy, modify, merge,
 publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so,
subject to the following conditions:
<p>
The above copyright notice and this permission notice shall be included in
 all copies or substantial
portions of the Software.
<p>
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.
 ---------separator---------
```

Provider: Containous / Component(s): Traefik 2.11.0

```
github.com/traefik/traefik/v2
-------- Copyrights
Copyright (c) 2016-2020 Containous SAS; 2020-2024 Traefik Labs
Copyright (c) 2006, Ivan Sagalaev

-------- License
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
gopkg.in/yaml.v3
-------- Copyrights
Copyright 2011-2016 Canonical Ltd.
copyright staring in 2011 when the project was ported over:
Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov
Copyright (c) 2011-2019 Canonical Ltd
-------- Notices
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


-------- Dependencies Summary
gopkg.in/yaml.v3

-------- License used by Dependencies

This project is covered by two different licenses: MIT and Apache.

#### MIT License ####

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

    apic.go emitterc.go parserc.go readerc.go scannerc.go
    writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
```

```
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

### Apache License ###

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
gopkg.in/DataDog/dd-trace-go.v1
-------- Copyrights
Copyright (c) 2016-Present, Datadog <info@datadoghq.com>
Copyright 2022 Datadog, Inc.
import,io.opentracing,Apache-2.0,Copyright 2016-2017 The OpenTracing Authors
appsec,https://github.com/DataDog/libddwaf,Apache-2.0 OR BSD-3-
Clause,Copyright (c) 2021 Datadog <info@datadoghq.com>
golang,https://go.googlesource.com/go,BSD-3-Clause,Copyright (c) 2009 The Go
 Authors
Copyright 2016-Present Datadog, Inc.
Copyright 2016 Datadog, Inc.
copyrightRegexp matches years or year ranges like "2016", "2016-2019",
Copyright 2023 Datadog, Inc.
Copyright 2014 The Go-MySQL-Driver Authors. All rights reserved.
Copyright 2016-present Datadog, Inc.
Copyright 2021 Datadog, Inc.
-------- Notices
Datadog dd-trace-go
Copyright 2016-Present Datadog, Inc.

This product includes software developed at Datadog, Inc. (https://
www.datadoghq.com/).
```

```
-------- Dependencies Summary
gopkg.in/DataDog/dd-trace-go.v1

-------- License used by Dependencies
## License

This work is dual-licensed under Apache 2.0 or BSD3.
You may select, at your option, one of the above-listed licenses.

`SPDX-License-Identifier: Apache-2.0 OR BSD-3-Clause`

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
```

```
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
```

```
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2016 Datadog, Inc.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

---

Copyright (c) 2016-Present, Datadog <info@datadoghq.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of Datadog nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/munnerz/goautoneg
-------- Copyrights
Copyright (c) 2011, Open Knowledge Foundation Ltd.

-------- Dependencies Summary
github.com/munnerz/goautoneg

-------- License used by Dependencies
```

```
Copyright (c) 2011, Open Knowledge Foundation Ltd.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

    Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

    Neither the name of the Open Knowledge Foundation Ltd. nor the
    names of its contributors may be used to endorse or promote
    products derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/klauspost/compress
-------- Copyrights
Copyright 2023+ Klaus Post. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2011 The Snappy-Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.
Copyright 2016-2017 The New York Times Company
Copyright (c) 2015 Klaus Post
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
Copyright 2016 The filepathx Authors
Copyright 2019+ Klaus Post. All rights reserved.
Copyright 2018 Klaus Post. All rights reserved.
Based on work Copyright (c) 2013, Yann Collet, released under BSD License.
Copyright 2012 The Go Authors. All rights reserved.
Copyright (c) 2021 Klaus Post. All rights reserved.
Copyright (c) 2015, Pierre Curto
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2016 The Snappy-Go Authors. All rights reserved.
Copyright 2023 Google LLC
Copyright 2010 The Go Authors. All rights reserved.
Copyright (c) 2016 Evan Huus
Copyright (c) 2023 Klaus Post
Copyright (c) 2023+ Klaus Post. All rights reserved.
Copyright (c) 2023 Klaus Post. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright (c) 2016 Caleb Spare
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
```

```
Copyright (c) 2019+ Klaus Post. All rights reserved.\n\n")
Copyright (c) 2022 Klaus Post. All rights reserved.
Copyright (c) 2015 Klaus Post, released under MIT License. See LICENSE file.
Copyright (c) 2022+ Klaus Post. All rights reserved.
Copyright (c) 2019+ Klaus Post. All rights reserved.
This package includes the excellent [`github.com/cespare/xxhash`](https://
github.com/cespare/xxhash) package Copyright (c) 2016 Caleb Spare.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2020+ Klaus Post. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
meta name="copyright" content="&copy; 2007 Cr dit Agricole"/>

-------- Dependencies Summary
github.com/klauspost/compress

-------- License used by Dependencies
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------

Files: gzhttp/*

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2016-2017 The New York Times Company

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------

Files: s2/cmd/internal/readahead/*
```

```
The MIT License (MIT)

Copyright (c) 2015 Klaus Post

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------------------
Files: snappy/*
Files: internal/snapref/*

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------

Files: s2/cmd/internal/filepathx/*

Copyright 2016 The filepathx Authors
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/redis/go-redis/v9
-------- Copyrights
Copyright (c) 2013 The github.com/redis/go-redis Authors.
Copyright 2001-2010 Georges Menie (www.menie.org)
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Camlistore Authors

-------- Dependencies Summary
github.com/redis/go-redis/v9

-------- License used by Dependencies
Copyright (c) 2013 The github.com/redis/go-redis Authors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
howett.net/plist
-------- Copyrights
```

```
Copyright (c) 2013, Dustin L. Howett. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

-------- Dependencies Summary
howett.net/plist

-------- License used by Dependencies
Copyright (c) 2013, Dustin L. Howett. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are
 those
of the authors and should not be interpreted as representing official
 policies,
either expressed or implied, of the FreeBSD Project.

--------------------------------------------------------------------------------
Parts of this package were made available under the license covering
the Go language and all attended core libraries. That license follows.
--------------------------------------------------------------------------------

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/pmezard/go-difflib
-------- Copyrights
Copyright (c) 2013, Patrick Mezard

-------- Dependencies Summary
github.com/pmezard/go-difflib

-------- License used by Dependencies
Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
    The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/go-zookeeper/zk
-------- Copyrights
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
Copyright 2012 Google Inc.

-------- Dependencies Summary
github.com/go-zookeeper/zk

-------- License used by Dependencies
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of the author nor the
  names of its contributors may be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/evanphx/json-patch
-------- Copyrights
Copyright (c) 2014, Evan Phoenix

-------- Dependencies Summary
github.com/evanphx/json-patch

-------- License used by Dependencies
Copyright (c) 2014, Evan Phoenix
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the Evan Phoenix nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
```

```
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/DataDog/go-tuf
-------- Copyrights
Copyright (c) 2014-2020 Prime Directive, Inc. All rights reserved.
Copyright (c) 2010, Justin Samuel and Justin Cappos.
Copyright (c) 2008, The Tor Project, Inc.

-------- Dependencies Summary
github.com/DataDog/go-tuf

-------- License used by Dependencies
Copyright (c) 2014-2020 Prime Directive, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Prime Directive, Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
mvdan.cc/xurls/v2
-------- Copyrights
Copyright (c) 2015, Daniel Martí <mvdan@mvdan.cc>
Copyright (c) 2015, Daniel Martí. All rights reserved.
Copyright (c) 2017, Shreyas Khare <skhare@rapid7.com>
Copyright (c) 2019, Daniel Martí <mvdan@mvdan.cc>
Copyright 2009 The Go Authors. All rights reserved.

-------- Dependencies Summary
mvdan.cc/xurls/v2

-------- License used by Dependencies
Copyright (c) 2015, Daniel Martí. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


------------------------ Dependencies Grouped by License ------------
-------- Dependency
github.com/oracle/oci-go-sdk
-------- Copyrights
Copyright (c) 2016, 2018, 2020, Oracle and/or its affiliates.
Copyright (c) 2016, 2018, 2020, Oracle and/or its affiliates.  All rights
 reserved.
Copyright (c) 2016, 2018, Oracle and/or its affiliates. All rights reserved.
-------- Notices
Copyright (c) 2016, 2018, 2020, Oracle and/or its affiliates.

-------- Dependencies Summary
github.com/oracle/oci-go-sdk

-------- License used by Dependencies
Copyright (c) 2016, 2018, 2020, Oracle and/or its affiliates.  All rights
 reserved.
This software is dual-licensed to you under the Universal Permissive License
 (UPL) 1.0 as shown at https://oss.oracle.com/licenses/upl
or Apache License 2.0 as shown at http://www.apache.org/licenses/
LICENSE-2.0. You may choose either license.
 ____________________________
The Universal Permissive License (UPL), Version 1.0
Copyright (c) 2016, 2018, Oracle and/or its affiliates. All rights reserved.

Subject to the condition set forth below, permission is hereby granted to
 any person obtaining a copy of this software, associated documentation
 and/or data (collectively the "Software"), free of charge and under any and
 all copyright rights in the Software, and any and all patent rights owned
 or freely licensable by each licensor hereunder covering either (i) the
 unmodified Software as contributed to or provided by such licensor, or (ii)
 the Larger Works (as defined below), to deal in both

(a) the Software, and
(b) any piece of software and/or hardware listed in the lrgrwrks.txt file
 if one is included with the Software (each a "Larger Work" to which the
 Software is contributed by such licensors),
```

```
without restriction, including without limitation the rights to copy, create
 derivative works of, display, perform, and distribute the Software and
 make, use, sell, offer for sale, import, export, have made, and have sold
 the Software and the Larger Work(s), and to sublicense the foregoing rights
 on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or
 at a minimum a reference to the UPL must be included in all copies or
 substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

The Apache Software License, Version 2.0
Copyright (c) 2016, 2018, Oracle and/or its affiliates. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License"); You may not
 use this product except in compliance with the License.  You may obtain a
 copy of the License at http://www.apache.org/licenses/LICENSE-2.0.  A copy
 of the license is also reproduced below.  Unless required by applicable
 law or agreed to in writing, software distributed under the License is
 distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express or implied.  See the License for the specific language
 governing permissions and  limitations under the License.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
```

```
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.
```

```
You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
go.elastic.co/fastjson
-------- Copyrights
Copyright 2018 Elasticsearch BV
Copyright (c) 2016 Mail.Ru Group

-------- Dependencies Summary
go.elastic.co/fastjson

-------- License used by Dependencies
Copyright 2018 Elasticsearch BV

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---

Copyright (c) 2016 Mail.Ru Group

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
sigs.k8s.io/json
-------- Copyrights
Copyright 2021 The Kubernetes Authors.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
```

```
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.

-------- Dependencies Summary
sigs.k8s.io/json

-------- License used by Dependencies
Files other than internal/golang/* licensed under:


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


------------------

internal/golang/* files licensed under:


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/davecgh/go-spew
```

```
-------- Copyrights
Copyright (c) 2012-2016 Dave Collins <dave@davec.name>
Copyright (c) 2015-2016 Dave Collins <dave@davec.name>
Copyright (c) 2013 Dave Collins <dave@davec.name>
Copyright (c) 2013-2016 Dave Collins <dave@davec.name>

-------- Dependencies Summary
github.com/davecgh/go-spew

-------- License used by Dependencies
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
cloud.google.com/go/compute/metadata
-------- Copyrights
Copyright 2022 Google LLC
Copyright 2018 Google LLC
Copyright 2021 Google LLC
Copyright 2016 Google LLC
Copyright 2014 Google LLC

-------- Dependency
github.com/Azure/go-autorest/autorest
-------- Copyrights
Copyright 2017 Microsoft Corporation
Copyright 2015 Microsoft Corporation

-------- Dependency
github.com/Azure/go-autorest/autorest/adal
-------- Copyrights
Copyright 2017 Microsoft Corporation
Copyright 2015 Microsoft Corporation

-------- Dependency
github.com/Azure/go-autorest/autorest/azure/auth
-------- Copyrights
Copyright 2017 Microsoft Corporation
Copyright 2015 Microsoft Corporation

-------- Dependency
github.com/Azure/go-autorest/autorest/azure/cli
-------- Copyrights
Copyright 2017 Microsoft Corporation
Copyright 2015 Microsoft Corporation

-------- Dependency
github.com/Azure/go-autorest/autorest/date
-------- Copyrights
```

```
Copyright 2017 Microsoft Corporation
Copyright 2015 Microsoft Corporation

-------- Dependency
github.com/Azure/go-autorest/autorest/to
-------- Copyrights
Copyright 2017 Microsoft Corporation
Copyright 2015 Microsoft Corporation

-------- Dependency
github.com/Azure/go-autorest/logger
-------- Copyrights
Copyright 2017 Microsoft Corporation
Copyright 2015 Microsoft Corporation

-------- Dependency
github.com/Azure/go-autorest/tracing
-------- Copyrights
Copyright 2017 Microsoft Corporation
Copyright 2018 Microsoft Corporation
Copyright 2015 Microsoft Corporation

-------- Dependency
github.com/DataDog/datadog-agent/pkg/obfuscate
-------- Copyrights
Copyright 2016-present Datadog, Inc.
Copyright 2010 The Go Authors. All rights reserved.

-------- Dependency
github.com/DataDog/datadog-agent/pkg/remoteconfig/state
-------- Copyrights
Copyright 2022-present Datadog, Inc.
Copyright 2023-present Datadog, Inc.
Copyright 2016-present Datadog, Inc.

-------- Dependency
github.com/DataDog/sketches-go
-------- Copyrights
Copyright 2021 Datadog, Inc.
Copyright 2021 DataDog, Inc.
-------- Notices
Datadog sketches-go
Copyright 2021 Datadog, Inc.

This product includes software developed at Datadog (https://
www.datadoghq.com/).


-------- Dependency
github.com/ExpediaDotCom/haystack-client-go
-------- Copyrights
Copyright 2018 Expedia Group.
Copyright [2018] Expedia Group.

-------- Dependency
github.com/Masterminds/goutils
-------- Copyrights
Copyright 2014 Alexander Okoli

-------- Dependency
github.com/OpenDNS/vegadns2client
-------- Copyrights
Copyright 2018, Cisco Systems, Inc.
```

```
-------- Dependency
github.com/akamai/AkamaiOPEN-edgegrid-golang
-------- Copyrights
Copyright 2018. Akamai Technologies, Inc

-------- Dependency
github.com/aliyun/alibaba-cloud-sdk-go
-------- Copyrights
Copyright (c) 2009-present, Alibaba Cloud All rights reserved.

-------- Dependency
github.com/aws/aws-sdk-go
-------- Copyrights
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2017 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Portions Licensed under the MIT License. Copyright (c) 2016 Carl Jackson
-------- Notices
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.


-------- Dependency
github.com/aws/aws-sdk-go-v2
-------- Copyrights
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
-------- Notices
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.


-------- Dependency
github.com/aws/aws-sdk-go-v2/config
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/credentials
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/feature/ec2/imds
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/internal/configsources
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/internal/endpoints/v2
-------- Copyrights
  (no copyright notices found)

-------- Dependency
```

```
github.com/aws/aws-sdk-go-v2/internal/ini
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/service/internal/accept-encoding
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/service/internal/presigned-url
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/service/lightsail
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/service/route53
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/service/sso
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/service/ssooidc
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/aws-sdk-go-v2/service/sts
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/aws/smithy-go
-------- Copyrights
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.
-------- Notices
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.


-------- Dependency
github.com/containous/go-http-auth
-------- Copyrights
Copyright 2012-2013 Lev Shamardin

-------- Dependency
github.com/containous/minheap
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/coreos/go-semver
```

```
-------- Copyrights
Copyright 2018 CoreOS, Inc
Copyright 2013-2015 CoreOS, Inc.
-------- Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).


-------- Dependency
github.com/coreos/go-systemd
-------- Copyrights
Copyright 2018 CoreOS, Inc
Copyright 2018 CoreOS, Inc.
Copyright 2015 CoreOS, Inc.
Copyright 2016 CoreOS, Inc.
Copyright 2014 Docker, Inc.
Copyright 2015-2018 CoreOS, Inc.
Copyright 2019 CoreOS, Inc.
Copyright 2015 RedHat, Inc.
Copyright 2015 CoreOS Inc.
Copyright 2015, 2018 CoreOS, Inc.
-------- Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).


-------- Dependency
github.com/coreos/go-systemd/v22
-------- Copyrights
Copyright 2018 CoreOS, Inc
Copyright 2018 CoreOS, Inc.
Copyright 2015 CoreOS, Inc.
Copyright 2016 CoreOS, Inc.
Copyright 2014 Docker, Inc.
Copyright 2015-2018 CoreOS, Inc.
Copyright 2022 CoreOS, Inc.
Copyright 2015 RedHat, Inc.
Copyright 2019 CoreOS, Inc.
Copyright 2015 CoreOS Inc.
Copyright 2020 CoreOS, Inc.
Copyright 2015, 2018 CoreOS, Inc.
-------- Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).


-------- Dependency
github.com/deepmap/oapi-codegen
-------- Copyrights
Copyright 2019 DeepMap, Inc.
Copyright 2021 DeepMap, Inc.

-------- Dependency
github.com/dimchansky/utfbom
-------- Copyrights
```

```
Copyright (c) 2018-2020, Dmitrij Koniajev (dimchansky@gmail.com)

-------- Dependency
github.com/docker/cli
-------- Copyrights
Copyright 2012-2017 Docker, Inc.
Copyright 2013-2017 Docker, Inc.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
-------- Notices
Docker
Copyright 2012-2017 Docker, Inc.

This product includes software developed at Docker, Inc. (https://
www.docker.com).

This product contains software (https://github.com/creack/pty) developed
by Keith Rarick, licensed under the MIT License.

The following is courtesy of our legal counsel:


Use and transfer of Docker may be subject to certain restrictions by the
United States and other governments.
It is your responsibility to ensure that your use and/or transfer does not
violate applicable laws.

For more information, please see https://www.bis.doc.gov

See also https://www.apache.org/dev/crypto.html and/or seek legal counsel.


-------- Dependency
github.com/docker/distribution
-------- Copyrights
Copyright (c) 2013 Damien Le Berrigaud and Nick Wade

-------- Dependency
github.com/docker/docker
-------- Copyrights
Copyright 2012-2017 Docker, Inc.
Copyright 2013-2018 Docker, Inc.
Copyright (c) 2015 John Howard (Microsoft)
Copyright The containerd Authors.
Copyright (c) 2012-2018 Mat Ryer and Tyler Bunnell
Copyright (c) 2009 The Go Authors. All rights reserved.
Code and documentation copyright 2015 Docker, inc. Code released under the
 Apache 2.0 license. Docs released under Creative commons.
Copyright (C) 1999-2008 Novell Inc.
Copyright 2009-2012 Canonical Ltd.
Copyright 2009-2018 Canonical Ltd.
-------- Notices
Docker
Copyright 2012-2017 Docker, Inc.

This product includes software developed at Docker, Inc. (https://
www.docker.com).

This product contains software (https://github.com/creack/pty) developed
by Keith Rarick, licensed under the MIT License.

The following is courtesy of our legal counsel:
```

```
Use and transfer of Docker may be subject to certain restrictions by the
United States and other governments.
It is your responsibility to ensure that your use and/or transfer does not
violate applicable laws.

For more information, please see https://www.bis.doc.gov

See also https://www.apache.org/dev/crypto.html and/or seek legal counsel.


-------- Dependency
github.com/docker/go-connections
-------- Copyrights
Copyright 2015 Docker, Inc.

-------- Dependency
github.com/docker/go-units
-------- Copyrights
Copyright © 2015 Docker, Inc.
Copyright 2015 Docker, Inc.

-------- Dependency
github.com/donovanhide/eventsource
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/elastic/go-sysinfo
-------- Copyrights
Copyright 2017-2019 Elasticsearch B.V.
-------- Notices
Elastic go-sysinfo
Copyright 2017-2019 Elasticsearch B.V.

This product includes software developed at
Elasticsearch, B.V. (https://www.elastic.co/).


-------- Dependency
github.com/exoscale/egoscale
-------- Copyrights
Copyright 2014 exoscale(tm)

-------- Dependency
github.com/gambol99/go-marathon
-------- Copyrights
Copyright 2014 The go-marathon Authors All rights reserved.
Copyright 2017 The go-marathon Authors All rights reserved.
Copyright 2015 The go-marathon Authors All rights reserved.
Copyright 2016 The go-marathon Authors All rights reserved.

-------- Dependency
github.com/go-jose/go-jose/v3
-------- Copyrights
Copyright 2014 Square Inc.
Copyright 2018 Square Inc.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2017 Square Inc.
Copyright 2016 Zbigniew Mandziejewicz
Copyright 2016 Square, Inc.
Copyright 2010 The Go Authors. All rights reserved.
```

```
-------- Dependency
github.com/go-logr/logr
-------- Copyrights
Copyright 2020 The logr Authors.
Copyright 2021 The logr Authors.
Copyright 2022 The logr Authors.
Copyright 2019 The logr Authors.
Copyright 2023 The logr Authors.

-------- Dependency
github.com/go-openapi/jsonpointer
-------- Copyrights
Copyright 2013 sigu-399 ( https://github.com/sigu-399 )

-------- Dependency
github.com/go-openapi/jsonreference
-------- Copyrights
Copyright 2013 sigu-399 ( https://github.com/sigu-399 )

-------- Dependency
github.com/go-openapi/swag
-------- Copyrights
Copyright 2015 go-swagger maintainers

-------- Dependency
github.com/golang/groupcache
-------- Copyrights
Copyright 2013 Google Inc.
Copyright 2012 Google Inc.

-------- Dependency
github.com/google/gnostic
-------- Copyrights
Copyright 2017 Google LLC. All Rights Reserved.
Copyright 2017-2020, Google LLC.
Copyright 2020 Google LLC. All Rights Reserved.
Copyright 2018 Google LLC. All Rights Reserved.
Copyright 2019 Google LLC. All Rights Reserved.
Copyright 2020 Google LLC. All Rights Reserved.\n" +

-------- Dependency
github.com/google/gofuzz
-------- Copyrights
Copyright 2014 Google Inc. All rights reserved.

-------- Dependency
github.com/google/s2a-go
-------- Copyrights
Copyright 2022 Google LLC
Copyright 2021 Google LLC
Copyright 2023 Google LLC

-------- Dependency
github.com/googleapis/enterprise-certificate-proxy
-------- Copyrights
Copyright 2022 Google LLC.
Copyright 2023 Google LLC.

-------- Dependency
github.com/gophercloud/gophercloud
-------- Copyrights
Copyright 2012-2013 Rackspace, Inc.
```

```
-------- Dependency
github.com/gophercloud/utils
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/gravitational/trace
-------- Copyrights
Copyright 2015 Gravitational, Inc.
Copyright 2020 Gravitational, Inc.
Copyright 2021 Gravitational, Inc.
Copyright 2016 Gravitational, Inc.
Copyright 2015-2019 Gravitational, Inc.

-------- Dependency
github.com/hashicorp/cronexpr
-------- Copyrights
Copyright 2013 Raymond Hill

-------- Dependency
github.com/iij/doapi
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/infobloxopen/infoblox-go-client
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/jmespath/go-jmespath
-------- Copyrights
Copyright 2015 James Saryerwinnie

-------- Dependency
github.com/jonboulle/clockwork
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/kvtools/consul
-------- Copyrights
Copyright 2014-2016 Docker, Inc.
Copyright 2021-2022 Valkeyrie authors

-------- Dependency
github.com/kvtools/etcdv3
-------- Copyrights
Copyright 2014-2016 Docker, Inc.
Copyright 2021-2022 Valkeyrie authors

-------- Dependency
github.com/kvtools/redis
-------- Copyrights
Copyright 2014-2016 Docker, Inc.
Copyright 2021-2022 Valkeyrie authors

-------- Dependency
github.com/kvtools/valkeyrie
-------- Copyrights
Copyright and License
Copyright 2014-2016 Docker, Inc.
Copyright 2021-2022 Valkeyrie authors
```

```
-------- Dependency
github.com/kvtools/zookeeper
-------- Copyrights
Copyright 2014-2016 Docker, Inc.
Copyright 2021-2022 Valkeyrie authors

-------- Dependency
github.com/kylelemons/godebug
-------- Copyrights
Copyright 2013 Google Inc.  All rights reserved.

-------- Dependency
github.com/liquidweb/liquidweb-cli
-------- Copyrights
Copyright © 2019 LiquidWeb
Copyright © LiquidWeb

-------- Dependency
github.com/liquidweb/liquidweb-go
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/looplab/fsm
-------- Copyrights
Copyright (c) 2013 - Max Persson <max@looplab.se>

-------- Dependency
github.com/mailgun/multibuf
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/mailgun/timetools
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/mailgun/ttlmap
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/matttproud/golang_protobuf_extensions
-------- Copyrights
Copyright 2012 Matt T. Proud (matt.proud@gmail.com)
Copyright 2013 Matt T. Proud
Copyright 2016 Matt T. Proud
-------- Notices
Copyright 2012 Matt T. Proud (matt.proud@gmail.com)


-------- Dependency
github.com/modern-go/concurrent
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/modern-go/reflect2
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/opencontainers/go-digest
```

```
-------- Copyrights
Copyright 2019, 2020 OCI Contributors
Copyright 2017 Docker, Inc.
Copyright © 2019, 2020 OCI Contributors
Copyright © 2016 Docker, Inc.
Copyright 2016 Docker, Inc.
Copyright 2020, 2020 OCI Contributors

-------- Dependency
github.com/opencontainers/image-spec
-------- Copyrights
Copyright 2017 The Linux Foundation
Copyright 2016 The Linux Foundation
Copyright (C) 2004, 2006 The Linux Foundation and its contributors.
Copyright 2016 The Linux Foundation.
Copyright 2016-2022 The Linux Foundation
Copyright 2018 The Linux Foundation

-------- Dependency
github.com/opentracing-contrib/go-observer
-------- Copyrights
Copyright (c) 2017 opentracing-contrib

-------- Dependency
github.com/opentracing/opentracing-go
-------- Copyrights
Copyright 2016 The OpenTracing Authors

-------- Dependency
github.com/openzipkin-contrib/zipkin-go-opentracing
-------- Copyrights
Copyright 2019 The OpenZipkin Authors
Copyright 2017 The OpenZipkin Authors

-------- Dependency
github.com/openzipkin/zipkin-go
-------- Copyrights
Copyright 2019 The OpenZipkin Authors
Copyright 2017 The OpenZipkin Authors

-------- Dependency
github.com/outcaste-io/ristretto
-------- Copyrights
Copyright 2019 Dgraph Labs, Inc. and Contributors
Copyright 2020 Dgraph Labs, Inc. and Contributors
Copyright (c) 2014 Andreas Briese, eduToolbox@Bri-C GmbH, Sarstedt
Copyright (c) 2019 Ewan Chou
Copyright 2020 The LevelDB-Go and Pebble Authors. All rights reserved. Use
Copyright 2021 Dgraph Labs, Inc. and Contributors
Copyright 2023 Dgraph Labs, Inc. and Contributors

-------- Dependency
github.com/pires/go-proxyproto
-------- Copyrights
Copyright 2016 Paulo Pires
Copyright 2015 The Go Authors. All rights reserved.

-------- Dependency
github.com/pquerna/otp
-------- Copyrights
Copyright (c) 2014, Paul Querna
Copyright 2014 Paul Querna
-------- Notices
otp
```

```
Copyright (c) 2014, Paul Querna

This product includes software developed by
Paul Querna (http://paul.querna.org/).


-------- Dependency
github.com/prometheus/client_golang
-------- Copyrights
Copyright 2012-2015 The Prometheus Authors
Copyright 2013-2015 Blake Mizerany, Björn Rabenstein
Copyright 2010 The Go Authors
Copyright 2013 Matt T. Proud
Copyright 2018 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2022 The Prometheus Authors
Copyright 2021 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2014 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright (c) 2015 Björn Rabenstein
Copyright 2017 The Prometheus Authors
Copyright (c) 2013, The Prometheus Authors
-------- Notices
Prometheus instrumentation library for Go applications
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


The following components are included in this product:

perks - a fork of https://github.com/bmizerany/perks
https://github.com/beorn7/perks
Copyright 2013-2015 Blake Mizerany, Björn Rabenstein
See https://github.com/beorn7/perks/blob/master/README.md for license
 details.

Go support for Protocol Buffers - Google's data interchange format
http://github.com/golang/protobuf/
Copyright 2010 The Go Authors
See source code for license details.

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0


-------- Dependency
github.com/prometheus/client_model
-------- Copyrights
Copyright 2012-2015 The Prometheus Authors
Copyright 2013 Prometheus Team
-------- Notices
Data model artifacts for Prometheus.
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).
```

```
-------- Dependency
github.com/prometheus/common
-------- Copyrights
Copyright 2015 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2021 The Prometheus Authors
Copyright 2020 The Prometheus-operator Authors
Copyright 2022 The Prometheus Authors
Copyright 2014 The Prometheus Authors
Copyright (c) 2011, Open Knowledge Foundation Ltd.
Copyright 2019 The Prometheus Authors
Copyright 2013 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2017 The Prometheus Authors
-------- Notices
Common libraries shared by Prometheus Go components.
Copyright 2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


-------- Dependency
github.com/prometheus/procfs
-------- Copyrights
Copyright 2014-2015 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2021 The Prometheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2022 The Prometheus Authors
Copyright 2014 Prometheus Team
Copyright 2017 Prometheus Team
-------- Notices
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

Copyright 2014-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


-------- Dependency
github.com/rancher/go-rancher-metadata
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/sacloud/api-client-go
-------- Copyrights
`sacloud/api-client-go` Copyright (C) 2022-2023 [The sacloud/api-client-go
 Authors](AUTHORS).
Copyright 2022-2023 The sacloud/api-client-go Authors
`sacloud/makefile` Copyright (C) 2022 The sacloud/makefile Authors.

-------- Dependency
github.com/sacloud/go-http
-------- Copyrights
`go-http` Copyright (C) 2021-2023 The sacloud/go-http authors.
Copyright 2021-2023 The sacloud/go-http authors
`sacloud/makefile` Copyright (C) 2022 The sacloud/makefile Authors.
```

```
-------- Dependency
github.com/sacloud/iaas-api-go
-------- Copyrights
`sacloud/iaas-api-go` Copyright (C) 2022-2023 [The sacloud/iaas-api-go
 Authors](AUTHORS).
Copyright 2022-2023 The sacloud/iaas-api-go Authors
Copyright 2016-2022 The sacloud/iaas-api-go Authors
`sacloud/makefile` Copyright (C) 2022 The sacloud/makefile Authors.

-------- Dependency
github.com/sacloud/packages-go
-------- Copyrights
`sacloud/packages-go` Copyright (C) 2022-2023 [The sacloud/packages-go
 Authors](AUTHORS).
Copyright 2022-2023 The sacloud/packages-go Authors
`sacloud/makefile` Copyright (C) 2022 The sacloud/makefile Authors.
Copyright (c) 2015 Martin Atkins

-------- Dependency
github.com/scaleway/scaleway-sdk-go
-------- Copyrights
Copyright 2019 Scaleway.

-------- Dependency
github.com/softlayer/softlayer-go
-------- Copyrights
Copyright 2016 IBM Corp.
Copyright (c) 2013 Vaughan Newton
Copyright 2019 IBM Corp.
This software is Copyright (c) 2016 IBM Corp. See the bundled LICENSE file
 for more information.

-------- Dependency
github.com/tencentcloud/tencentcloud-sdk-go/tencentcloud/common
-------- Copyrights
Copyright (c) 2017-2018 Tencent Ltd.
Copyright (c) 2018 Tencent Ltd.

-------- Dependency
github.com/tencentcloud/tencentcloud-sdk-go/tencentcloud/dnspod
-------- Copyrights
Copyright (c) 2017-2018 Tencent Ltd.
Copyright (c) 2017-2018 THL A29 Limited, a Tencent company. All Rights
 Reserved.

-------- Dependency
github.com/traefik/paerser
-------- Copyrights
Copyright 2022 Traefik Labs

-------- Dependency
github.com/traefik/yaegi
-------- Copyrights
Copyright 2019 Containous SAS
Copyright 2020 Traefik Labs SAS

-------- Dependency
github.com/uber/jaeger-client-go
-------- Copyrights
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2019 The Jaeger Authors.
Copyright (c) 2018 The Jaeger Authors.
Copyright (c) 2020 The Jaeger Authors.
```

```
Copyright (c) 2017-2018 Uber Technologies, Inc.
Copyright (c) 2019 Uber Technologies, Inc.
Copyright (c) 2019 The Jaeger Authors
Copyright (c) 2017 The OpenTracing Authors
Copyright (c) 2016 Bas van Beek
Copyright (c) 2016 Uber Technologies, Inc.

-------- Dependency
github.com/uber/jaeger-lib
-------- Copyrights
Copyright (c) 2019 The Jaeger Authors.
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2018 Uber Technologies, Inc.
Copyright (c) 2018 The Jaeger Authors
Copyright (c) 2017 The Jaeger Authors.

-------- Dependency
github.com/ultradns/ultradns-go-sdk
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/vinyldns/go-vinyldns
-------- Copyrights
Copyright 2018 Comcast Cable Communications Management, LLC
-------- Notices
go-vinyldns

Copyright 2018 Comcast Cable Communications Management, LLC

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This product includes software developed at Comcast (http://
www.comcast.com/).


-------- Dependency
github.com/vulcand/oxy/v2
-------- Copyrights
Copyright 2017 Mailgun Technologies Inc

-------- Dependency
github.com/vulcand/predicate
-------- Copyrights
Copyright 2014-2018 Vulcand Authors
Copyright 2016 Vulcand Authors

-------- Dependency
go.elastic.co/apm
-------- Copyrights
Copyright 2018-2019 Elasticsearch B.V.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2018 The Gorilla Authors. All rights reserved.
```

```
Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany
Copyright 2018 Elasticsearch BV
Copyright 2011 The Go Authors. All rights reserved.
-------- Notices
Elastic APM Go Agent
Copyright 2018-2019 Elasticsearch B.V.

This product includes software developed at Elasticsearch, B.V. (https://
www.elastic.co/).

========================================
Third party code included by the Go Agent
========================================

-------------------------------------------------------------------------------------
This project copies code from the Go standard library (https://github.com/
golang/go)
-------------------------------------------------------------------------------------

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------
This project copies code from Gorilla Mux (https://github.com/gorilla/mux)
-------------------------------------------------------------------------

Copyright (c) 2012-2018 The Gorilla Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
```

```
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------
This project copies code from pq (https://github.com/lib/pq)
---------------------------------------------------------------

Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


-------- Dependency
go.elastic.co/apm/module/apmhttp
-------- Copyrights
Copyright 2018 Elasticsearch BV

-------- Dependency
go.elastic.co/apm/module/apmot
-------- Copyrights
Copyright 2018 Elasticsearch BV

-------- Dependency
go.etcd.io/etcd/api/v3
-------- Copyrights
Copyright 2020 The etcd Authors
Copyright 2016 The etcd Authors
Copyright 2018 The etcd Authors
Copyright 2015 The etcd Authors

-------- Dependency
go.etcd.io/etcd/client/pkg/v3
-------- Copyrights
Copyright 2018 The etcd Authors
```

```
Copyright 2016 The etcd Authors
Copyright 2017 The etcd Authors
Copyright 2022 The etcd Authors
Copyright 2015 The etcd Authors
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2019 The etcd Authors
Copyright 2021 The etcd Authors
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2013 The etcd Authors

-------- Dependency
go.etcd.io/etcd/client/v3
-------- Copyrights
Copyright 2016 The etcd Authors
Copyright 2017 The etcd Authors
Copyright 2020 The etcd Authors
Copyright 2019 The etcd Authors
Copyright 2021 The etcd Authors
Copyright 2018 The etcd Authors
Copyright 2015 The etcd Authors

-------- Dependency
go.opencensus.io
-------- Copyrights
Copyright 2017, OpenCensus Authors
Copyright 2018, OpenCensus Authors
Copyright 2019, OpenCensus Authors
Copyright 2020, OpenCensus Authors

-------- Dependency
google.golang.org/appengine
-------- Copyrights
Copyright 2015 Google Inc. All rights reserved.
Copyright 2014 Google Inc. All rights reserved.
Copyright 2013 Google Inc. All rights reserved.
Copyright 2011 Google Inc. All rights reserved.
Copyright 2016 Google Inc. All rights reserved.
Copyright 2012 Google Inc. All rights reserved.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2019 Google Inc. All rights reserved.
Copyright 2019 Google Inc. All Rights Reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2011 Google Inc. All Rights Reserved.
Copyright 2012 Google Inc. All Rights Reserved.
Copyright 2018 Google LLC. All rights reserved.
Copyright 2016 Google Inc. All Rights Reserved.

-------- Dependency
google.golang.org/genproto
-------- Copyrights
Copyright 2020 Google LLC
Copyright 2021 Google LLC
Copyright 2020 Google LLC.
Copyright 2022 Google LLC
Copyright 2017 Google Inc.
Copyright 2023 Google LLC
Copyright 2018 Google Inc.
Copyright 2019 Google LLC.
Copyright 2021 Google LLC.
Copyright 2018 The Grafeas Authors. All rights reserved.
Copyright 2019 The Grafeas Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2021 The Grafeas Authors. All rights reserved.
Copyright 2023 The Grafeas Authors. All rights reserved.
```

```
Copyright (c) 2015, Google Inc.

-------- Dependency
google.golang.org/genproto/googleapis/api
-------- Copyrights
Copyright 2015 Google LLC
Copyright 2023 Google LLC
Copyright 2022 Google LLC
Copyright 2019 Google LLC.
Copyright 2016 Google LLC

-------- Dependency
google.golang.org/genproto/googleapis/rpc
-------- Copyrights
Copyright 2023 Google LLC
Copyright 2022 Google LLC

-------- Dependency
google.golang.org/grpc
-------- Copyrights
Copyright 2014 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2020 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
-------- Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


-------- Dependency
gopkg.in/ini.v1
-------- Copyrights
Copyright 2019 Unknwon
Copyright 2016 Unknwon
Copyright 2017 Unknwon
Copyright 2014 Unknwon
Copyright 2015 Unknwon

-------- Dependency
gopkg.in/ns1/ns1-go.v2
-------- Copyrights
  (no copyright notices found)
```

```
-------- Dependency
gopkg.in/yaml.v2
-------- Copyrights
Copyright 2011-2016 Canonical Ltd.
Copyright (c) 2006 Kirill Simonov
-------- Notices
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


-------- Dependency
k8s.io/api
-------- Copyrights
Copyright 2019 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.

-------- Dependency
k8s.io/apiextensions-apiserver
-------- Copyrights
Copyright 2019 The Kubernetes Authors.
Copyright The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.

-------- Dependency
k8s.io/apimachinery
-------- Copyrights
Copyright 2021 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2014 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright The Kubernetes Authors.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
```

```
-------- Dependency
k8s.io/client-go
-------- Copyrights
Copyright The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2014 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright (c) 2009 The Go Authors. All rights reserved.

-------- Dependency
k8s.io/klog/v2
-------- Copyrights
Copyright 2022 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2013 Google Inc. All Rights Reserved.
Copyright 2020 The Kubernetes Authors.
Copyright 2014 The Kubernetes Authors.
Copyright 2023 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 Intel Coporation.

-------- Dependency
k8s.io/kube-openapi
-------- Copyrights
Copyright 2016 The Kubernetes Authors.
Copyright The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright 2020 The Kubernetes Authors.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2015 go-swagger maintainers
Copyright 2017 go-swagger maintainers
Copyright 2019 The Kubernetes Authors.
Copyright 2021 The Go Authors. All rights reserved.
Copyright (C) MongoDB, Inc. 2017-present.

-------- Dependency
k8s.io/utils
-------- Copyrights
Copyright 2018 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2014 The Kubernetes Authors.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2016 The Kubernetes Authors.
Copyright 2010 The Go Authors. All rights reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2019 The Kubernetes Authors.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 Google Inc.
```

```
-------- Dependency
sigs.k8s.io/gateway-api
-------- Copyrights
Copyright 2020 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors
Copyright YEAR The Kubernetes Authors.

-------- Dependency
sigs.k8s.io/structured-merge-diff/v4
-------- Copyrights
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.

-------- Dependencies Summary
cloud.google.com/go/compute/metadata
github.com/Azure/go-autorest/autorest
github.com/Azure/go-autorest/autorest/adal
github.com/Azure/go-autorest/autorest/azure/auth
github.com/Azure/go-autorest/autorest/azure/cli
github.com/Azure/go-autorest/autorest/date
github.com/Azure/go-autorest/autorest/to
github.com/Azure/go-autorest/logger
github.com/Azure/go-autorest/tracing
github.com/DataDog/datadog-agent/pkg/obfuscate
github.com/DataDog/datadog-agent/pkg/remoteconfig/state
github.com/DataDog/sketches-go
github.com/ExpediaDotCom/haystack-client-go
github.com/Masterminds/goutils
github.com/OpenDNS/vegadns2client
github.com/akamai/AkamaiOPEN-edgegrid-golang
github.com/aliyun/alibaba-cloud-sdk-go
github.com/aws/aws-sdk-go
github.com/aws/aws-sdk-go-v2
github.com/aws/aws-sdk-go-v2/config
github.com/aws/aws-sdk-go-v2/credentials
github.com/aws/aws-sdk-go-v2/feature/ec2/imds
github.com/aws/aws-sdk-go-v2/internal/configsources
github.com/aws/aws-sdk-go-v2/internal/endpoints/v2
github.com/aws/aws-sdk-go-v2/internal/ini
github.com/aws/aws-sdk-go-v2/service/internal/accept-encoding
github.com/aws/aws-sdk-go-v2/service/internal/presigned-url
github.com/aws/aws-sdk-go-v2/service/lightsail
github.com/aws/aws-sdk-go-v2/service/route53
github.com/aws/aws-sdk-go-v2/service/sso
github.com/aws/aws-sdk-go-v2/service/ssooidc
github.com/aws/aws-sdk-go-v2/service/sts
github.com/aws/smithy-go
github.com/containous/go-http-auth
github.com/containous/minheap
github.com/coreos/go-semver
github.com/coreos/go-systemd
github.com/coreos/go-systemd/v22
github.com/deepmap/oapi-codegen
github.com/dimchansky/utfbom
github.com/docker/cli
github.com/docker/distribution
github.com/docker/docker
github.com/docker/go-connections
github.com/docker/go-units
github.com/donovanhide/eventsource
```

```
github.com/elastic/go-sysinfo
github.com/exoscale/egoscale
github.com/gambol99/go-marathon
github.com/go-jose/go-jose/v3
github.com/go-logr/logr
github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
github.com/go-openapi/swag
github.com/golang/groupcache
github.com/google/gnostic
github.com/google/gofuzz
github.com/google/s2a-go
github.com/googleapis/enterprise-certificate-proxy
github.com/gophercloud/gophercloud
github.com/gophercloud/utils
github.com/gravitational/trace
github.com/hashicorp/cronexpr
github.com/iij/doapi
github.com/infobloxopen/infoblox-go-client
github.com/jmespath/go-jmespath
github.com/jonboulle/clockwork
github.com/kvtools/consul
github.com/kvtools/etcdv3
github.com/kvtools/redis
github.com/kvtools/valkeyrie
github.com/kvtools/zookeeper
github.com/kylelemons/godebug
github.com/liquidweb/liquidweb-cli
github.com/liquidweb/liquidweb-go
github.com/looplab/fsm
github.com/mailgun/multibuf
github.com/mailgun/timetools
github.com/mailgun/ttlmap
github.com/matttproud/golang_protobuf_extensions
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/opencontainers/go-digest
github.com/opencontainers/image-spec
github.com/opentracing-contrib/go-observer
github.com/opentracing/opentracing-go
github.com/openzipkin-contrib/zipkin-go-opentracing
github.com/openzipkin/zipkin-go
github.com/outcaste-io/ristretto
github.com/pires/go-proxyproto
github.com/pquerna/otp
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/procfs
github.com/rancher/go-rancher-metadata
github.com/sacloud/api-client-go
github.com/sacloud/go-http
github.com/sacloud/iaas-api-go
github.com/sacloud/packages-go
github.com/scaleway/scaleway-sdk-go
github.com/softlayer/softlayer-go
github.com/tencentcloud/tencentcloud-sdk-go/tencentcloud/common
github.com/tencentcloud/tencentcloud-sdk-go/tencentcloud/dnspod
github.com/traefik/paerser
github.com/traefik/yaegi
github.com/uber/jaeger-client-go
github.com/uber/jaeger-lib
github.com/ultradns/ultradns-go-sdk
github.com/vinyldns/go-vinyldns
```

```
github.com/vulcand/oxy/v2
github.com/vulcand/predicate
go.elastic.co/apm
go.elastic.co/apm/module/apmhttp
go.elastic.co/apm/module/apmot
go.etcd.io/etcd/api/v3
go.etcd.io/etcd/client/pkg/v3
go.etcd.io/etcd/client/v3
go.opencensus.io
google.golang.org/appengine
google.golang.org/genproto
google.golang.org/genproto/googleapis/api
google.golang.org/genproto/googleapis/rpc
google.golang.org/grpc
gopkg.in/ini.v1
gopkg.in/ns1/ns1-go.v2
gopkg.in/yaml.v2
k8s.io/api
k8s.io/apiextensions-apiserver
k8s.io/apimachinery
k8s.io/client-go
k8s.io/klog/v2
k8s.io/kube-openapi
k8s.io/utils
sigs.k8s.io/gateway-api
sigs.k8s.io/structured-merge-diff/v4

-------- License used by Dependencies
SPDX:Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/gorilla/websocket
-------- Copyrights
Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.
Copyright 2014 The Gorilla WebSocket Authors. All rights reserved.
Copyright 2015 The Gorilla WebSocket Authors. All rights reserved.
Copyright 2017 The Gorilla WebSocket Authors. All rights reserved.
Copyright 2013 The Gorilla WebSocket Authors. All rights reserved.
Copyright 2016 The Gorilla WebSocket Authors. All rights reserved.  Use of
Copyright 2019 The Gorilla WebSocket Authors. All rights reserved.
Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>

-------- Dependency
github.com/pkg/browser
-------- Copyrights
Copyright (c) 2014, Dave Cheney <dave@cheney.net>

-------- Dependency
github.com/pkg/errors
-------- Copyrights
Copyright (c) 2015, Dave Cheney <dave@cheney.net>

-------- Dependencies Summary
github.com/gorilla/websocket
github.com/pkg/browser
github.com/pkg/errors

-------- License used by Dependencies
SPDX:BSD-2-Clause
Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following conditions
 are
met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
```

```
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/cloudflare/cloudflare-go
-------- Copyrights
Copyright (c) 2015-2022, Cloudflare. All rights reserved.

-------- Dependency
github.com/miekg/dns
-------- Copyrights
Copyright (c) 2009, The Go Authors. Extensions copyright (c) 2011, Miek
 Gieben.

-------- Dependency
github.com/ovh/go-ovh
-------- Copyrights
Copyright (c) 2015-2023, OVH SAS

-------- Dependencies Summary
github.com/cloudflare/cloudflare-go
github.com/miekg/dns
github.com/ovh/go-ovh

-------- License used by Dependencies
SPDX:BSD-3-Clause
Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following conditions
 are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/containous/mux
-------- Copyrights
```

```
Copyright 2012 The Gorilla Authors. All rights reserved.
Copyright (c) 2012 Rodrigo Moraes. All rights reserved.
Copyright 2011 Gorilla Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.

-------- Dependency
github.com/fsnotify/fsnotify
-------- Copyrights
Copyright © 2012 The Go Authors. All rights reserved.

-------- Dependency
github.com/gogo/protobuf
-------- Copyrights
Copyright (c) 2013, The GoGo Authors. All rights reserved.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright (c) 2015, The GoGo Authors. All rights reserved.
Copyright 2016 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors.
Copyright (c) 2018, The GoGo Authors. All rights reserved.
Copyright (c) 2016, The GoGo Authors. All rights reserved.
Copyright 2018 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors.  All rights reserved.
Copyright (c) 2019, The GoGo Authors. All rights reserved.
Copyright (c) 2017, The GoGo Authors. All rights reserved.
Copyright (c) 2015, The GoGo Authors.  rights reserved.

-------- Dependency
github.com/golang/protobuf
-------- Copyrights
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.

-------- Dependency
github.com/google/go-cmp
-------- Copyrights
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2018, The Go Authors. All rights reserved.
Copyright 2017, The Go Authors. All rights reserved.
Copyright 2020, The Go Authors. All rights reserved.
Copyright 2019, The Go Authors. All rights reserved.

-------- Dependency
github.com/google/go-github/v28
-------- Copyrights
Copyright (c) 2013 The go-github AUTHORS. All rights reserved.
Copyright 2015 The go-github AUTHORS. All rights reserved.
Copyright 2017 The go-github AUTHORS. All rights reserved.
Copyright 2018 The go-github AUTHORS. All rights reserved.
Copyright 2019 The go-github AUTHORS. All rights reserved.
Copyright 2013 The go-github AUTHORS. All rights reserved.
```

```
Copyright 2016 The go-github AUTHORS. All rights reserved.
Copyright 2014 The go-github AUTHORS. All rights reserved.

-------- Dependency
github.com/google/go-querystring
-------- Copyrights
Copyright (c) 2013 Google. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.

-------- Dependency
github.com/google/uuid
-------- Copyrights
Copyright 2016 Google Inc.  All rights reserved.
Copyright (c) 2009,2014 Google Inc. All rights reserved.
Copyright 2017 Google Inc.  All rights reserved.
Copyright 2021 Google Inc.  All rights reserved.
Copyright 2018 Google Inc.  All rights reserved.

-------- Dependency
github.com/googleapis/gax-go/v2
-------- Copyrights
Copyright 2016, Google Inc.
Copyright 2022, Google Inc.
Copyright 2018, Google Inc.
Copyright 2021 Google LLC
Copyright 2022 Google LLC
Copyright 2019, Google Inc.
Copyright 2021, Google Inc.

-------- Dependency
github.com/imdario/mergo
-------- Copyrights
Copyright (c) 2013 Dario Castañé. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2013 Dario Castañé. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2014 Dario Castañé. All rights reserved.

-------- Dependency
github.com/spf13/pflag
-------- Copyrights
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.

-------- Dependency
golang.org/x/crypto
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright (c) 2021 The Go Authors. All rights reserved.
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
```

```
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/exp
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
```

```
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/mod
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/net
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright (C) 2009 Apple Inc. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
```

```
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/oauth2
-------- Copyrights
Copyright 2017 The oauth2 Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2015 The oauth2 Authors. All rights reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The oauth2 Authors. All rights reserved.

-------- Dependency
golang.org/x/sys
-------- Copyrights
Copyright 2019 The Go Authors. All rights reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
```

```
Copyright 2024 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/term
-------- Copyrights
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/text
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
```

```
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/time
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

```
-------- Dependency
golang.org/x/tools
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright © 1994-1999 Lucent Technologies Inc.  All rights reserved.
Portions Copyright © 1995-1997 C H Forsyth (forsyth@terzarima.net)
Portions Copyright © 1997-1999 Vita Nuova Limited
Portions Copyright © 2000-2007 Vita Nuova Holdings Limited
 (www.vitanuova.com)
Portions Copyright © 2004,2006 Bruce Ellis
Portions Copyright © 2005-2007 C H Forsyth (forsyth@terzarima.net)
Revisions Copyright © 2000-2007 Lucent Technologies Inc. and others
Portions Copyright © 2009 The Go Authors. All rights reserved.
const license = `// Copyright 2013 The Go Authors. All rights reserved.
a := "// Copyright 2019 The Go Authors. All rights reserved.\n// Use of this
 source code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/gopls/internal/
lsp/diff\"\n\t\"golang.org/x/tools/internal/diff/difftest\"\n\t\"golang.org/
x/tools/gopls/internal/span\"\n)\n"
b := "// Copyright 2019 The Go Authors. All rights reserved.\n// Use of this
 source code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/template
\"\n\t\"golang.org/x/tools/gopls/internal/lsp/diff\"\n\t\"golang.org/x/
tools/internal/diff/difftest\"\n\t\"golang.org/x/tools/gopls/internal/span
\"\n)\n"
outf(`// Copyright 2022 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
```

```
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/xerrors
-------- Copyrights
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
google.golang.org/api
-------- Copyrights
Copyright (c) 2011 Google Inc. All rights reserved.
Copyright 2023 Google LLC.
Copyright 2020 Google LLC.
Copyright 2021 Google LLC.
Copyright 2022 Google LLC.
Copyright 2019 Google LLC. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2017 Google LLC.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2011 Google LLC. All rights reserved.
Copyright 2018 Google LLC. All rights reserved.
Copyright 2016 Google LLC
Copyright 2013 Google LLC. All rights reserved.
Copyright 2018 Google LLC
Copyright 2019 Google LLC.
Copyright 2012 Google LLC. All rights reserved.
Copyright 2015 Google LLC
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2020 Google LLC. All rights reserved.
```

```
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2016 Google LLC.
Copyright 2022 Google LLC. All rights reserved.
Copyright 2013 Joshua Tacoma. All rights reserved.
Copyright (c) 2013 Joshua Tacoma. All rights reserved.
Copyright 2021 Google LLC. All rights reserved.
Copyright 2018 Google LLC.
Copyright 2015 Google LLC.

-------- Dependency
google.golang.org/protobuf
-------- Copyrights
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
gopkg.in/inf.v0
-------- Copyrights
Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go

-------- Dependencies Summary
github.com/containous/mux
github.com/fsnotify/fsnotify
github.com/gogo/protobuf
github.com/golang/protobuf
github.com/google/go-cmp
github.com/google/go-github/v28
github.com/google/go-querystring
github.com/google/uuid
github.com/googleapis/gax-go/v2
github.com/imdario/mergo
github.com/spf13/pflag
```

```
golang.org/x/crypto
golang.org/x/exp
golang.org/x/mod
golang.org/x/net
golang.org/x/oauth2
golang.org/x/sys
golang.org/x/term
golang.org/x/text
golang.org/x/time
golang.org/x/tools
golang.org/x/xerrors
google.golang.org/api
google.golang.org/protobuf
gopkg.in/inf.v0

-------- License used by Dependencies
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/AdamSLevy/jsonrpc2/v14
-------- Copyrights
Copyright 2018 Adam S Levy

-------- Dependency
github.com/Azure/azure-sdk-for-go
-------- Copyrights
Copyright (c) Microsoft Corporation.
Copyright (c) Microsoft Corporation. All rights reserved.
CopyrightYear - READ-ONLY
CopyrightYear *int32 `json:"copyrightYear,omitempty"`
copyrightHolder, err := unmarshalBasicThing(*v)
CopyrightValidation ...
CopyrightValidation PolicyViolationCategory = "CopyrightValidation"
-------- Notices
NOTICES AND INFORMATION
Do Not Translate or Localize
```

```
This software incorporates material from third parties. Microsoft makes
 certain
open source code available at https://3rdpartysource.microsoft.com, or you
 may
send a check or money order for US $5.00, including the product name, the
 open
source component name, and version number, to:

Source Code Compliance Team
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
USA

Notwithstanding any other terms, you may reverse engineer this software to
 the
extent required to debug changes to any libraries licensed under the GNU
 Lesser
General Public License.

--------------------------------------------------------------------------------

Azure SDK for Go uses third-party libraries or other resources that may be
distributed under licenses different than the Azure SDK for Go software.

In the event that we accidentally failed to list a required notice, please
bring it to our attention. Post an issue or email us:

           azgosdkhelp@microsoft.com

The attached notices are provided for information only.


-------- Dependency
github.com/Azure/azure-sdk-for-go/sdk/azcore
-------- Copyrights
Copyright 2017 Microsoft Corporation. All rights reserved.
Copyright (c) Microsoft Corporation.
Copyright (c) Microsoft Corporation. All rights reserved.

-------- Dependency
github.com/Azure/azure-sdk-for-go/sdk/azidentity
-------- Copyrights
Copyright (c) Microsoft Corporation.
Copyright (c) Microsoft Corporation. All rights reserved.

-------- Dependency
github.com/Azure/azure-sdk-for-go/sdk/internal
-------- Copyrights
Copyright 2017 Microsoft Corporation. All rights reserved.
Copyright (c) Microsoft Corporation. All rights reserved.
Copyright (c) Microsoft Corporation.

-------- Dependency
github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/dns/armdns
-------- Copyrights
Copyright (c) Microsoft Corporation. All rights reserved.

-------- Dependency
github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/privatedns/
armprivatedns
-------- Copyrights
Copyright (c) Microsoft Corporation. All rights reserved.
```

```
-------- Dependency
github.com/AzureAD/microsoft-authentication-library-for-go
-------- Copyrights
Copyright (c) Microsoft Corporation.
Copyright (c) Microsoft Corporation.  All rights reserved. Licensed under
 the MIT License (the "License").

-------- Dependency
github.com/BurntSushi/toml
-------- Copyrights
Copyright (c) 2013 TOML authors
Copyright (c) 2018 TOML authors
Copyright 2010 The Go Authors.  All rights reserved.

-------- Dependency
github.com/DataDog/datadog-go/v5
-------- Copyrights
Copyright (c) 2015 Datadog, Inc
Copyright 2013 Ooyala, Inc.

-------- Dependency
github.com/HdrHistogram/hdrhistogram-go
-------- Copyrights
Copyright (c) 2014 Coda Hale

-------- Dependency
github.com/Masterminds/semver/v3
-------- Copyrights
Copyright (C) 2014-2019, Matt Butcher and Matt Farina

-------- Dependency
github.com/Masterminds/sprig/v3
-------- Copyrights
Copyright (C) 2013-2020 Masterminds

-------- Dependency
github.com/VividCortex/gohistogram
-------- Copyrights
Copyright (c) 2013 VividCortex
Copyright (c) 2013 VividCortex, Inc. All rights reserved.

-------- Dependency
github.com/andres-erbsen/clock
-------- Copyrights
Copyright (c) 2014 Ben Johnson, Copyright (c) 2015 Yahoo Inc.

-------- Dependency
github.com/armon/go-metrics
-------- Copyrights
Copyright (c) 2013 Armon Dadgar

-------- Dependency
github.com/armon/go-radix
-------- Copyrights
Copyright (c) 2014 Armon Dadgar

-------- Dependency
github.com/beorn7/perks
-------- Copyrights
Copyright (C) 2013 Blake Mizerany

-------- Dependency
github.com/boombuler/barcode
-------- Copyrights
```

```
Copyright (c) 2014 Florian Sundermann

-------- Dependency
github.com/cenkalti/backoff/v4
-------- Copyrights
Copyright (c) 2014 Cenk Altı

-------- Dependency
github.com/cespare/xxhash/v2
-------- Copyrights
Copyright (c) 2016 Caleb Spare

-------- Dependency
github.com/civo/civogo
-------- Copyrights
Copyright (c) 2020 Civo Ltd. https://www.civo.com

-------- Dependency
github.com/containous/alice
-------- Copyrights
Copyright (c) 2014 Justinas Stankevicius

-------- Dependency
github.com/cpu/goacmedns
-------- Copyrights
Copyright (c) 2018 Daniel McCarney

-------- Dependency
github.com/dgryski/go-rendezvous
-------- Copyrights
Copyright (c) 2017-2020 Damian Gryski <damian@gryski.com>

-------- Dependency
github.com/dnsimple/dnsimple-go
-------- Copyrights
Copyright (c) 2014-2022 DNSimple Corporation
Copyright (c) 2014-2022 DNSimple Corporation. This is Free Software
 distributed under the MIT license.

-------- Dependency
github.com/dustin/go-humanize
-------- Copyrights
Copyright (c) 2005-2008  Dustin Sallings <dustin@spy.net>

-------- Dependency
github.com/emicklei/go-restful/v3
-------- Copyrights
Copyright 2013 Ernest Micklei. All rights reserved.
Copyright 2015 Ernest Micklei. All rights reserved.
Copyright 2021 Ernest Micklei. All rights reserved.
Copyright (c) 2012,2013 Ernest Micklei
Copyright 2018 Ernest Micklei. All rights reserved.
Copyright 2014 Ernest Micklei. All rights reserved.

-------- Dependency
github.com/fatih/color
-------- Copyrights
Copyright (c) 2013 Fatih Arslan

-------- Dependency
github.com/fatih/structs
-------- Copyrights
Copyright (c) 2014 Fatih Arslan
```

```
-------- Dependency
github.com/go-acme/lego/v4
-------- Copyrights
Copyright (c) 2015-2017 Sebastian Erhart

-------- Dependency
github.com/go-errors/errors
-------- Copyrights
Copyright (c) 2015 Conrad Irwin <conrad@bugsnag.com>

-------- Dependency
github.com/go-kit/kit
-------- Copyrights
Copyright (c) 2015 Peter Bourgon
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright (c) 2014 Simon Eskildsen

-------- Dependency
github.com/go-logfmt/logfmt
-------- Copyrights
Copyright (c) 2015 go-logfmt
Copyright 2010 The Go Authors. All rights reserved.

-------- Dependency
github.com/go-resty/resty/v2
-------- Copyrights
Copyright (c) 2015-2023 Jeevanandam M., https://myjeeva.com
 <jeeva@myjeeva.com>
Copyright (c) 2015-2023 Jeevanandam M (jeeva@myjeeva.com), All rights
 reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright (c) 2015-2023 Jeevanandam M (jeeva@myjeeva.com)
Copyright (c) 2015-2023 Jeevanandam M. (jeeva@myjeeva.com), All rights
 reserved.

-------- Dependency
github.com/goccy/go-json
-------- Copyrights
Copyright (c) 2020 Masaaki Goshima
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.

-------- Dependency
github.com/gofrs/uuid
-------- Copyrights
Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>
Copyright (c) 2018 Andrei Tudor Călin <mail@acln.ro>

-------- Dependency
github.com/golang-jwt/jwt/v4
-------- Copyrights
Copyright (c) 2012 Dave Grijalva
Copyright (c) 2021 golang-jwt maintainers

-------- Dependency
github.com/hashicorp/go-hclog
-------- Copyrights
Copyright (c) 2017 HashiCorp, Inc.
Copyright (c) HashiCorp, Inc.
Copyright (c) 2016 Uber Technologies, Inc.
```

```
-------- Dependency
github.com/huandu/xstrings
-------- Copyrights
Copyright (c) 2015 Huan Du
Copyright 2015 Huan Du. All rights reserved.

-------- Dependency
github.com/influxdata/influxdb-client-go/v2
-------- Copyrights
Copyright (c) 2020-2021 Influxdata, Inc.
Copyright 2020-2021 InfluxData, Inc. All rights reserved.
Copyright 2020-2021 InfluxData, Inc.. All rights reserved.

-------- Dependency
github.com/influxdata/influxdb1-client
-------- Copyrights
Copyright (c) 2019 InfluxData

-------- Dependency
github.com/influxdata/line-protocol
-------- Copyrights
Copyright (c) 2013-2018 InfluxData Inc.

-------- Dependency
github.com/instana/go-sensor
-------- Copyrights
Copyright (c) 2021 IBM Corp.
Copyright (c) 2016 Instana, Inc. https://www.instana.com/
(c) Copyright IBM Corp. 2021
(c) Copyright Instana Inc. 2020
(c) Copyright Instana Inc. 2019
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
(c) Copyright Instana Inc. 2017
(c) Copyright Instana Inc. 2016
(c) Copyright Instana Inc. 2018
(c) Copyright Instana Inc. 2021
Copyright 2019 The Go Authors. All rights reserved.

-------- Dependency
github.com/joeshaw/multierror
-------- Copyrights
Copyright (c) 2014 Joe Shaw

-------- Dependency
github.com/josharian/intern
-------- Copyrights
Copyright (c) 2019 Josh Bleecher Snyder

-------- Dependency
github.com/json-iterator/go
-------- Copyrights
Copyright (c) 2016 json-iterator

-------- Dependency
github.com/k0kubun/go-ansi
-------- Copyrights
Copyright (c) 2014 Takashi Kokubun

-------- Dependency
github.com/kolo/xmlrpc
-------- Copyrights
Copyright (C) 2012 Dmitry Maksimov
```

```
-------- Dependency
github.com/labbsr0x/bindman-dns-webhook
-------- Copyrights
Copyright (c) 2018 Labbs

-------- Dependency
github.com/labbsr0x/goh
-------- Copyrights
Copyright (c) 2019 Abilio Esteves

-------- Dependency
github.com/linode/linodego
-------- Copyrights
Copyright (c) 2017 Christopher "Chief" Najewicz

-------- Dependency
github.com/mailru/easyjson
-------- Copyrights
Copyright (c) 2016 Mail.Ru Group
Copyright (c) 2009 The Go Authors. All rights reserved.

-------- Dependency
github.com/mattn/go-colorable
-------- Copyrights
Copyright (c) 2016 Yasuhiro Matsumoto

-------- Dependency
github.com/mattn/go-isatty
-------- Copyrights
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

-------- Dependency
github.com/mimuret/golang-iij-dpf
-------- Copyrights
Copyright (c) 2021 Manabu Sonoda

-------- Dependency
github.com/mitchellh/copystructure
-------- Copyrights
Copyright (c) 2014 Mitchell Hashimoto

-------- Dependency
github.com/mitchellh/go-homedir
-------- Copyrights
Copyright (c) 2013 Mitchell Hashimoto

-------- Dependency
github.com/mitchellh/hashstructure
-------- Copyrights
Copyright (c) 2016 Mitchell Hashimoto

-------- Dependency
github.com/mitchellh/mapstructure
-------- Copyrights
Copyright (c) 2013 Mitchell Hashimoto

-------- Dependency
github.com/mitchellh/reflectwalk
-------- Copyrights
Copyright (c) 2013 Mitchell Hashimoto

-------- Dependency
github.com/namedotcom/go
-------- Copyrights
```

```
Copyright (c) 2017 Name.com

-------- Dependency
github.com/nrdcg/bunny-go
-------- Copyrights
Copyright (c) 2021 simplesurance GmbH

-------- Dependency
github.com/nrdcg/dnspod-go
-------- Copyrights
Copyright (c) 2017 decker

-------- Dependency
github.com/nrdcg/goinwx
-------- Copyrights
Copyright (c) 2017 Andrew
Copyright (c) 2018 NRDCG authors

-------- Dependency
github.com/nzdjb/go-metaname
-------- Copyrights
Copyright (c) 2023 nzdjb

-------- Dependency
github.com/patrickmn/go-cache
-------- Copyrights
Copyright (c) 2012-2017 Patrick Mylund Nielsen and the go-cache contributors

-------- Dependency
github.com/philhofer/fwd
-------- Copyrights
Copyright (c) 2014-2015, Philip Hofer

-------- Dependency
github.com/quic-go/qpack
-------- Copyrights
Copyright 2019 Marten Seemann

-------- Dependency
github.com/quic-go/quic-go
-------- Copyrights
Copyright (c) 2016 the quic-go authors & Google, Inc.
Copyright 2009 The Go Authors. All rights reserved.

-------- Dependency
github.com/secure-systems-lab/go-securesystemslib
-------- Copyrights
Copyright (c) 2021 NYU Secure Systems Lab

-------- Dependency
github.com/segmentio/fasthash
-------- Copyrights
Copyright (c) 2017 Segment

-------- Dependency
github.com/shopspring/decimal
-------- Copyrights
Copyright (c) 2015 Spring, Inc.
Copyright (c) 2013 Oguz Bilgic
Copyright 2009 The Go Authors. All rights reserved.

-------- Dependency
github.com/sirupsen/logrus
-------- Copyrights
```

```
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2012 Miki Tebeka <miki.tebeka@gmail.com>.

-------- Dependency
github.com/smartystreets/go-aws-auth
-------- Copyrights
Copyright (c) 2016 SmartyStreets

-------- Dependency
github.com/softlayer/xmlrpc
-------- Copyrights
Copyright (C) 2012 Dmitry Maksimov

-------- Dependency
github.com/spf13/cast
-------- Copyrights
Copyright (c) 2014 Steve Francia
Copyright © 2014 Steve Francia <spf@spf13.com>.
Copyright 2011 The Go Authors. All rights reserved.

-------- Dependency
github.com/stretchr/objx
-------- Copyrights
Copyright (c) 2014 Stretchr, Inc.
Copyright (c) 2017-2018 objx contributors

-------- Dependency
github.com/stretchr/testify
-------- Copyrights
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.

-------- Dependency
github.com/tinylib/msgp
-------- Copyrights
Copyright (c) 2014 Philip Hofer
Portions Copyright (c) 2009 The Go Authors (license at http://golang.org)
 where indicated

-------- Dependency
github.com/transip/gotransip/v6
-------- Copyrights
Copyright (c) 2018 TransIP B.V.

-------- Dependency
github.com/unrolled/render
-------- Copyrights
Copyright (c) 2014 Cory Jacobsen

-------- Dependency
github.com/unrolled/secure
-------- Copyrights
Copyright (c) 2014 Cory Jacobsen

-------- Dependency
github.com/vultr/govultr/v2
-------- Copyrights
Copyright (c) 2019 Vultr

-------- Dependency
github.com/yandex-cloud/go-genproto
-------- Copyrights
Copyright (c) 2018 YANDEX LLC

-------- Dependency
```

```
github.com/yandex-cloud/go-sdk
-------- Copyrights
Copyright (c) 2019 YANDEX LLC.
Copyright (c) 2018 YANDEX LLC
Copyright (c) 2018 Yandex LLC. All rights reserved.
Copyright (c) 2020 YANDEX LLC.
Copyright (c) 2019 Yandex LLC. All rights reserved.
Copyright (c) 2021 Yandex LLC. All rights reserved.
Copyright 2017 gRPC authors.
Copyright (c) 2021 YANDEX LLC.
Copyright (c) 2020 Yandex LLC. All rights reserved.
Copyright (c) 2017 Yandex LLC. All rights reserved.

-------- Dependency
go.uber.org/atomic
-------- Copyrights
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2020 Uber Technologies, Inc.
Copyright (c) 2020-2022 Uber Technologies, Inc.
Copyright (c) 2020-2023 Uber Technologies, Inc.
Copyright (c) 2022 Uber Technologies, Inc.
Copyright (c) 2021 Uber Technologies, Inc.
Copyright (c) 2021-2022 Uber Technologies, Inc.
Copyright (c) 2016-2020 Uber Technologies, Inc.

-------- Dependency
go.uber.org/multierr
-------- Copyrights
Copyright (c) 2017-2021 Uber Technologies, Inc.
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2020 Uber Technologies, Inc.
Copyright (c) 2021 Uber Technologies, Inc.

-------- Dependency
go.uber.org/ratelimit
-------- Copyrights
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016,2020 Uber Technologies, Inc.

-------- Dependency
go.uber.org/zap
-------- Copyrights
Copyright (c) 2016-2017 Uber Technologies, Inc.
Copyright (c) "*" Uber Technologies, Inc.")
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2020 Uber Technologies, Inc.
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2021 Uber Technologies, Inc.
Copyright (c) 2016, 2017 Uber Technologies, Inc.
Copyright (c) 2018 Uber Technologies, Inc.

-------- Dependencies Summary
github.com/AdamSLevy/jsonrpc2/v14
github.com/Azure/azure-sdk-for-go
github.com/Azure/azure-sdk-for-go/sdk/azcore
github.com/Azure/azure-sdk-for-go/sdk/azidentity
github.com/Azure/azure-sdk-for-go/sdk/internal
github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/dns/armdns
github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/privatedns/
armprivatedns
github.com/AzureAD/microsoft-authentication-library-for-go
github.com/BurntSushi/toml
github.com/DataDog/datadog-go/v5
github.com/HdrHistogram/hdrhistogram-go
```

```
github.com/Masterminds/semver/v3
github.com/Masterminds/sprig/v3
github.com/VividCortex/gohistogram
github.com/andres-erbsen/clock
github.com/armon/go-metrics
github.com/armon/go-radix
github.com/beorn7/perks
github.com/boombuler/barcode
github.com/cenkalti/backoff/v4
github.com/cespare/xxhash/v2
github.com/civo/civogo
github.com/containous/alice
github.com/cpu/goacmedns
github.com/dgryski/go-rendezvous
github.com/dnsimple/dnsimple-go
github.com/dustin/go-humanize
github.com/emicklei/go-restful/v3
github.com/fatih/color
github.com/fatih/structs
github.com/go-acme/lego/v4
github.com/go-errors/errors
github.com/go-kit/kit
github.com/go-logfmt/logfmt
github.com/go-resty/resty/v2
github.com/goccy/go-json
github.com/gofrs/uuid
github.com/golang-jwt/jwt/v4
github.com/hashicorp/go-hclog
github.com/huandu/xstrings
github.com/influxdata/influxdb-client-go/v2
github.com/influxdata/influxdb1-client
github.com/influxdata/line-protocol
github.com/instana/go-sensor
github.com/joeshaw/multierror
github.com/josharian/intern
github.com/json-iterator/go
github.com/k0kubun/go-ansi
github.com/kolo/xmlrpc
github.com/labbsr0x/bindman-dns-webhook
github.com/labbsr0x/goh
github.com/linode/linodego
github.com/mailru/easyjson
github.com/mattn/go-colorable
github.com/mattn/go-isatty
github.com/mimuret/golang-iij-dpf
github.com/mitchellh/copystructure
github.com/mitchellh/go-homedir
github.com/mitchellh/hashstructure
github.com/mitchellh/mapstructure
github.com/mitchellh/reflectwalk
github.com/namedotcom/go
github.com/nrdcg/bunny-go
github.com/nrdcg/dnspod-go
github.com/nrdcg/goinwx
github.com/nzdjb/go-metaname
github.com/patrickmn/go-cache
github.com/philhofer/fwd
github.com/quic-go/qpack
github.com/quic-go/quic-go
github.com/secure-systems-lab/go-securesystemslib
github.com/segmentio/fasthash
github.com/shopspring/decimal
github.com/sirupsen/logrus
github.com/smartystreets/go-aws-auth
```

```
github.com/softlayer/xmlrpc
github.com/spf13/cast
github.com/stretchr/objx
github.com/stretchr/testify
github.com/tinylib/msgp
github.com/transip/gotransip/v6
github.com/unrolled/render
github.com/unrolled/secure
github.com/vultr/govultr/v2
github.com/yandex-cloud/go-genproto
github.com/yandex-cloud/go-sdk
go.uber.org/atomic
go.uber.org/multierr
go.uber.org/ratelimit
go.uber.org/zap

-------- License used by Dependencies
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------ Dependencies Grouped by License ------------
-------- Dependency
github.com/hashicorp/consul/api
-------- Copyrights
Copyright (c) HashiCorp, Inc.
Copyright (c) 2020 HashiCorp, Inc.

-------- Dependency
github.com/hashicorp/errwrap
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/hashicorp/go-cleanhttp
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/hashicorp/go-immutable-radix
-------- Copyrights
  (no copyright notices found)

-------- Dependency
```

```
github.com/hashicorp/go-multierror
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/hashicorp/go-retryablehttp
-------- Copyrights
Copyright (c) HashiCorp, Inc.
Copyright (c) 2015 HashiCorp, Inc.

-------- Dependency
github.com/hashicorp/go-rootcerts
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/hashicorp/go-version
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/hashicorp/golang-lru
-------- Copyrights
Copyright (c) 2014 HashiCorp, Inc.

-------- Dependency
github.com/hashicorp/nomad/api
-------- Copyrights
Copyright (c) HashiCorp, Inc.
Copyright (c) 2015 HashiCorp, Inc.

-------- Dependency
github.com/hashicorp/serf
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/nrdcg/auroradns
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/nrdcg/desec
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/nrdcg/freemyip
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/nrdcg/namesilo
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/nrdcg/nodion
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/nrdcg/porkbun
-------- Copyrights
```

```
  (no copyright notices found)

-------- Dependencies Summary
github.com/hashicorp/consul/api
github.com/hashicorp/errwrap
github.com/hashicorp/go-cleanhttp
github.com/hashicorp/go-immutable-radix
github.com/hashicorp/go-multierror
github.com/hashicorp/go-retryablehttp
github.com/hashicorp/go-rootcerts
github.com/hashicorp/go-version
github.com/hashicorp/golang-lru
github.com/hashicorp/nomad/api
github.com/hashicorp/serf
github.com/nrdcg/auroradns
github.com/nrdcg/desec
github.com/nrdcg/freemyip
github.com/nrdcg/namesilo
github.com/nrdcg/nodion
github.com/nrdcg/porkbun

-------- License used by Dependencies
SPDX:MPL-2.0
Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
```

```
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date
```

```
The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.
```

```
3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------
```

```
5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
```

```
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                     *
*                                                                       *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.
```

```
If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/ghodss/yaml
-------- Copyrights
Copyright (c) 2014 Sam Ghods
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.

-------- Dependency
sigs.k8s.io/yaml
-------- Copyrights
Copyright (c) 2014 Sam Ghods
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.

-------- Dependencies Summary
github.com/ghodss/yaml
sigs.k8s.io/yaml

-------- License used by Dependencies
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: 786efb123259c1d2fae2451352f5deb6
```

Provider: Containous / Component(s): Traefik 2.4.13

```
Traefik

------------------------------ Top-Level License
 -------------------------------
SPDX:MIT

---------------------------------- Copyright
 ----------------------------------
Copyright (c) 2006, Ivan Sagalaev
Copyright (c) 2016-2020 Containous SAS; 2020-2022 Traefik Labs

-------------------------- Fourth Party Dependencies
 --------------------------

----------------------------------- Licenses
 -----------------------------------
-  Apache-1.1
-  Apache-2.0
-  BSD-2-Clause
-  BSD-3-Clause
-  BSD-3-Clause--modified-by-Google
-  Beerware
-  ISC
-  LicenseRef-C-Ares
-  MIT
-  MPL-2.0
-  RSA
-  UPL-1.0

--------------------------------- (separator)
 ---------------------------------
```

```
== Dependency
cloud.google.com/go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 1996-1998 John D. Polstra.  All rights reserved.
Copyright (c) 2001 David E. O'Brien
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 Google, Inc. Package foo does bar.", 27, ""},
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 Google LLC
Copyright 2016 Google LLC
Copyright 2017 Google LLC
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 Google Inc. All Rights Reserved.
Copyright 2018 Google LLC
Copyright 2018 Google LLC.
Copyright 2019 Google LLC
Copyright 2020 Google LLC
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2020, Google LLC
Copyright 2021 Google LLC

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Azure/azure-sdk-for-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) Microsoft and contributors.  All rights reserved.
Copyright 2014-2017 Microsoft
Copyright 2017 Microsoft Corporation
Copyright 2018 Microsoft Corporation
Copyright 2018 Microsoft Corporation and contributors
Copyright 2018 Microsoft Corporation and contributors.  All rights reserved.
Copyright 2020 Microsoft Corporation

== Notices
Microsoft Azure-SDK-for-Go
Copyright 2014-2017 Microsoft

This product includes software developed at
the Microsoft Corporation (https://www.microsoft.com).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Azure/go-autorest/autorest

== License Type
SPDX:Apache-2.0

== Copyright
```

```
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Azure/go-autorest/autorest/adal

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Azure/go-autorest/autorest/azure/auth

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Azure/go-autorest/autorest/azure/cli

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Azure/go-autorest/autorest/date

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Azure/go-autorest/autorest/to

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Azure/go-autorest/autorest/validation

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Azure/go-autorest/logger

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Azure/go-autorest/tracing

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation
Copyright 2018 Microsoft Corporation

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/BurntSushi/toml

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 TOML authors
Copyright (c) 2018 TOML authors
Copyright 2010 The Go Authors.  All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/DataDog/datadog-agent/pkg/obfuscate
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2016-present Datadog, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/DataDog/datadog-go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015 Datadog, Inc
Copyright 2013 Ooyala, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/DataDog/datadog-go/v5

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015 Datadog, Inc
Copyright 2013 Ooyala, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/DataDog/sketches-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2021 DataDog, Inc.
Copyright 2021 Datadog, Inc.

== Notices
Datadog sketches-go
Copyright 2021 Datadog, Inc.

This product includes software developed at Datadog (https://
www.datadoghq.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/ExpediaDotCom/haystack-client-go

== License Type
SPDX:Apache-2.0

== Copyright
```

```
Copyright 2018 Expedia Group.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/HdrHistogram/hdrhistogram-go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Coda Hale

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Masterminds/goutils

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Alexander Okoli

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Masterminds/semver/v3

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2014-2019, Matt Butcher and Matt Farina

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Masterminds/sprig/v3

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2013-2020 Masterminds

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/OpenDNS/vegadns2client

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018, Cisco Systems, Inc.

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
github.com/PuerkitoBio/purell

== License Type
Copyright (c) 2012, Martin Angers
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the author nor the names of its contributors may be
 used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012, Martin Angers

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/PuerkitoBio/urlesc

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/VividCortex/gohistogram

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 VividCortex
Copyright (c) 2013 VividCortex, Inc. All rights reserved.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/abbot/go-http-auth

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012-2013 Lev Shamardin

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/akamai/AkamaiOPEN-edgegrid-golang

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018. Akamai Technologies, Inc

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/aliyun/alibaba-cloud-sdk-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009-present, Alibaba Cloud All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/andres-erbsen/clock

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Ben Johnson, Copyright (c) 2015 Yahoo Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/andybalholm/brotli

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.
Copyright 2010 Google Inc. All Rights Reserved.
Copyright 2013 Google Inc. All Rights Reserved.
Copyright 2014 Google Inc. All Rights Reserved.
Copyright 2015 Google Inc. All Rights Reserved.
```

```
Copyright 2016 Google Inc. All Rights Reserved.
Copyright 2017 Google Inc. All Rights Reserved.
Copyright 2018 Google Inc. All Rights Reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/armon/go-metrics

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Armon Dadgar

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/armon/go-radix

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Armon Dadgar

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/aws/aws-sdk-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2016 Carl Jackson
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014-2015 Stripe, Inc.
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2017 Amazon.com, Inc. or its affiliates. All Rights Reserved.

== Notices
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/beorn7/perks

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2013 Blake Mizerany
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/boombuler/barcode

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Florian Sundermann

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/cenkalti/backoff/v4

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Cenk AltÄ±

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/cespare/xxhash/v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Caleb Spare

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/cheekybits/genny

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 cheekybits

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/circonus-labs/circonus-gometrics

== License Type
Copyright (c) 2016, Circonus, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
```

```
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name Circonus, Inc. nor the names
      of its contributors may be used to endorse or promote products
      derived from this software without specific prior written
      permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2016, Circonus, Inc. All rights reserved.
Copyright 2016 Circonus, Inc. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/circonus-labs/circonusllhist

== License Type
Copyright (c) 2016 Circonus, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name Circonus, Inc. nor the names of its contributors
      may be used to endorse or promote products derived from this
      software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
== Copyright
Copyright (c) 2016 Circonus, Inc. All rights reserved.
Copyright 2016, Circonus, Inc. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/civo/civogo

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2020 Civo Ltd. https://www.civo.com

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/cloudflare/cloudflare-go

== License Type
SPDX:BSD-3-Clause

== Copyright
Copyright (c) 2015-2022, Cloudflare. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/containerd/containerd

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) 1999-2008 Novell Inc.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009-2012 Canonical Ltd.
Copyright 2009-2018 Canonical Ltd.
Copyright 2012-2015 Docker, Inc.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 CNI authors
Copyright 2018 The Kubernetes Authors.

== Notices
Docker
Copyright 2012-2015 Docker, Inc.

This product includes software developed at Docker, Inc. (https://
www.docker.com).

The following is courtesy of our legal counsel:


Use and transfer of Docker may be subject to certain restrictions by the
United States and other governments.
It is your responsibility to ensure that your use and/or transfer does not
violate applicable laws.
```

```
For more information, please see https://www.bis.doc.gov

See also https://www.apache.org/dev/crypto.html and/or seek legal counsel.


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/containous/alice

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Justinas Stankevicius

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/coreos/go-semver

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013-2015 CoreOS, Inc.
Copyright 2018 CoreOS, Inc

== Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/coreos/go-systemd

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Docker, Inc.
Copyright 2015 CoreOS Inc.
Copyright 2015 CoreOS, Inc.
Copyright 2015 RedHat, Inc.
Copyright 2015, 2018 CoreOS, Inc.
Copyright 2015-2018 CoreOS, Inc.
Copyright 2016 CoreOS, Inc.
Copyright 2018 CoreOS, Inc
Copyright 2018 CoreOS, Inc.
Copyright 2019 CoreOS, Inc.

== Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
```

```
(http://www.coreos.com/).


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/coreos/go-systemd/v22

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Docker, Inc.
Copyright 2015 CoreOS Inc.
Copyright 2015 CoreOS, Inc.
Copyright 2015 RedHat, Inc.
Copyright 2015, 2018 CoreOS, Inc.
Copyright 2015-2018 CoreOS, Inc.
Copyright 2016 CoreOS, Inc.
Copyright 2018 CoreOS, Inc
Copyright 2018 CoreOS, Inc.
Copyright 2019 CoreOS, Inc.
Copyright 2020 CoreOS, Inc.

== Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/cpu/goacmedns

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2018 Daniel McCarney

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/davecgh/go-spew

== License Type
ISC License

Copyright (c) 2012-2016 Dave Collins &lt;dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
```

```
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



== Copyright
Copyright (c) 2012-2016 Dave Collins &lt;dave@davec.name>
Copyright (c) 2013 Dave Collins &lt;dave@davec.name>
Copyright (c) 2013-2016 Dave Collins &lt;dave@davec.name>
Copyright (c) 2015-2016 Dave Collins &lt;dave@davec.name>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/deepmap/oapi-codegen

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 DeepMap, Inc.
Copyright 2021 DeepMap, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/desertbit/timer

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Roland Singer

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/dgraph-io/ristretto

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2014 Andreas Briese, eduToolbox@Bri-C GmbH, Sarstedt
Copyright (c) 2019 Ewan Chou
Copyright 2019 Dgraph Labs, Inc. and Contributors
Copyright 2020 Dgraph Labs, Inc. and Contributors
Copyright 2020 The LevelDB-Go and Pebble Authors. All rights reserved. Use

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/dgryski/go-rendezvous

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017-2020 Damian Gryski &lt;damian@gryski.com>
```

```
---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/dimchansky/utfbom

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2018-2020, Dmitrij Koniajev (dimchansky@gmail.com)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/dnsimple/dnsimple-go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014-2020 DNSimple Corporation
Copyright (c) 2014-2020 DNSimple Corporation. This is Free Software
 distributed under the MIT license.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/docker/cli

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2012-2017 Docker, Inc.
Copyright 2013-2017 Docker, Inc.

== Notices
Docker
Copyright 2012-2017 Docker, Inc.

This product includes software developed at Docker, Inc. (https://
www.docker.com).

This product contains software (https://github.com/creack/pty) developed
by Keith Rarick, licensed under the MIT License.

The following is courtesy of our legal counsel:


Use and transfer of Docker may be subject to certain restrictions by the
United States and other governments.
It is your responsibility to ensure that your use and/or transfer does not
violate applicable laws.

For more information, please see https://www.bis.doc.gov

See also https://www.apache.org/dev/crypto.html and/or seek legal counsel.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/docker/distribution

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2013 Damien Le Berrigaud and Nick Wade

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/docker/docker

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) 1999-2008 Novell Inc.
Copyright (c) 2015 John Howard (Microsoft)
Copyright 2009-2012 Canonical Ltd.
Copyright 2009-2018 Canonical Ltd.
Copyright 2012-2017 Docker, Inc.
Copyright 2013-2018 Docker, Inc.

== Notices
Docker
Copyright 2012-2017 Docker, Inc.

This product includes software developed at Docker, Inc. (https://
www.docker.com).

This product contains software (https://github.com/creack/pty) developed
by Keith Rarick, licensed under the MIT License.

The following is courtesy of our legal counsel:


Use and transfer of Docker may be subject to certain restrictions by the
United States and other governments.
It is your responsibility to ensure that your use and/or transfer does not
violate applicable laws.

For more information, please see https://www.bis.doc.gov

See also https://www.apache.org/dev/crypto.html and/or seek legal counsel.


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/docker/go-connections

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Docker, Inc.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/docker/go-units

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Docker, Inc.
Copyright Â© 2015 Docker, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/donovanhide/eventsource

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2014 gRPC authors.
Copyright 2021 eventsource authors
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/dustin/go-humanize

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2005-2008  Dustin Sallings &lt;dustin@spy.net>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/elastic/go-sysinfo

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017-2019 Elasticsearch B.V.

== Notices
Elastic go-sysinfo
Copyright 2017-2019 Elasticsearch B.V.

This product includes software developed at
```

```
Elasticsearch, B.V. (https://www.elastic.co/).


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/emicklei/go-restful/v3

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012,2013 Ernest Micklei
Copyright 2013 Ernest Micklei. All rights reserved.
Copyright 2014 Ernest Micklei. All rights reserved.
Copyright 2015 Ernest Micklei. All rights reserved.
Copyright 2018 Ernest Micklei. All rights reserved.
Copyright 2021 Ernest Micklei. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/evanphx/json-patch

== License Type
Copyright (c) 2014, Evan Phoenix
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the Evan Phoenix nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2014, Evan Phoenix

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
github.com/exoscale/egoscale

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 exoscale(tm)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/fatih/color

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Fatih Arslan

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/fatih/structs

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Fatih Arslan

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/fsnotify/fsnotify

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/gambol99/go-marathon

== License Type
SPDX:Apache-2.0

== Copyright
```

```
Copyright 2014 The go-marathon Authors All rights reserved.
Copyright 2015 The go-marathon Authors All rights reserved.
Copyright 2016 The go-marathon Authors All rights reserved.
Copyright 2017 The go-marathon Authors All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/ghodss/yaml

== License Type
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2014 Sam Ghods
Copyright 2013 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-acme/lego/v4

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015-2017 Sebastian Erhart

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-errors/errors

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015 Conrad Irwin &lt;conrad@bugsnag.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-kit/kit

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 Peter Bourgon
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-logfmt/logfmt

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015 go-logfmt
Copyright 2010 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/go-logr/logr

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 The logr Authors.
Copyright 2020 The logr Authors.
Copyright 2021 The logr Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-logr/stdr

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 The logr Authors.
Copyright 2021 The logr Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-openapi/jsonpointer

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 sigu-399 ( https://github.com/sigu-399 )

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-openapi/jsonreference

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 sigu-399 ( https://github.com/sigu-399 )

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-openapi/swag

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 go-swagger maintainers

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/go-redis/redis/v8

== License Type
Copyright (c) 2013 The github.com/go-redis/redis Authors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2013 The github.com/go-redis/redis Authors.
Copyright 2001-2010 Georges Menie (www.menie.org)
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Camlistore Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-resty/resty/v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015-2019 Jeevanandam M (jeeva@myjeeva.com)
Copyright (c) 2015-2019 Jeevanandam M (jeeva@myjeeva.com), All rights
 reserved.
Copyright (c) 2015-2019 Jeevanandam M. (jeeva@myjeeva.com), All rights
 reserved.
Copyright (c) 2015-2019 Jeevanandam M., https://myjeeva.com
 &lt;jeeva@myjeeva.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-zookeeper/zk

== License Type
Copyright (c) 2013, Samuel Stauffer &lt;samuel@descolada.com>
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of the author nor the
  names of its contributors may be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL &lt;COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2013, Samuel Stauffer &lt;samuel@descolada.com>
Copyright 2012 Google Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/gogo/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2013, The GoGo Authors. All rights reserved.
Copyright (c) 2015, The GoGo Authors.  rights reserved.
Copyright (c) 2015, The GoGo Authors. All rights reserved.
Copyright (c) 2016, The GoGo Authors. All rights reserved.
Copyright (c) 2017, The GoGo Authors. All rights reserved.
Copyright (c) 2018, The GoGo Authors. All rights reserved.
Copyright (c) 2019, The GoGo Authors. All rights reserved.
Copyright 2010 The Go Authors.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2016 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2018 The Go Authors.  All rights reserved.

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/golang-jwt/jwt/v4

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012 Dave Grijalva
Copyright (c) 2021 golang-jwt maintainers

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang/glog

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 Google Inc. All Rights Reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang/groupcache

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012 Google Inc.
Copyright 2013 Google Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/btree
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Google Inc.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/google/gnostic

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017 Google LLC. All Rights Reserved.
Copyright 2017-2020, Google LLC.
Copyright 2018 Google LLC. All Rights Reserved.
Copyright 2019 Google LLC. All Rights Reserved.
Copyright 2020 Google LLC. All Rights Reserved.
Copyright 2020 Google LLC. All Rights Reserved.\n" +

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/google/go-cmp

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2017, The Go Authors. All rights reserved.
Copyright 2018, The Go Authors. All rights reserved.
Copyright 2019, The Go Authors. All rights reserved.
Copyright 2020, The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/google/go-github/v28

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2013 The go-github AUTHORS. All rights reserved.
Copyright 2013 The go-github AUTHORS. All rights reserved.
Copyright 2014 The go-github AUTHORS. All rights reserved.
Copyright 2015 The go-github AUTHORS. All rights reserved.
Copyright 2016 The go-github AUTHORS. All rights reserved.
Copyright 2017 The go-github AUTHORS. All rights reserved.
Copyright 2018 The go-github AUTHORS. All rights reserved.
Copyright 2019 The go-github AUTHORS. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/google/go-querystring
```

```
== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2013 Google. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/google/gofuzz

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Google Inc. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/google/uuid

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009,2014 Google Inc. All rights reserved.
Copyright 2016 Google Inc.  All rights reserved.
Copyright 2017 Google Inc.  All rights reserved.
Copyright 2018 Google Inc.  All rights reserved.
Copyright 2021 Google Inc.  All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/googleapis/gax-go/v2

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright 2016, Google Inc.
Copyright 2018, Google Inc.
Copyright 2019, Google Inc.
Copyright 2021 Google LLC
Copyright 2021, Google Inc.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/gophercloud/gophercloud

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012-2013 Rackspace, Inc.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/gophercloud/utils

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2014 gRPC authors.
Copyright 2021 eventsource authors
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/gorilla/mux

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 Rodrigo Moraes. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 Gorilla Authors. All rights reserved.
Copyright 2012 The Gorilla Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/gorilla/websocket

== License Type
SPDX:BSD-2-Clause

== Copyright
Copyright (c) 2008-2009 Bjoern Hoehrmann &lt;bjoern@hoehrmann.de>
Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.
Copyright 2013 The Gorilla WebSocket Authors. All rights reserved.
Copyright 2014 The Gorilla WebSocket Authors. All rights reserved.
Copyright 2015 The Gorilla WebSocket Authors. All rights reserved.
Copyright 2016 The Gorilla WebSocket Authors. All rights reserved.  Use of
Copyright 2017 The Gorilla WebSocket Authors. All rights reserved.
Copyright 2019 The Gorilla WebSocket Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/gravitational/trace

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright 2015 Gravitational, Inc.
Copyright 2015-2019 Gravitational, Inc.
Copyright 2016 Gravitational, Inc.
Copyright 2020 Gravitational, Inc.
Copyright 2021 Gravitational, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/grpc-ecosystem/grpc-gateway/v2

== License Type
Copyright (c) 2015, Gengo, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.

    * Neither the name of Gengo, Inc. nor the names of its
      contributors may be used to endorse or promote products derived from
 this
      software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2015, Gengo, Inc.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.  All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
```

```
github.com/hashicorp/consul

== License Type
SPDX:MPL-2.0

== Copyright
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright 2017 Google Inc.
Copyright Â© 2014-2018 HashiCorp, Inc.

== Notices
Copyright Â© 2014-2018 HashiCorp, Inc.

This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this project, you can
 obtain one at http://mozilla.org/MPL/2.0/.


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/consul/api

== License Type
SPDX:MPL-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2014 gRPC authors.
Copyright 2021 eventsource authors
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/consul/sdk

== License Type
SPDX:MPL-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2017 Google Inc.
Copyright 2020 Google LLC
Copyright 2021 eventsource authors
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
```

```
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/cronexpr

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 Raymond Hill

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/errwrap

== License Type
SPDX:MPL-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2017 Google Inc.
Copyright 2020 Google LLC
Copyright 2021 eventsource authors
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/go-cleanhttp

== License Type
SPDX:MPL-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2017 Google Inc.
```

```
Copyright 2020 Google LLC
Copyright 2021 eventsource authors
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/go-hclog

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2017 HashiCorp

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/go-immutable-radix

== License Type
SPDX:MPL-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2017 Google Inc.
Copyright 2020 Google LLC
Copyright 2021 eventsource authors
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/go-msgpack

== License Type
Copyright (c) 2012, 2013 Ugorji Nwoke.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the author nor the names of its contributors may be
 used
  to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012, 2013 Ugorji Nwoke.
Copyright (c) 2012, 2013 Ugorji Nwoke. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/go-multierror

== License Type
SPDX:MPL-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2017 Google Inc.
Copyright 2020 Google LLC
Copyright 2021 eventsource authors
Copyright (c) 2006, 2008 Junio C Hamano
```

```
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/go-retryablehttp

== License Type
SPDX:MPL-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2017 Google Inc.
Copyright 2020 Google LLC
Copyright 2021 eventsource authors
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/go-rootcerts

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
```

```
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/go-sockaddr

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
```

```
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/go-uuid

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
```

```
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) Microsoft Corporation
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/go-version
```

```
== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) Microsoft Corporation
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/golang-lru

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
```

```
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/hcl

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
```

```
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) Microsoft Corporation
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/memberlist

== License Type
SPDX:MPL-2.0

== Copyright
Copyright 2017 Google Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/nomad/api

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
```

```
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/raft

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
```

```
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) Microsoft Corporation
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/raft-autopilot

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
```

```
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/serf

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
```

```
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/yamux

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
```

```
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/huandu/xstrings

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015 Huan Du
Copyright 2015 Huan Du. All rights reserved.
```

```
---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/iij/doapi

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
```

```
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/imdario/mergo

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013 Dario CastaÃ±Ã©. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 Dario CastaÃ±Ã©. All rights reserved.
Copyright 2014 Dario CastaÃ±Ã©. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/improbable-eng/grpc-web

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017 Improbable. All Rights Reserved.
Copyright 2018 Improbable. All Rights Reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/influxdata/influxdb-client-go/v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2020-2021 Influxdata, Inc.
Copyright 2020-2021 InfluxData, Inc. All rights reserved.
Copyright 2020-2021 InfluxData, Inc.. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/influxdata/influxdb1-client

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2019 InfluxData
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/influxdata/line-protocol

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013-2018 InfluxData Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/infobloxopen/infoblox-go-client

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
```

```
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/instana/go-sensor

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Instana, Inc. https://www.instana.com/
Copyright (c) 2021 IBM Corp.
Copyright (c) [0-9]*~Copyright (c) $(shell date +%Y)~" LICENSE.md > $@/
LICENSE.md
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/jmespath/go-jmespath

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 James Saryerwinnie

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/joeshaw/multierror

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Joe Shaw

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/jonboulle/clockwork

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
```

```
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/josharian/intern

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2019 Josh Bleecher Snyder

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/json-iterator/go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 json-iterator

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/k0kubun/go-ansi

== License Type
SPDX:MIT
```

```
== Copyright
Copyright (c) 2014 Takashi Kokubun

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/klauspost/compress

== License Type
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------

Files: gzhttp/*

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2016-2017 The New York Times Company

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------

Files: s2/cmd/internal/readahead/*

The MIT License (MIT)

Copyright (c) 2015 Klaus Post

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------------------
Files: snappy/*
Files: internal/snapref/*

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------

Files: s2/cmd/internal/filepathx/*

Copyright 2016 The filepathx Authors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
```

```
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



== Copyright
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.\n"+
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013, Yann Collet, released under BSD License.
Copyright (c) 2015 Klaus Post
Copyright (c) 2015 Klaus Post, released under MIT License. See LICENSE file.
Copyright (c) 2016 Caleb Spare
Copyright (c) 2016 Caleb Spare.
Copyright (c) 2019 Klaus Post. All rights reserved.
Copyright (c) 2019+ Klaus Post. All rights reserved.\n\n")
Copyright (c) 2021 Klaus Post. All rights reserved.
Copyright (c) 2022+ Klaus Post. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2011 The Snappy-Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2016 The Snappy-Go Authors. All rights reserved.
Copyright 2016 The filepathx Authors
Copyright 2016-2017 The New York Times Company
Copyright 2018 Klaus Post. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019+ Klaus Post. All rights reserved.
Copyright 2020+ Klaus Post. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/kolo/xmlrpc

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2012 Dmitry Maksimov

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/kvtools/consul

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright 2014-2016 Docker, Inc.
Copyright 2021-2022 Valkeyrie authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/kvtools/etcdv3

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014-2016 Docker, Inc.
Copyright 2021-2022 Valkeyrie authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/kvtools/redis

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014-2016 Docker, Inc.
Copyright 2021-2022 Valkeyrie authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/kvtools/valkeyrie

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014-2016 Docker, Inc.
Copyright 2021-2022 Valkeyrie authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/kvtools/zookeeper

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014-2016 Docker, Inc.
Copyright 2021-2022 Valkeyrie authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/labbsr0x/bindman-dns-webhook

== License Type
```

```
SPDX:MIT

== Copyright
Copyright (c) 2018 Labbs

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/labbsr0x/goh

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2019 Abilio Esteves

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/linode/linodego

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 Christopher "Chief" Najewicz

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/liquidweb/go-lwApi

== License Type
SPDX:Apache-2.0

== Copyright
Â©2018 Liquid Web, LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/liquidweb/liquidweb-cli

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 2019 LiquidWeb
Copyright Â© LiquidWeb

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/liquidweb/liquidweb-go

== License Type
SPDX:Apache-2.0

== Copyright
```

```
Â©2018-2019 Liquid Web, LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/looplab/fsm

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2013 - Max Persson &lt;max@looplab.se>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/lucas-clemente/quic-go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 the quic-go authors & Google, Inc.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mailgun/minheap

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
```

```
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mailgun/multibuf

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
```

```
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
```

```
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mailgun/timetools

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
```

```
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mailgun/ttlmap

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
```

```
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mailru/easyjson

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2016 Mail.Ru Group

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/marten-seemann/qpack

== License Type
SPDX:MIT
```

```
== Copyright
Copyright 2019 Marten Seemann

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/marten-seemann/qtls-go1-18

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mattn/go-colorable

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Yasuhiro Matsumoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mattn/go-isatty

== License Type
SPDX:MIT

== Copyright
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/matttproud/golang_protobuf_extensions

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012 Matt T. Proud (matt.proud@gmail.com)
Copyright 2013 Matt T. Proud
Copyright 2016 Matt T. Proud

== Notices
Copyright 2012 Matt T. Proud (matt.proud@gmail.com)
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/miekg/dns

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors.  All rights reserved.
copyright (c) 2011 Miek Gieben

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mimuret/golang-iij-dpf

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2021 Manabu Sonoda

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mitchellh/copystructure

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Mitchell Hashimoto

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mitchellh/go-homedir

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Mitchell Hashimoto

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mitchellh/go-ps

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Mitchell Hashimoto
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mitchellh/go-testing-interface

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Mitchell Hashimoto

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mitchellh/hashstructure

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Mitchell Hashimoto

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mitchellh/mapstructure

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Mitchell Hashimoto

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mitchellh/reflectwalk

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Mitchell Hashimoto

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/modern-go/concurrent

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
```

```
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
```

```
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/modern-go/reflect2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
```

```
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/munnerz/goautoneg

== License Type
Copyright (c) 2011, Open Knowledge Foundation Ltd.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

    Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

    Neither the name of the Open Knowledge Foundation Ltd. nor the
    names of its contributors may be used to endorse or promote
    products derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
== Copyright
Copyright (c) 2011, Open Knowledge Foundation Ltd.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/namedotcom/go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 Name.com

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/natefinch/lumberjack

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Nate Finch

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/nrdcg/auroradns

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
```

```
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/nrdcg/desec

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
```

```
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
```

```
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/nrdcg/dnspod-go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 decker

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/nrdcg/freemyip

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
```

```
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/nrdcg/goinwx

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 Andrew

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/nrdcg/namesilo

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
```

```
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
```

```
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/nrdcg/porkbun

== License Type
SPDX:MPL-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
```

```
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/opencontainers/go-digest

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 Docker, Inc.
Copyright 2017 Docker, Inc.
Copyright 2019, 2020 OCI Contributors
Copyright 2020, 2020 OCI Contributors
Copyright Â© 2016 Docker, Inc.
Copyright Â© 2019, 2020 OCI Contributors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/opencontainers/image-spec

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) 2004, 2006 The Linux Foundation and its contributors.
Copyright 2016 The Linux Foundation
Copyright 2016 The Linux Foundation.
Copyright 2017 The Linux Foundation

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/opentracing-contrib/go-observer

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright (c) 2017 opentracing-contrib

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/opentracing/opentracing-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 The OpenTracing Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/openzipkin-contrib/zipkin-go-opentracing

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017 The OpenZipkin Authors
Copyright 2019 The OpenZipkin Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/openzipkin/zipkin-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017 The OpenZipkin Authors
Copyright 2019 The OpenZipkin Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/oracle/oci-go-sdk

== License Type
Copyright (c) 2016, 2018, 2020, Oracle and/or its affiliates.  All rights
 reserved.
This software is dual-licensed to you under the Universal Permissive License
 (UPL) 1.0 as shown at https://oss.oracle.com/licenses/upl
or Apache License 2.0 as shown at http://www.apache.org/licenses/
LICENSE-2.0. You may choose either license.
Â _____________________________
The Universal Permissive License (UPL), Version 1.0
Copyright (c) 2016, 2018, Oracle and/or its affiliates. All rights reserved.

Subject to the condition set forth below, permission is hereby granted to
 any person obtaining a copy of this software, associated documentation
 and/or data (collectively the "Software"), free of charge and under any and
 all copyright rights in the Software, and any and all patent rights owned
 or freely licensable by each licensor hereunder covering either (i) the
```

```
 unmodified Software as contributed to or provided by such licensor, or (ii)
 the Larger Works (as defined below), to deal in both

(a) the Software, and
(b) any piece of software and/or hardware listed in the lrgrwrks.txt file
 if one is included with the Software (each a "Larger Work" to which the
 Software is contributed by such licensors),

without restriction, including without limitation the rights to copy, create
 derivative works of, display, perform, and distribute the Software and
 make, use, sell, offer for sale, import, export, have made, and have sold
 the Software and the Larger Work(s), and to sublicense the foregoing rights
 on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or
 at a minimum a reference to the UPL must be included in all copies or
 substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

The Apache Software License, Version 2.0
Copyright (c) 2016, 2018, Oracle and/or its affiliates. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License"); You may not
 use this product except in compliance with the License.  You may obtain a
 copy of the License at http://www.apache.org/licenses/LICENSE-2.0.  A copy
 of the license is also reproduced below.  Unless required by applicable
 law or agreed to in writing, software distributed under the License is
 distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express or implied.  See the License for the specific language
 governing permissions and  limitations under the License.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
```

```
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
```

```
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



== Copyright
Copyright (c) 2016, 2018, 2020, Oracle and/or its affiliates.
Copyright (c) 2016, 2018, 2020, Oracle and/or its affiliates.  All rights
 reserved.
Copyright (c) 2016, 2018, Oracle and/or its affiliates. All rights reserved.

== Notices
Copyright (c) 2016, 2018, 2020, Oracle and/or its affiliates.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/ovh/go-ovh

== License Type
Copyright (c) 2015-2017, OVH SAS.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  * Neither the name of OVH SAS nor the
    names of its contributors may be used to endorse or promote products
    derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY OVH SAS AND CONTRIBUTORS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL OVH SAS AND CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
== Copyright
Copyright (c) 2015-2017, OVH SAS.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/patrickmn/go-cache

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012-2017 Patrick Mylund Nielsen and the go-cache contributors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/philhofer/fwd

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014-2015, Philip Hofer

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/pires/go-proxyproto

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Paulo Pires

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/pkg/errors

== License Type
SPDX:BSD-2-Clause

== Copyright
Copyright (c) 2015, Dave Cheney &lt;dave@cheney.net>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/pmezard/go-difflib

== License Type
Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
    The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2013, Patrick Mezard

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/pquerna/otp

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2014, Paul Querna
Copyright 2014 Paul Querna

== Notices
otp
Copyright (c) 2014, Paul Querna

This product includes software developed by
Paul Querna (http://paul.querna.org/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/client_golang

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2013, The Prometheus Authors
Copyright 2010 The Go Authors
Copyright 2012-2015 The Prometheus Authors
Copyright 2013 Matt T. Proud
```

```
Copyright 2013-2015 Blake Mizerany, BjÃ¶rn Rabenstein
Copyright 2014 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors
Copyright 2022 The Prometheus Authors

== Notices
Prometheus instrumentation library for Go applications
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


The following components are included in this product:

perks - a fork of https://github.com/bmizerany/perks
https://github.com/beorn7/perks
Copyright 2013-2015 Blake Mizerany, BjÃ¶rn Rabenstein
See https://github.com/beorn7/perks/blob/master/README.md for license
 details.

Go support for Protocol Buffers - Google's data interchange format
http://github.com/golang/protobuf/
Copyright 2010 The Go Authors
See source code for license details.

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/client_model

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012-2015 The Prometheus Authors
Copyright 2013 Prometheus Team

== Notices
Data model artifacts for Prometheus.
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/common
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2011, Open Knowledge Foundation Ltd.
Copyright 2013 The Prometheus Authors
Copyright 2014 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors

== Notices
Common libraries shared by Prometheus Go components.
Copyright 2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/procfs

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Prometheus Team
Copyright 2014-2015 The Prometheus Authors
Copyright 2017 Prometheus Team
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors

== Notices
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

Copyright 2014-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/rancher/go-rancher-metadata

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
```

```
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
```

```
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/rs/cors

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Olivier Poitrey &lt;rs@dailymotion.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/rs/zerolog

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014, 2015, 2016 Carl Jackson (carl@avtok.com)
Copyright (c) 2017 Olivier Poitrey

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/sacloud/api-client-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) 2022 The sacloud/makefile Authors.
Copyright (C) 2022 [The sacloud/api-client-go Authors](AUTHORS).
Copyright 2022 The sacloud/api-client-go Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/sacloud/go-http

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) 2021-2022 The sacloud/go-http authors.
Copyright (C) 2022 The sacloud/makefile Authors.
Copyright 2021-2022 The sacloud/go-http authors

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/sacloud/iaas-api-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) 2022 The sacloud/makefile Authors.
Copyright (C) 2022 [The sacloud/iaas-api-go Authors](AUTHORS).
Copyright 2016-2022 The sacloud/iaas-api-go Authors
Copyright 2022 The sacloud/iaas-api-go Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/sacloud/packages-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) 2022 The sacloud/makefile Authors.
Copyright (C) 2022 [The sacloud/packages-go Authors](AUTHORS).
Copyright (c) 2015 Martin Atkins
Copyright 2022 The sacloud/packages-go Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/scaleway/scaleway-sdk-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 Scaleway.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/sean-/seed

== License Type
MIT License

Copyright (c) 2017 Sean Chittenden
Copyright (c) 2016 Alex Dadgar

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

=====

Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2016 Alex Dadgar
Copyright (c) 2017 Sean Chittenden

--------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/shopspring/decimal

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Oguz Bilgic
Copyright (c) 2015 Spring, Inc.
Copyright 2009 The Go Authors. All rights reserved.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/sirupsen/logrus

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2014 Simon Eskildsen

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/smartystreets/go-aws-auth

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 SmartyStreets

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/softlayer/softlayer-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2013 Vaughan Newton
Copyright (c) 2016 IBM Corp. See the bundled LICENSE file for more
 information.
Copyright 2016 IBM Corp.
Copyright 2019 IBM Corp.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/softlayer/xmlrpc

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2012 Dmitry Maksimov

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/spf13/cast

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Steve Francia
```

```
Copyright 2011 The Go Authors. All rights reserved.
Copyright Â© 2014 Steve Francia &lt;spf@spf13.com>.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/spf13/pflag

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/spiffe/go-spiffe/v2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
```

```
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/stretchr/objx

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Stretchr, Inc.
Copyright (c) 2017-2018 objx contributors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/stretchr/testify

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/tailscale/tscert

== License Type
SPDX:BSD-3-Clause

== Copyright
Copyright (c) 2020 Tailscale & AUTHORS.
Copyright (c) 2020 Tailscale Inc & AUTHORS All rights reserved.
Copyright (c) 2021 Tailscale Inc & AUTHORS All rights reserved.
Copyright (c) 2022 Tailscale Inc & AUTHORS All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/tencentcloud/tencentcloud-sdk-go/tencentcloud/common

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2017-2018 Tencent Ltd.
Copyright (c) 2018 Tencent Ltd.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/tencentcloud/tencentcloud-sdk-go/tencentcloud/dnspod

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2017-2018 THL A29 Limited, a Tencent company. All Rights
 Reserved.
Copyright (c) 2017-2018 Tencent Ltd.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/tinylib/msgp

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2009 The Go Authors (license at http://golang.org) where
 indicated
Copyright (c) 2014 Philip Hofer

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/traefik/paerser

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright 2022 Traefik Labs

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/traefik/yaegi

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 Containous SAS
Copyright 2020 Traefik Labs SAS

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/transip/gotransip/v6

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2018 TransIP B.V.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/tv42/httpunix

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013-2015 Tommi Virtanen.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/uber/jaeger-client-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2016 Bas van Beek
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2017 The OpenTracing Authors
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2017-2018 Uber Technologies, Inc.
Copyright (c) 2018 The Jaeger Authors.
Copyright (c) 2019 The Jaeger Authors
Copyright (c) 2019 The Jaeger Authors.
Copyright (c) 2019 Uber Technologies, Inc.
Copyright (c) 2020 The Jaeger Authors.

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
github.com/uber/jaeger-lib

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2017 The Jaeger Authors.
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2018 The Jaeger Authors
Copyright (c) 2018 Uber Technologies, Inc.
Copyright (c) 2019 The Jaeger Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/unrolled/render

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Cory Jacobsen

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/unrolled/secure

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Cory Jacobsen

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/vinyldns/go-vinyldns

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 Comcast Cable Communications Management, LLC

== Notices
go-vinyldns

Copyright 2018 Comcast Cable Communications Management, LLC

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
See the License for the specific language governing permissions and
limitations under the License.

This product includes software developed at Comcast (http://
www.comcast.com/).


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/vulcand/oxy/v2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017 Mailgun Technologies Inc

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/vulcand/predicate

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014-2018 Vulcand Authors
Copyright 2016 Vulcand Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/vultr/govultr/v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2019 Vultr

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/yandex-cloud/go-genproto

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2018 YANDEX LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/yandex-cloud/go-sdk

== License Type
SPDX:MIT
```

```
== Copyright
Copyright (c) 2017 Yandex LLC. All rights reserved.
Copyright (c) 2018 YANDEX LLC
Copyright (c) 2018 Yandex LLC. All rights reserved.
Copyright (c) 2019 YANDEX LLC.
Copyright (c) 2019 Yandex LLC. All rights reserved.
Copyright (c) 2020 YANDEX LLC.
Copyright (c) 2020 Yandex LLC. All rights reserved.
Copyright (c) 2021 YANDEX LLC.
Copyright (c) 2021 Yandex LLC. All rights reserved.
Copyright 2017 gRPC authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/zeebo/errs

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 The Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
go.elastic.co/apm

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany
Copyright (c) 2012-2018 The Gorilla Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2018 Elasticsearch BV
Copyright 2018-2019 Elasticsearch B.V.

== Notices
Elastic APM Go Agent
Copyright 2018-2019 Elasticsearch B.V.

This product includes software developed at Elasticsearch, B.V. (https://
www.elastic.co/).

========================================
Third party code included by the Go Agent
========================================

-------------------------------------------------------------------------------------
This project copies code from the Go standard library (https://github.com/
golang/go)
-------------------------------------------------------------------------------------

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
This project copies code from Gorilla Mux (https://github.com/gorilla/mux)
---------------------------------------------------------------------------

Copyright (c) 2012-2018 The Gorilla Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------
This project copies code from pq (https://github.com/lib/pq)
---------------------------------------------------------------

Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
```

```
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


---------------------------------- (separator)
 -----------------------------------

== Dependency
go.elastic.co/apm/module/apmhttp

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 Elasticsearch BV

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.elastic.co/apm/module/apmot

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 Elasticsearch BV

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.elastic.co/fastjson

== License Type
Copyright 2018 Elasticsearch BV

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---
```

```
Copyright (c) 2016 Mail.Ru Group

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



== Copyright
Copyright (c) 2016 Mail.Ru Group
Copyright 2018 Elasticsearch BV

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.etcd.io/etcd/api/v3

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 The etcd Authors
Copyright 2016 The etcd Authors
Copyright 2018 The etcd Authors
Copyright 2020 The etcd Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.etcd.io/etcd/client/pkg/v3

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2013 The etcd Authors
Copyright 2015 The etcd Authors
Copyright 2016 The etcd Authors
Copyright 2017 The etcd Authors
Copyright 2018 The etcd Authors
Copyright 2019 The etcd Authors
Copyright 2021 The etcd Authors

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
go.etcd.io/etcd/client/v3

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 The etcd Authors
Copyright 2016 The etcd Authors
Copyright 2017 The etcd Authors
Copyright 2018 The etcd Authors
Copyright 2019 The etcd Authors
Copyright 2020 The etcd Authors
Copyright 2021 The etcd Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
go.opencensus.io

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017, OpenCensus Authors
Copyright 2018, OpenCensus Authors
Copyright 2019, OpenCensus Authors
Copyright 2020, OpenCensus Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
go.opentelemetry.io/otel

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
```

```
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/bridge/opentracing

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
```

```
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
```

```
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/exporters/otlp/internal/retry

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
```

```
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/exporters/otlp/otlpmetric

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
```

```
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/exporters/otlp/otlpmetric/otlpmetricgrpc

== License Type
SPDX:Apache-2.0

== Copyright
```

```
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
```

```
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
go.opentelemetry.io/otel/exporters/otlp/otlpmetric/otlpmetrichttp

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/exporters/otlp/otlptrace

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
```

```
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracegrpc

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
```

```
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracehttp

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
```

```
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/metric

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
```

```
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/sdk
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
```

```
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
go.opentelemetry.io/otel/sdk/metric

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
```

```
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/trace

== License Type
SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors. All rights reserved.
```

```
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer &lt;gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka &lt;miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO &lt;mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
```

```
go.opentelemetry.io/proto/otlp

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019, OpenTelemetry Authors
Copyright 2020, OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.uber.org/atomic

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016-2020 Uber Technologies, Inc.
Copyright (c) 2020 Uber Technologies, Inc.
Copyright (c) 2020-2021 Uber Technologies, Inc.
Copyright (c) 2020-{{.ToYear}} Uber Technologies, Inc.
Copyright (c) 2021 Uber Technologies, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.uber.org/multierr

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2017-2021 Uber Technologies, Inc.
Copyright (c) 2020 Uber Technologies, Inc.
Copyright (c) 2021 Uber Technologies, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.uber.org/ratelimit

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016,2020 Uber Technologies, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.uber.org/zap

== License Type
SPDX:MIT

== Copyright
```

```
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016, 2017 Uber Technologies, Inc.
Copyright (c) 2016-2017 Uber Technologies, Inc.
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2018 Uber Technologies, Inc.
Copyright (c) 2020 Uber Technologies, Inc.
Copyright (c) 2021 Uber Technologies, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/crypto

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright (c) 2021 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
golang.org/x/exp

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/mod

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
```

```
== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/net

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
```

```
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/oauth2

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2015 The oauth2 Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2017 The oauth2 Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The oauth2 Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/sync

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
```

```
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
```

```
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/term

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
```

```
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/time

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

```
---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/tools

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/template
\"\n\t\"golang.org/x/tools/gopls/internal/lsp/diff\"\n\t\"golang.org/x/
tools/internal/diff/difftest\"\n\t\"golang.org/x/tools/gopls/internal/span
\"\n)\n"
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/gopls/internal/
lsp/diff\"\n\t\"golang.org/x/tools/internal/diff/difftest\"\n\t\"golang.org/
x/tools/gopls/internal/span\"\n)\n"
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 2009 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
```

```
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/xerrors

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/api

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2011 Google Inc. All rights reserved.
Copyright (c) 2013 Joshua Tacoma. All rights reserved.
```

```
Copyright 2011 Google LLC. All rights reserved.
Copyright 2012 Google LLC. All rights reserved.
Copyright 2013 Google LLC. All rights reserved.
Copyright 2013 Joshua Tacoma. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 Google LLC
Copyright 2015 Google LLC.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google LLC
Copyright 2016 Google LLC.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google LLC.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 Google LLC
Copyright 2018 Google LLC.
Copyright 2018 Google LLC. All rights reserved.
Copyright 2019 Google LLC.
Copyright 2019 Google LLC. All rights reserved.
Copyright 2020 Google LLC.
Copyright 2020 Google LLC. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 Google LLC.
Copyright 2021 Google LLC. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/genproto

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2015, Google Inc.
Copyright 2015 Google LLC
Copyright 2016 Google Inc.
Copyright 2016 Google LLC
Copyright 2017 Google Inc.
Copyright 2018 Google Inc.
Copyright 2018 Google LLC
Copyright 2018 The Grafeas Authors. All rights reserved.
Copyright 2019 Google LLC.
Copyright 2019 The Grafeas Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 Google LLC.
Copyright 2021 Google LLC
Copyright 2021 Google LLC.
Copyright 2021 The Grafeas Authors. All rights reserved.
Copyright 2022 Google LLC

---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
```

```
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
```

```
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
gopkg.in/DataDog/dd-trace-go.v1

== License Type
## License

This work is dual-licensed under Apache 2.0 or BSD3.
You may select, at your option, one of the above-listed licenses.

`SPDX-License-Identifier: Apache-2.0 OR BSD-3-Clause`

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2016 Datadog, Inc.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

---

Copyright (c) 2016-Present, Datadog &lt;info@datadoghq.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of Datadog nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL &lt;COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
== Copyright
Copyright (c) 2009 The Go Authors
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2016-Present, Datadog &lt;info@datadoghq.com>
Copyright (c) 2021 Datadog &lt;info@datadoghq.com>
Copyright 2014 The Go-MySQL-Driver Authors. All rights reserved.
Copyright 2016 Datadog, Inc.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2016-2017 The OpenTracing Authors
Copyright 2016-Present Datadog, Inc.
Copyright 2021 Datadog, Inc.
Copyright 2022 Datadog, Inc.
Copyright 20[0-9]{2}[0-9,\-]* Datadog, Inc.`)

== Notices
Datadog dd-trace-go
Copyright 2016-Present Datadog, Inc.

This product includes software developed at Datadog, Inc. (https://
www.datadoghq.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/fsnotify.v1

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012 fsnotify Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/inf.v0

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 PÃ©ter SurÃ¡nyi. Portions Copyright (c) 2009 The Go

---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/ini.v1

== License Type
SPDX:Apache-2.0

== Copyright
```

```
Copyright 2014 Unknwon
Copyright 2015 Unknwon
Copyright 2016 Unknwon
Copyright 2017 Unknwon
Copyright 2019 Unknwon

---------------------------------- (separator)
 ----------------------------------

== Dependency
gopkg.in/ns1/ns1-go.v2

== License Type
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
```

```
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
```

```
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



APACHE HTTP SERVER SUBCOMPONENTS:

The Apache HTTP Server includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

For the mod_mime_magic component:

/*
 * mod_mime_magic: MIME type lookup via file magic numbers
 * Copyright (c) 1996-1997 Cisco Systems, Inc.
 *
 * This software was submitted by Cisco Systems to the Apache Group in July
 * 1997.  Future revisions and derivatives of this source code must
 * acknowledge Cisco Systems as the original contributor of this module.
 * All other licensing and usage conditions are those of the Apache Group.
 *
 * Some of this code is derived from the free version of the file command
 * originally posted to comp.sources.unix.  Copyright info for that program
 * is included below as required.
 *
 ---------------------------------------------------------------------------
 * - Copyright (c) Ian F. Darwin, 1987. Written by Ian F. Darwin.
 *
 * This software is not subject to any license of the American Telephone and
 * Telegraph Company or of the Regents of the University of California.
 *
 * Permission is granted to anyone to use this software for any purpose on
 any
 * computer system, and to alter it and redistribute it freely, subject to
 * the following restrictions:
 *
 * 1. The author is not responsible for the consequences of use of this
 * software, no matter how awful, even if they arise from flaws in it.
 *
 * 2. The origin of this software must not be misrepresented, either by
```

```
 * explicit claim or by omission.  Since few users ever read sources,
 credits
 * must appear in the documentation.
 *
 * 3. Altered versions must be plainly marked as such, and must not be
 * misrepresented as being the original software.  Since few users ever read
 * sources, credits must appear in the documentation.
 *
 * 4. This notice may not be removed or altered.
 * -------------------------------------------------------------------------
 *
 */


For the  modules\mappers\mod_imap.c component:

  "macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

For the  server\util_md5.c component:

/*********************************************************************
 * NCSA HTTPd Server
 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
 * Copyright  (C)  1995, Board of Trustees of the University of Illinois
 *
 *********************************************************************
 *
 * md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
 *
 *  Original Code Copyright (C) 1994, Jeff Hostetler, Spyglass, Inc.
 *  Portions of Content-MD5 code Copyright (C) 1993, 1994 by Carnegie Mellon
 *     University (see Copyright below).
 *  Portions of Content-MD5 code Copyright (C) 1991 Bell Communications
 *     Research, Inc. (Bellcore) (see Copyright below).
 *  Portions extracted from mpack, John G. Myers - jgm+@cmu.edu
 *  Content-MD5 Code contributed by Martin Hamilton (martin@net.lut.ac.uk)
 *
 */


/* these portions extracted from mpack, John G. Myers - jgm+@cmu.edu */
/* (C) Copyright 1993,1994 by Carnegie Mellon University
 * All Rights Reserved.
 *
 * Permission to use, copy, modify, distribute, and sell this software
 * and its documentation for any purpose is hereby granted without
 * fee, provided that the above copyright notice appear in all copies
 * and that both that copyright notice and this permission notice
 * appear in supporting documentation, and that the name of Carnegie
 * Mellon University not be used in advertising or publicity
 * pertaining to distribution of the software without specific,
 * written prior permission.  Carnegie Mellon University makes no
 * representations about the suitability of this software for any
 * purpose.  It is provided "as is" without express or implied
 * warranty.
 *
 * CARNEGIE MELLON UNIVERSITY DISCLAIMS ALL WARRANTIES WITH REGARD TO
 * THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS, IN NO EVENT SHALL CARNEGIE MELLON UNIVERSITY BE LIABLE
```

```
 * FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN
 * AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING
 * OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
 * SOFTWARE.
 */

/*
 * Copyright (c) 1991 Bell Communications Research, Inc. (Bellcore)
 *
 * Permission to use, copy, modify, and distribute this material
 * for any purpose and without fee is hereby granted, provided
 * that the above copyright notice and this permission notice
 * appear in all copies, and that the name of Bellcore not be
 * used in advertising or publicity pertaining to this
 * material without the specific, prior written permission
 * of an authorized representative of Bellcore.  BELLCORE
 * MAKES NO REPRESENTATIONS ABOUT THE ACCURACY OR SUITABILITY
 * OF THIS MATERIAL FOR ANY PURPOSE.  IT IS PROVIDED "AS IS",
 * WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES.
 */

For the  srclib\apr\include\apr_md5.h component:
/*
 * This is work is derived from material Copyright RSA Data Security, Inc.
 *
 * The RSA copyright statement and Licence for that original material is
 * included below. This is followed by the Apache copyright statement and
 * licence for the modifications made to that material.
 */

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
   rights reserved.

   License to copy and use this software is granted provided that it
   is identified as the "RSA Data Security, Inc. MD5 Message-Digest
   Algorithm" in all material mentioning or referencing this software
   or this function.

   License is also granted to make and use derivative works provided
   that such works are identified as "derived from the RSA Data
   Security, Inc. MD5 Message-Digest Algorithm" in all material
   mentioning or referencing the derived work.

   RSA Data Security, Inc. makes no representations concerning either
   the merchantability of this software or the suitability of this
   software for any particular purpose. It is provided "as is"
   without express or implied warranty of any kind.

   These notices must be retained in any copies of any part of this
   documentation and/or software.
 */

For the  srclib\apr\passwd\apr_md5.c component:

/*
 * This is work is derived from material Copyright RSA Data Security, Inc.
 *
 * The RSA copyright statement and Licence for that original material is
 * included below. This is followed by the Apache copyright statement and
 * licence for the modifications made to that material.
 */

/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm
```

```
 */

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
   rights reserved.

   License to copy and use this software is granted provided that it
   is identified as the "RSA Data Security, Inc. MD5 Message-Digest
   Algorithm" in all material mentioning or referencing this software
   or this function.

   License is also granted to make and use derivative works provided
   that such works are identified as "derived from the RSA Data
   Security, Inc. MD5 Message-Digest Algorithm" in all material
   mentioning or referencing the derived work.

   RSA Data Security, Inc. makes no representations concerning either
   the merchantability of this software or the suitability of this
   software for any particular purpose. It is provided "as is"
   without express or implied warranty of any kind.

   These notices must be retained in any copies of any part of this
   documentation and/or software.
 */
/*
 * The apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
 * MD5 crypt() function, which is licenced as follows:
 *
 ----------------------------------------------------------------------------
 * "THE BEER-WARE LICENSE" (Revision 42):
 * &lt;phk@login.dknet.dk> wrote this file.  As long as you retain this
 notice you
 * can do whatever you want with this stuff. If we meet some day, and you
 think
 * this stuff is worth it, you can buy me a beer in return.  Poul-Henning
 Kamp
 *
 ----------------------------------------------------------------------------
 */

For the srclib\apr-util\crypto\apr_md4.c component:

 * This is derived from material copyright RSA Data Security, Inc.
 * Their notice is reproduced below in its entirety.
 *
 * Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
 * rights reserved.
 *
 * License to copy and use this software is granted provided that it
 * is identified as the "RSA Data Security, Inc. MD4 Message-Digest
 * Algorithm" in all material mentioning or referencing this software
 * or this function.
 *
 * License is also granted to make and use derivative works provided
 * that such works are identified as "derived from the RSA Data
 * Security, Inc. MD4 Message-Digest Algorithm" in all material
 * mentioning or referencing the derived work.
 *
 * RSA Data Security, Inc. makes no representations concerning either
 * the merchantability of this software or the suitability of this
 * software for any particular purpose. It is provided "as is"
 * without express or implied warranty of any kind.
 *
 * These notices must be retained in any copies of any part of this
 * documentation and/or software.
```

```
 */

For the srclib\apr-util\include\apr_md4.h component:

 *
 * This is derived from material copyright RSA Data Security, Inc.
 * Their notice is reproduced below in its entirety.
 *
 * Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
 * rights reserved.
 *
 * License to copy and use this software is granted provided that it
 * is identified as the "RSA Data Security, Inc. MD4 Message-Digest
 * Algorithm" in all material mentioning or referencing this software
 * or this function.
 *
 * License is also granted to make and use derivative works provided
 * that such works are identified as "derived from the RSA Data
 * Security, Inc. MD4 Message-Digest Algorithm" in all material
 * mentioning or referencing the derived work.
 *
 * RSA Data Security, Inc. makes no representations concerning either
 * the merchantability of this software or the suitability of this
 * software for any particular purpose. It is provided "as is"
 * without express or implied warranty of any kind.
 *
 * These notices must be retained in any copies of any part of this
 * documentation and/or software.
 */


For the srclib\apr-util\test\testdbm.c component:

/* ====================================================================
 * The Apache Software License, Version 1.1
 *
 * Copyright (c) 2000-2002 The Apache Software Foundation.  All rights
 * reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. The end-user documentation included with the redistribution,
 *    if any, must include the following acknowledgment:
 *       "This product includes software developed by the
 *        Apache Software Foundation (http://www.apache.org/)."
 *    Alternately, this acknowledgment may appear in the software itself,
 *    if and wherever such third-party acknowledgments normally appear.
 *
 * 4. The names "Apache" and "Apache Software Foundation" must
 *    not be used to endorse or promote products derived from this
 *    software without prior written permission. For written
 *    permission, please contact apache@apache.org.
 *
 * 5. Products derived from this software may not be called "Apache",
```

```
 *    nor may "Apache" appear in their name, without prior written
 *    permission of the Apache Software Foundation.
 *
 * THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 * DISCLAIMED.  IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 * USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 * ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
 * OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 * OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 * ====================================================================
 *
 * This software consists of voluntary contributions made by many
 * individuals on behalf of the Apache Software Foundation.  For more
 * information on the Apache Software Foundation, please see
 * &lt;http://www.apache.org/>.
 *
 * This file came from the SDBM package (written by oz@nexus.yorku.ca).
 * That package was under public domain. This file has been ported to
 * APR, updated to ANSI C and other, newer idioms, and added to the Apache
 * codebase under the above copyright and license.
 */


For the srclib\apr-util\test\testmd4.c component:

 *
 * This is derived from material copyright RSA Data Security, Inc.
 * Their notice is reproduced below in its entirety.
 *
 * Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All
 * rights reserved.
 *
 * RSA Data Security, Inc. makes no representations concerning either
 * the merchantability of this software or the suitability of this
 * software for any particular purpose. It is provided "as is"
 * without express or implied warranty of any kind.
 *
 * These notices must be retained in any copies of any part of this
 * documentation and/or software.
 */

For the srclib\apr-util\xml\expat\conftools\install-sh component:

#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
# Copyright 1991 by the Massachusetts Institute of Technology
#
# Permission to use, copy, modify, distribute, and sell this software and
 its
# documentation for any purpose is hereby granted without fee, provided that
# the above copyright notice appear in all copies and that both that
# copyright notice and this permission notice appear in supporting
# documentation, and that the name of M.I.T. not be used in advertising or
# publicity pertaining to distribution of the software without specific,
# written prior permission.  M.I.T. makes no representations about the
# suitability of this software for any purpose.  It is provided "as is"
```

```
# without express or implied warranty.
#

For the srclib\pcre\install-sh component:

#
# Copyright 1991 by the Massachusetts Institute of Technology
#
# Permission to use, copy, modify, distribute, and sell this software and
 its
# documentation for any purpose is hereby granted without fee, provided that
# the above copyright notice appear in all copies and that both that
# copyright notice and this permission notice appear in supporting
# documentation, and that the name of M.I.T. not be used in advertising or
# publicity pertaining to distribution of the software without specific,
# written prior permission.  M.I.T. makes no representations about the
# suitability of this software for any purpose.  It is provided "as is"
# without express or implied warranty.

For the pcre component:

PCRE LICENCE
------------

PCRE is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language.

Written by: Philip Hazel &lt;ph10@cam.ac.uk>

University of Cambridge Computing Service,
Cambridge, England. Phone: +44 1223 334714.

Copyright (c) 1997-2001 University of Cambridge

Permission is granted to anyone to use this software for any purpose on any
computer system, and to redistribute it freely, subject to the following
restrictions:

1. This software is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

2. The origin of this software must not be misrepresented, either by
   explicit claim or by omission. In practice, this means that if you use
   PCRE in software which you distribute to others, commercially or
   otherwise, you must put a sentence like this

     Regular expression support is provided by the PCRE library package,
     which is open source software, written by Philip Hazel, and copyright
     by the University of Cambridge, England.

   somewhere reasonably visible in your documentation and in any relevant
   files or online help data or similar. A reference to the ftp site for
   the source, that is, to

     ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/

   should also be given in the documentation.

3. Altered versions must be plainly marked as such, and must not be
   misrepresented as being the original software.

4. If PCRE is embedded in any software that is released under the GNU
   General Purpose Licence (GPL), or Lesser General Purpose Licence (LGPL),
```

```
   then the terms of that licence shall supersede any condition above with
   which it is incompatible.

The documentation for PCRE, supplied in the "doc" directory, is distributed
under the same terms as the software itself.

End PCRE LICENCE


For the test\zb.c component:

/*                          ZeusBench V1.01
       ===============

This program is Copyright (C) Zeus Technology Limited 1996.

This program may be used and copied freely providing this copyright notice
is not removed.

This software is provided "as is" and any express or implied waranties,
including but not limited to, the implied warranties of merchantability and
fitness for a particular purpose are disclaimed.  In no event shall
Zeus Technology Ltd. be liable for any direct, indirect, incidental,
 special,
exemplary, or consequential damaged (including, but not limited to,
procurement of substitute good or services; loss of use, data, or profits;
or business interruption) however caused and on theory of liability.
 Whether
in contract, strict liability or tort (including negligence or otherwise)
arising in any way out of the use of this software, even if advised of the
possibility of such damage.

     Written by Adam Twiss (adam@zeus.co.uk).  March 1996

Thanks to the following people for their input:
  Mike Belshe (mbelshe@netscape.com)
  Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
                               and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
=====================================================================



== Copyright
Copyright  (C)  1995, Board of Trustees of the University of Illinois
Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All
Copyright (C) 1991 Bell Communications
Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
Copyright (C) 1993, 1994 by Carnegie Mellon
Copyright (C) 1994, Jeff Hostetler, Spyglass, Inc.
Copyright (C) Zeus Technology Limited 1996.
Copyright (c) 1991 Bell Communications Research, Inc. (Bellcore)
Copyright (c) 1996-1997 Cisco Systems, Inc.
Copyright (c) 1997-2001 University of Cambridge
Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
Copyright (c) 2000-2002 The Apache Software Foundation.  All rights
Copyright (c) Ian F. Darwin, 1987. Written by Ian F. Darwin.
Copyright 1991 by the Massachusetts Institute of Technology
Copyright 1993,1994 by Carnegie Mellon University
copyright 1992 by Eric Haines, erich@eye.com

---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/square/go-jose.v2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2014 Square Inc.
Copyright 2016 Square, Inc.
Copyright 2016 Zbigniew Mandziejewicz
Copyright 2017 Square Inc.
Copyright 2018 Square Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/yaml.v2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2006 Kirill Simonov
Copyright 2011-2016 Canonical Ltd.

== Notices
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 ----------------------------------

== Dependency
gopkg.in/yaml.v3

== License Type

This project is covered by two different licenses: MIT and Apache.

#### MIT License ####

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

    apic.go emitterc.go parserc.go readerc.go scannerc.go
    writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

### Apache License ###

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



== Copyright
Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov
Copyright (c) 2011-2019 Canonical Ltd
Copyright 2011-2016 Canonical Ltd.

== Notices
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


--------------------------------- (separator)
 -----------------------------------

== Dependency
howett.net/plist

== License Type
Copyright (c) 2013, Dustin L. Howett. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are
 those
of the authors and should not be interpreted as representing official
 policies,
either expressed or implied, of the FreeBSD Project.

--------------------------------------------------------------------------------
Parts of this package were made available under the license covering
the Go language and all attended core libraries. That license follows.
--------------------------------------------------------------------------------

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013, Dustin L. Howett. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
k8s.io/api

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
```

```
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/apiextensions-apiserver

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 Google LLC
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 Google LLC
Copyright 2022 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/apimachinery

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/client-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
```

```
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/klog/v2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 Google Inc. All Rights Reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 Intel Coporation.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/kube-openapi

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) MongoDB, Inc. 2017-present.
Copyright 2015 go-swagger maintainers
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2017 go-swagger maintainers
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/utils

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2013 Google Inc.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
```

```
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
mvdan.cc/xurls/v2

== License Type
Copyright (c) 2015, Daniel MartÃ-. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2015, Daniel MartÃ &lt;mvdan@mvdan.cc>
Copyright (c) 2015, Daniel MartÃ-. All rights reserved.
Copyright (c) 2017, Shreyas Khare &lt;skhare@rapid7.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
nhooyr.io/websocket

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2018 Anmol Sethi

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/gateway-api
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/json

== License Type
Files other than internal/golang/* licensed under:


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
```

```
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
```

```
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
```

```
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


------------------

internal/golang/* files licensed under:


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2021 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/structured-merge-diff/v4

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/yaml

== License Type
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2014 Sam Ghods
Copyright 2013 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
traefik

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2006, Ivan Sagalaev
Copyright (c) 2016-2020 Containous SAS; 2020-2022 Traefik Labs

------------------------------------ Licenses
 -----------------------------------

---------------------------------- (separator)
 -----------------------------------
== SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
```

```
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
```

```
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.
```

```
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by
 You to the Licensor shall be under the terms and conditions of this
 License, without any additional terms or conditions. Notwithstanding the
 above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may have executed with Licensor regarding such
 Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
```

```
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.



---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---------------------------------- (separator)
 -----------------------------------
== SPDX:MPL-2.0

Mozilla Public License Version 2.0

1. Definitions

1.1. "Contributor" means each individual or legal entity that creates,
contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version" means the combination of the Contributions of
others (if any) used by a Contributor and that particular Contributor&apos;s
Contribution.

1.3. "Contribution" means Covered Software of a particular Contributor.

1.4. "Covered Software" means Source Code Form to which the initial
Contributor has attached the notice in Exhibit A, the Executable Form of
 such
Source Code Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses" means

(a) that the initial Contributor has attached the notice described in
 Exhibit
B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version
1.1 or earlier of the License, but not also under the terms of a Secondary
License.

1.6. "Executable Form" means any form of the work other than Source Code
 Form.

1.7. "Larger Work" means a work that combines Covered Software with other
material, in a separate file or files, that is not Covered Software.

1.8. "License" means this document.

1.9. "Licensable" means having the right to grant, to the maximum extent
possible, whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.
```

```
1.10. "Modifications" means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion
from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including
without limitation, method, process, and apparatus claims, in any patent
Licensable by such Contributor that would be infringed, but for the grant of
the License, by the making, using, selling, offering for sale, having made,
import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License,
 Version
2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero
General Public License, Version 3.0, or any later versions of those
 licenses.

1.13. "Source Code Form" means the form of the work preferred for making
modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising
rights under this License. For legal entities, "You" includes any entity
 that
controls, is controlled by, or is under common control with You. For
 purposes
of this definition, "control" means (a) the power, direct or indirect, to
cause the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available, modify,
display, perform, distribute, and otherwise exploit its Contributions,
 either
on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its Contributions or
its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become
effective for each Contribution on the date the Contributor first
 distributes
such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this
License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
```

```
Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party&apos;s
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
 Version);
or

(c) under Patent Claims infringed by Covered Software in the absence of its
Contributions.

This License does not grant any rights in the trademarks, service marks, or
logos of any Contributor (except as may be necessary to comply with the
 notice
requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this License
(see Section 10.2) or under the terms of a Secondary License (if permitted
under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions
are its original creation(s) or it has sufficient rights to grant the rights
to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable
copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under the
terms of this License. You must inform recipients that the Source Code Form
 of
the Covered Software is governed by the terms of this License, and how they
can obtain a copy of this License. You may not attempt to alter or restrict
the recipients&apos; rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form,
 as
described in Section 3.1, and You must inform recipients of the Executable
Form how they can obtain a copy of such Source Code Form by reasonable means
in a timely manner, at a charge no more than the cost of distribution to the
recipient; and
```

```
(b) You may distribute such Executable Form under the terms of this License,
or sublicense it under different terms, provided that the license for the
Executable Form does not attempt to limit or alter the recipients&apos;
 rights
in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for the
Covered Software. If the Larger Work is a combination of Covered Software
 with
a work governed by one or more Secondary Licenses, and the Covered Software
 is
not Incompatible With Secondary Licenses, this License permits You to
additionally distribute such Covered Software under the terms of such
Secondary License(s), so that the recipient of the Larger Work may, at their
option, further distribute the Covered Software under the terms of either
 this
License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including
copyright notices, patent notices, disclaimers of warranty, or limitations
 of
liability) contained within the Source Code Form of the Covered Software,
except that You may alter any license notices to the extent required to
 remedy
known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity
or liability obligations to one or more recipients of Covered Software.
However, You may do so only on Your own behalf, and not on behalf of any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity, or liability obligation is offered by You alone, and You
hereby agree to indemnify every Contributor for any liability incurred by
 such
Contributor as a result of warranty, support, indemnity or liability terms
 You
offer. You may include additional disclaimers of warranty and limitations of
liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute, judicial
order, or regulation then You must: (a) comply with the terms of this
 License
to the maximum extent possible; and (b) describe the limitations and the
 code
they affect. Such description must be placed in a text file included with
 all
distributions of the Covered Software under this License. Except to the
 extent
prohibited by statute or regulation, such description must be sufficiently
detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
```

```
fail to comply with any of its terms. However, if You become compliant, then
the rights granted under this License from a particular Contributor are
reinstated (a) provisionally, unless and until such Contributor explicitly
 and
finally terminates Your grants, and (b) on an ongoing basis, if such
Contributor fails to notify You of the non-compliance by some reasonable
 means
prior to 60 days after You have come back into compliance. Moreover, Your
grants from a particular Contributor are reinstated on an ongoing basis if
such Contributor notifies You of the non-compliance by some reasonable
 means,
this is the first time You have received notice of non-compliance with this
License from such Contributor, and You become compliant prior to 30 days
 after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions, counter-claims,
and cross-claims) alleging that a Contributor Version directly or indirectly
infringes any patent, then the rights granted to You by any and all
Contributors for the Covered Software under Section 2.1 of this License
 shall
terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
warranty of any kind, either expressed, implied, or statutory, including,
without limitation, warranties that the Covered Software is free of defects,
merchantable, fit for a particular purpose or non-infringing. The entire
 risk
as to the quality and performance of the Covered Software is with You.
 Should
any Covered Software prove defective in any respect, You (not any
 Contributor)
assume the cost of any necessary servicing, repair, or correction. This
disclaimer of warranty constitutes an essential part of this License. No use
of any Covered Software is authorized under this License except under this
disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
 other
commercial damages or losses, even if such party shall have been informed of
the possibility of such damages. This limitation of liability shall not
 apply
to liability for death or personal injury resulting from such party&apos;s
negligence to the extent applicable law prohibits such limitation. Some
jurisdictions do not allow the exclusion or limitation of incidental or
consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation
```

```
Any litigation relating to this License may be brought only in the courts of
 a
jurisdiction where the defendant maintains its principal place of business
 and
such litigation shall be governed by laws of that jurisdiction, without
reference to its conflict-of-law provisions. Nothing in this Section shall
prevent a party&apos;s ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. Any law or regulation which provides that the language of a
contract shall be construed against the drafter shall not be used to
 construe
this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
 10.3,
no one other than the license steward has the right to modify or publish new
versions of this License. Each version will be given a distinguishing
 version
number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of
 the
License under which You originally received the Covered Software, or under
 the
terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create
 a
new license for such software, you may create and use a modified version of
this License if you rename the license and remove any references to the name
of the license steward (except to note that such modified license differs
 from
this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
 notice
described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.
```

```
You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by
the Mozilla Public License, v. 2.0.
```

Provider: Contributors / Component(s): textstat 0.7.4

```
------------------------------- Top-level license -------------------------
=== ========================================================================

textstat

MIT License
-------------

Copyright (c) 2016 Shivam Bansal (shivam5992@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

=== ========================================================================
---------------------------- Fourth-party information ----------------------
=== ========================================================================

--------------- Fourth-party license --------------------

== Pyphen

== GPL 2.0+/LGPL 2.1+/MPL 1.1 tri-license.

Oracle elects the MPL 1.1.
-------------

Pyphen is released under the GPL 2.0+/LGPL 2.1+/MPL 1.1 tri-license.
See COPYING.GPL, COPYING.LGPL and COPYING.MPL for more details.

Many dictionaries are included in pyphen, they come from the LibreOffice git
```

```
repository and are distributed under GPL, LGPL and/or MPL. See the
dictionaries and the libreoffice's repository for more details.

http://cgit.freedesktop.org/libreoffice/dictionaries/tree/

Pyphen is a pure Python module to hyphenate text using existing Hunspell
 hyphenation dictionaries.

This module is a fork of python-hyphenator, written by Wilbert Berendsen.

Many dictionaries are included in pyphen, they come from the LibreOffice git
 repository and are distributed under GPL, LGPL and/or MPL. Dictionaries
 are not modified in this repository. See the dictionaries and LibreOffice's
 repository for more details.

https://cgit.freedesktop.org/libreoffice/dictionaries/tree/

    Free software: GPL 2.0+/LGPL 2.1+/MPL 1.1 tri-license
    For Python 3.7+, tested on CPython and PyPy
    Documentation: https://doc.courtbouillon.org/pyphen
    Changelog: https://github.com/Kozea/pyphen/releases
    Code, issues, tests: https://github.com/Kozea/pyphen
    Code of conduct: https://www.courtbouillon.org/code-of-conduct
    Professional support: https://www.courtbouillon.org
    Donation: https://opencollective.com/courtbouillon

Pyphen has been created and developed by Kozea (https://kozea.fr).
 Professional support, maintenance and community management is provided by
 CourtBouillon (https://www.courtbouillon.org).

Copyrights are retained by their contributors, no copyright assignment
 is required to contribute to Pyphen. Unless explicitly stated otherwise,
 any contribution intentionally submitted for inclusion is licensed under
 GPL 2.0+/LGPL 2.1+/MPL 1.1, without any additional terms or conditions. For full
 authorship information, see the version control history.

--------------- Fourth-party license --------------------

       GNU GENERAL PUBLIC LICENSE
          Version 2, June 1991

  Copyright (C) 1989, 1991 Free Software Foundation, Inc.
      59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
  Everyone is permitted to copy and distribute verbatim copies
  of this license document, but changing it is not allowed.

        Preamble

   The licenses for most software are designed to take away your
 freedom to share and change it.  By contrast, the GNU General Public
 License is intended to guarantee your freedom to share and change free
 software--to make sure the software is free for all its users.  This
 General Public License applies to most of the Free Software
 Foundation's software and to any other program whose authors commit to
 using it.  (Some other Free Software Foundation software is covered by
 the GNU Library General Public License instead.)  You can apply it to
 your programs, too.

   When we speak of free software, we are referring to freedom, not
 price.  Our General Public Licenses are designed to make sure that you
 have the freedom to distribute copies of free software (and charge for
 this service if you wish), that you receive source code or can get it
 if you want it, that you can change the software or use pieces of it
 in new free programs; and that you know you can do these things.
```

```
  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

      GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
```

```
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange;
or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)
```

```
The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
```

```
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free
Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

       NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

       END OF TERMS AND CONDITIONS
```

```
     How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    one line to give the program's name and a brief idea of what it does.
    Copyright (C) year  name of author

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
USA


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year  name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  signature of Ty Coon, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.

--------------- Fourth-party license --------------------
```

```
                  GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.
^L
  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
```

```
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it
becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.
^L
                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
```

```
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control
compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)
```

```
These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.
^L
  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
```

```
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.
```

```
  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
^L
  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.
^L
  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
```

```
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply, and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License
may add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.
^L
  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
```

```
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                     END OF TERMS AND CONDITIONS
^L
           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

  To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.


    <one line to give the library's name and a brief idea of what it
does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307  USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice
```

```
That's all there is to it!

--------------- Fourth-party license --------------------

                         MOZILLA PUBLIC LICENSE
                               Version 1.1

                             ---------------

1. Definitions.

     1.0.1. "Commercial Use" means distribution or otherwise making the
     Covered Code available to a third party.

     1.1. "Contributor" means each entity that creates or contributes to
     the creation of Modifications.

     1.2. "Contributor Version" means the combination of the Original
     Code, prior Modifications used by a Contributor, and the Modifications
     made by that particular Contributor.

     1.3. "Covered Code" means the Original Code or Modifications or the
     combination of the Original Code and Modifications, in each case
     including portions thereof.

     1.4. "Electronic Distribution Mechanism" means a mechanism generally
     accepted in the software development community for the electronic
     transfer of data.

     1.5. "Executable" means Covered Code in any form other than Source
     Code.

     1.6. "Initial Developer" means the individual or entity identified
     as the Initial Developer in the Source Code notice required by Exhibit
     A.

     1.7. "Larger Work" means a work which combines Covered Code or
     portions thereof with code not governed by the terms of this License.

     1.8. "License" means this document.

     1.8.1. "Licensable" means having the right to grant, to the maximum
     extent possible, whether at the time of the initial grant or
     subsequently acquired, any and all of the rights conveyed herein.

     1.9. "Modifications" means any addition to or deletion from the
     substance or structure of either the Original Code or any previous
     Modifications. When Covered Code is released as a series of files, a
     Modification is:
          A. Any addition to or deletion from the contents of a file
          containing Original Code or previous Modifications.

          B. Any new file that contains any part of the Original Code or
          previous Modifications.

     1.10. "Original Code" means Source Code of computer software code
     which is described in the Source Code notice required by Exhibit A as
     Original Code, and which, at the time of its release under this
     License is not already Covered Code governed by this License.

     1.10.1. "Patent Claims" means any patent claim(s), now owned or
     hereafter acquired, including without limitation,  method, process,
     and apparatus claims, in any patent Licensable by grantor.
```

```
     1.11. "Source Code" means the preferred form of the Covered Code for
     making modifications to it, including all modules it contains, plus
     any associated interface definition files, scripts used to control
     compilation and installation of an Executable, or source code
     differential comparisons against either the Original Code or another
     well known, available Covered Code of the Contributor's choice. The
     Source Code can be in a compressed or archival form, provided the
     appropriate decompression or de-archiving software is widely available
     for no charge.

     1.12. "You" (or "Your")  means an individual or a legal entity
     exercising rights under, and complying with all of the terms of, this
     License or a future version of this License issued under Section 6.1.
     For legal entities, "You" includes any entity which controls, is
     controlled by, or is under common control with You. For purposes of
     this definition, "control" means (a) the power, direct or indirect,
     to cause the direction or management of such entity, whether by
     contract or otherwise, or (b) ownership of more than fifty percent
     (50%) of the outstanding shares or beneficial ownership of such
     entity.

2. Source Code License.

     2.1. The Initial Developer Grant.
     The Initial Developer hereby grants You a world-wide, royalty-free,
     non-exclusive license, subject to third party intellectual property
     claims:
          (a)  under intellectual property rights (other than patent or
          trademark) Licensable by Initial Developer to use, reproduce,
          modify, display, perform, sublicense and distribute the Original
          Code (or portions thereof) with or without Modifications, and/or
          as part of a Larger Work; and

          (b) under Patents Claims infringed by the making, using or
          selling of Original Code, to make, have made, use, practice,
          sell, and offer for sale, and/or otherwise dispose of the
          Original Code (or portions thereof).

          (c) the licenses granted in this Section 2.1(a) and (b) are
          effective on the date Initial Developer first distributes
          Original Code under the terms of this License.

          (d) Notwithstanding Section 2.1(b) above, no patent license is
          granted: 1) for code that You delete from the Original Code; 2)
          separate from the Original Code;  or 3) for infringements caused
          by: i) the modification of the Original Code or ii) the
          combination of the Original Code with other software or devices.

     2.2. Contributor Grant.
     Subject to third party intellectual property claims, each Contributor
     hereby grants You a world-wide, royalty-free, non-exclusive license

          (a)  under intellectual property rights (other than patent or
          trademark) Licensable by Contributor, to use, reproduce, modify,
          display, perform, sublicense and distribute the Modifications
          created by such Contributor (or portions thereof) either on an
          unmodified basis, with other Modifications, as Covered Code
          and/or as part of a Larger Work; and

          (b) under Patent Claims infringed by the making, using, or
          selling of  Modifications made by that Contributor either alone
          and/or in combination with its Contributor Version (or portions
          of such combination), to make, use, sell, offer for sale, have
          made, and/or otherwise dispose of: 1) Modifications made by that
```

```
            Contributor (or portions thereof); and 2) the combination of
            Modifications made by that Contributor with its Contributor
            Version (or portions of such combination).

            (c) the licenses granted in Sections 2.2(a) and 2.2(b) are
            effective on the date Contributor first makes Commercial Use of
            the Covered Code.

            (d)    Notwithstanding Section 2.2(b) above, no patent license is
            granted: 1) for any code that Contributor has deleted from the
            Contributor Version; 2)  separate from the Contributor Version;
            3)  for infringements caused by: i) third party modifications of
            Contributor Version or ii)  the combination of Modifications made
            by that Contributor with other software  (except as part of the
            Contributor Version) or other devices; or 4) under Patent Claims
            infringed by Covered Code in the absence of Modifications made by
            that Contributor.

3. Distribution Obligations.

     3.1. Application of License.
     The Modifications which You create or to which You contribute are
     governed by the terms of this License, including without limitation
     Section 2.2. The Source Code version of Covered Code may be
     distributed only under the terms of this License or a future version
     of this License released under Section 6.1, and You must include a
     copy of this License with every copy of the Source Code You
     distribute. You may not offer or impose any terms on any Source Code
     version that alters or restricts the applicable version of this
     License or the recipients' rights hereunder. However, You may include
     an additional document offering the additional rights described in
     Section 3.5.

     3.2. Availability of Source Code.
     Any Modification which You create or to which You contribute must be
     made available in Source Code form under the terms of this License
     either on the same media as an Executable version or via an accepted
     Electronic Distribution Mechanism to anyone to whom you made an
     Executable version available; and if made available via Electronic
     Distribution Mechanism, must remain available for at least twelve (12)
     months after the date it initially became available, or at least six
     (6) months after a subsequent version of that particular Modification
     has been made available to such recipients. You are responsible for
     ensuring that the Source Code version remains available even if the
     Electronic Distribution Mechanism is maintained by a third party.

     3.3. Description of Modifications.
     You must cause all Covered Code to which You contribute to contain a
     file documenting the changes You made to create that Covered Code and
     the date of any change. You must include a prominent statement that
     the Modification is derived, directly or indirectly, from Original
     Code provided by the Initial Developer and including the name of the
     Initial Developer in (a) the Source Code, and (b) in any notice in an
     Executable version or related documentation in which You describe the
     origin or ownership of the Covered Code.

     3.4. Intellectual Property Matters
          (a) Third Party Claims.
          If Contributor has knowledge that a license under a third party's
          intellectual property rights is required to exercise the rights
          granted by such Contributor under Sections 2.1 or 2.2,
          Contributor must include a text file with the Source Code
          distribution titled "LEGAL" which describes the claim and the
          party making the claim in sufficient detail that a recipient will
```

```
        know whom to contact. If Contributor obtains such knowledge after
        the Modification is made available as described in Section 3.2,
        Contributor shall promptly modify the LEGAL file in all copies
        Contributor makes available thereafter and shall take other steps
        (such as notifying appropriate mailing lists or newsgroups)
        reasonably calculated to inform those who received the Covered
        Code that new knowledge has been obtained.

        (b) Contributor APIs.
        If Contributor's Modifications include an application programming
        interface and Contributor has knowledge of patent licenses which
        are reasonably necessary to implement that API, Contributor must
        also include this information in the LEGAL file.

             (c)    Representations.
        Contributor represents that, except as disclosed pursuant to
        Section 3.4(a) above, Contributor believes that Contributor's
        Modifications are Contributor's original creation(s) and/or
        Contributor has sufficient rights to grant the rights conveyed by
        this License.

    3.5. Required Notices.
    You must duplicate the notice in Exhibit A in each file of the Source
    Code.  If it is not possible to put such notice in a particular Source
    Code file due to its structure, then You must include such notice in a
    location (such as a relevant directory) where a user would be likely
    to look for such a notice.  If You created one or more Modification(s)
    You may add your name as a Contributor to the notice described in
    Exhibit A.  You must also duplicate this License in any documentation
    for the Source Code where You describe recipients' rights or ownership
    rights relating to Covered Code.  You may choose to offer, and to
    charge a fee for, warranty, support, indemnity or liability
    obligations to one or more recipients of Covered Code. However, You
    may do so only on Your own behalf, and not on behalf of the Initial
    Developer or any Contributor. You must make it absolutely clear than
    any such warranty, support, indemnity or liability obligation is
    offered by You alone, and You hereby agree to indemnify the Initial
    Developer and every Contributor for any liability incurred by the
    Initial Developer or such Contributor as a result of warranty,
    support, indemnity or liability terms You offer.

    3.6. Distribution of Executable Versions.
    You may distribute Covered Code in Executable form only if the
    requirements of Section 3.1-3.5 have been met for that Covered Code,
    and if You include a notice stating that the Source Code version of
    the Covered Code is available under the terms of this License,
    including a description of how and where You have fulfilled the
    obligations of Section 3.2. The notice must be conspicuously included
    in any notice in an Executable version, related documentation or
    collateral in which You describe recipients' rights relating to the
    Covered Code. You may distribute the Executable version of Covered
    Code or ownership rights under a license of Your choice, which may
    contain terms different from this License, provided that You are in
    compliance with the terms of this License and that the license for the
    Executable version does not attempt to limit or alter the recipient's
    rights in the Source Code version from the rights set forth in this
    License. If You distribute the Executable version under a different
    license You must make it absolutely clear that any terms which differ
    from this License are offered by You alone, not by the Initial
    Developer or any Contributor. You hereby agree to indemnify the
    Initial Developer and every Contributor for any liability incurred by
    the Initial Developer or such Contributor as a result of any such
    terms You offer.
```

```
     3.7. Larger Works.
     You may create a Larger Work by combining Covered Code with other code
     not governed by the terms of this License and distribute the Larger
     Work as a single product. In such a case, You must make sure the
     requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

     If it is impossible for You to comply with any of the terms of this
     License with respect to some or all of the Covered Code due to
     statute, judicial order, or regulation then You must: (a) comply with
     the terms of this License to the maximum extent possible; and (b)
     describe the limitations and the code they affect. Such description
     must be included in the LEGAL file described in Section 3.4 and must
     be included with all distributions of the Source Code. Except to the
     extent prohibited by statute or regulation, such description must be
     sufficiently detailed for a recipient of ordinary skill to be able to
     understand it.

5. Application of this License.

     This License applies to code to which the Initial Developer has
     attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

     6.1. New Versions.
     Netscape Communications Corporation ("Netscape") may publish revised
     and/or new versions of the License from time to time. Each version
     will be given a distinguishing version number.

     6.2. Effect of New Versions.
     Once Covered Code has been published under a particular version of the
     License, You may always continue to use it under the terms of that
     version. You may also choose to use such Covered Code under the terms
     of any subsequent version of the License published by Netscape. No one
     other than Netscape has the right to modify the terms applicable to
     Covered Code created under this License.

     6.3. Derivative Works.
     If You create or use a modified version of this License (which you may
     only do in order to apply it to code which is not already Covered Code
     governed by this License), You must (a) rename Your license so that
     the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape",
     "MPL", "NPL" or any confusingly similar phrase do not appear in your
     license (except to note that your license differs from this License)
     and (b) otherwise make it clear that Your version of the license
     contains terms which differ from the Mozilla Public License and
     Netscape Public License. (Filling in the name of the Initial
     Developer, Original Code or Contributor in the notice described in
     Exhibit A shall not of themselves be deemed to be modifications of
     this License.)

7. DISCLAIMER OF WARRANTY.

     COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
     WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
     WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF
     DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING.
     THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE
     IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT,
     YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE
     COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER
     OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF
```

```
     ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

     8.1.  This License and the rights granted hereunder will terminate
     automatically if You fail to comply with terms herein and fail to cure
     such breach within 30 days of becoming aware of the breach. All
     sublicenses to the Covered Code which are properly granted shall
     survive any termination of this License. Provisions which, by their
     nature, must remain in effect beyond the termination of this License
     shall survive.

     8.2.  If You initiate litigation by asserting a patent infringement
     claim (excluding declatory judgment actions) against Initial Developer
     or a Contributor (the Initial Developer or Contributor against whom
     You file such action is referred to as "Participant")  alleging that:

     (a)  such Participant's Contributor Version directly or indirectly
     infringes any patent, then any and all rights granted by such
     Participant to You under Sections 2.1 and/or 2.2 of this License
     shall, upon 60 days notice from Participant terminate prospectively,
     unless if within 60 days after receipt of notice You either: (i)
     agree in writing to pay Participant a mutually agreeable reasonable
     royalty for Your past and future use of Modifications made by such
     Participant, or (ii) withdraw Your litigation claim with respect to
     the Contributor Version against such Participant.  If within 60 days
     of notice, a reasonable royalty and payment arrangement are not
     mutually agreed upon in writing by the parties or the litigation claim
     is not withdrawn, the rights granted by Participant to You under
     Sections 2.1 and/or 2.2 automatically terminate at the expiration of
     the 60 day notice period specified above.

     (b)  any software, hardware, or device, other than such Participant's
     Contributor Version, directly or indirectly infringes any patent, then
     any rights granted to You by such Participant under Sections 2.1(b)
     and 2.2(b) are revoked effective as of the date You first made, used,
     sold, distributed, or had made, Modifications made by that
     Participant.

     8.3.  If You assert a patent infringement claim against Participant
     alleging that such Participant's Contributor Version directly or
     indirectly infringes any patent where such claim is resolved (such as
     by license or settlement) prior to the initiation of patent
     infringement litigation, then the reasonable value of the licenses
     granted by such Participant under Sections 2.1 or 2.2 shall be taken
     into account in determining the amount or value of any payment or
     license.

     8.4.  In the event of termination under Sections 8.1 or 8.2 above,
     all end user license agreements (excluding distributors and resellers)
     which have been validly granted by You or any distributor hereunder
     prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

     UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
     (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL
     DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE,
     OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR
     ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY
     CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL,
     WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
     COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN
     INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF
```

```
     LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY
     RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW
     PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE
     EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO
     THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

     The Covered Code is a "commercial item," as that term is defined in
     48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
     software" and "commercial computer software documentation," as such
     terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48
     C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995),
     all U.S. Government End Users acquire Covered Code with only those
     rights set forth herein.

11. MISCELLANEOUS.

     This License represents the complete agreement concerning subject
     matter hereof. If any provision of this License is held to be
     unenforceable, such provision shall be reformed only to the extent
     necessary to make it enforceable. This License shall be governed by
     California law provisions (except to the extent applicable law, if
     any, provides otherwise), excluding its conflict-of-law provisions.
     With respect to disputes in which at least one party is a citizen of,
     or an entity chartered or registered to do business in the United
     States of America, any litigation relating to this License shall be
     subject to the jurisdiction of the Federal Courts of the Northern
     District of California, with venue lying in Santa Clara County,
     California, with the losing party responsible for costs, including
     without limitation, court costs and reasonable attorneys' fees and
     expenses. The application of the United Nations Convention on
     Contracts for the International Sale of Goods is expressly excluded.
     Any law or regulation which provides that the language of a contract
     shall be construed against the drafter shall not apply to this
     License.

12. RESPONSIBILITY FOR CLAIMS.

     As between Initial Developer and the Contributors, each party is
     responsible for claims and damages arising, directly or indirectly,
     out of its utilization of rights under this License and You agree to
     work with Initial Developer and Contributors to distribute such
     responsibility on an equitable basis. Nothing herein is intended or
     shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

     Initial Developer may designate portions of the Covered Code as
     "Multiple-Licensed".  "Multiple-Licensed" means that the Initial
     Developer permits you to utilize portions of the Covered Code under
     Your choice of the NPL or the alternative licenses, if any, specified
     by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

     ``The contents of this file are subject to the Mozilla Public License
     Version 1.1 (the "License"); you may not use this file except in
     compliance with the License. You may obtain a copy of the License at
     http://www.mozilla.org/MPL/

     Software distributed under the License is distributed on an "AS IS"
     basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
     License for the specific language governing rights and limitations
```

```
     under the License.

     The Original Code is ______________________________________.

     The Initial Developer of the Original Code is _________________________.
     Portions created by ________________________ are Copyright (C) ______
     _________________________. All Rights Reserved.

     Contributor(s): ______________________________________.

     Alternatively, the contents of this file may be used under the terms
     of the _____ license (the  "[___] License"), in which case the
     provisions of [______] License are applicable instead of those
     above.  If you wish to allow use of your version of this file only
     under the terms of the [____] License and not to allow others to use
     your version of this file under the MPL, indicate your decision by
     deleting  the provisions above and replace  them with the notice and
     other provisions required by the [___] License.  If you do not delete
     the provisions above, a recipient may use your version of this file
     under either the MPL or the [___] License."

     [NOTE: The text of this Exhibit A may differ slightly from the text of
     the notices in the Source Code files of the Original Code. You should
     use the text of this Exhibit A rather than the text found in the
     Original Code Source Code for Your Modifications.]

--------------- Fourth-party license --------------------

== libreoffice ( dictionaries only included in Pyphen )
 https://git.libreoffice.org/dictionaries/

==  LibreOffice is made available subject to the terms of the Mozilla Public
 License v2.0 https://www.libreoffice.org/about-us/licenses

-------------

Mozilla Public License Version 2.0
1. Definitions

1.1. “Contributor”

    means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”

    means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.
1.3. “Contribution”

    means Covered Software of a particular Contributor.
1.4. “Covered Software”

    means Source Code Form to which the initial Contributor has attached
 the notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. “Incompatible With Secondary Licenses”

    means

        that the initial Contributor has attached the notice described in
 Exhibit B to the Covered Software; or
```

```
        that the Covered Software was made available under the terms of
 version 1.1 or earlier of the License, but not also under the terms of a
 Secondary License.

1.6. “Executable Form”

    means any form of the work other than Source Code Form.
1.7. “Larger Work”

    means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. “License”

    means this document.
1.9. “Licensable”

    means having the right to grant, to the maximum extent possible, whether
 at the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. “Modifications”

    means any of the following:

        any file in Source Code Form that results from an addition to,
 deletion from, or modification of the contents of Covered Software; or

        any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

    means any patent claim(s), including without limitation, method,
 process, and apparatus claims, in any patent Licensable by such Contributor
 that would be infringed, but for the grant of the License, by the making,
 using, selling, offering for sale, having made, import, or transfer of
 either its Contributions or its Contributor Version.
1.12. “Secondary License”

    means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form”

    means the form of the work preferred for making modifications.
1.14. “You” (or “Your”)

    means an individual or a legal entity exercising rights under this
 License. For legal entities, “You” includes any entity that controls, is
 controlled by, or is under common control with You. For purposes of this
 definition, “control” means (a) the power, direct or indirect, to cause the
 direction or management of such entity, whether by contract or otherwise,
 or (b) ownership of more than fifty percent (50%) of the outstanding shares
 or beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

    under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
```

```
    under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

    for any code that a Contributor has removed from Covered Software; or

    for infringements caused by: (i) Your and any other third party's
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

    under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation

Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use

This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:
```

```
    such Covered Software must also be made available in Source Code
 Form, as described in Section 3.1, and You must inform recipients of the
 Executable Form how they can obtain a copy of such Source Code Form by
 reasonable means in a timely manner, at a charge no more than the cost of
 distribution to the recipient; and

    You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices

You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination

5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
```

```
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty

Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation

Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous

This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
```

```
10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions

If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses

If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice

    This Source Code Form is subject to the terms of the Mozilla Public
 License, v. 2.0. If a copy of the MPL was not distributed with this file,
 You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.
Exhibit B - "Incompatible With Secondary Licenses" Notice

    This Source Code Form is "Incompatible With Secondary Licenses", as
 defined by the Mozilla Public License, v. 2.0.
```

Provider: Contributors / Component(s): textstat 0.7.4

```
------------------------------ Top-level license -------------------------
=== ==========================================================================

textstat

MIT License
-------------

Copyright (c) 2016 Shivam Bansal (shivam5992@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

=== ==========================================================================
---------------------------- Fourth-party information ----------------------
=== ==========================================================================

--------------- Fourth-party license --------------------

== Pyphen

== GPL 2.0+/LGPL 2.1+/MPL 1.1 tri-license.

Oracle elects the MPL 1.1.
-------------

Pyphen is released under the GPL 2.0+/LGPL 2.1+/MPL 1.1 tri-license.
See COPYING.GPL, COPYING.LGPL and COPYING.MPL for more details.

Many dictionaries are included in pyphen, they come from the LibreOffice git
repository and are distributed under GPL, LGPL and/or MPL. See the
dictionaries and the libreoffice's repository for more details.

http://cgit.freedesktop.org/libreoffice/dictionaries/tree/

Pyphen is a pure Python module to hyphenate text using existing Hunspell
 hyphenation dictionaries.

This module is a fork of python-hyphenator, written by Wilbert Berendsen.

Many dictionaries are included in pyphen, they come from the LibreOffice git
 repository and are distributed under GPL, LGPL and/or MPL. Dictionaries
 are not modified in this repository. See the dictionaries and LibreOffice's
 repository for more details.

https://cgit.freedesktop.org/libreoffice/dictionaries/tree/

    Free software: GPL 2.0+/LGPL 2.1+/MPL 1.1 tri-license
    For Python 3.7+, tested on CPython and PyPy
    Documentation: https://doc.courtbouillon.org/pyphen
    Changelog: https://github.com/Kozea/pyphen/releases
    Code, issues, tests: https://github.com/Kozea/pyphen
    Code of conduct: https://www.courtbouillon.org/code-of-conduct
    Professional support: https://www.courtbouillon.org
    Donation: https://opencollective.com/courtbouillon

Pyphen has been created and developed by Kozea (https://kozea.fr).
 Professional support, maintenance and community management is provided by
 CourtBouillon (https://www.courtbouillon.org).

Copyrights are retained by their contributors, no copyright assignment
 is required to contribute to Pyphen. Unless explicitly stated otherwise,
 any contribution intentionally submitted for inclusion is licensed under
 GPL 2.0+/LGPL 2.1+/MPL 1.1, without any additional terms or conditions. For full
 authorship information, see the version control history.

--------------- Fourth-party license --------------------

       GNU GENERAL PUBLIC LICENSE
          Version 2, June 1991
```

```
 Copyright (C) 1989, 1991 Free Software Foundation, Inc.
     59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

      GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
```

```
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
```

```
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange;
or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
```

```
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free
Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.
```

```
       NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

       END OF TERMS AND CONDITIONS

     How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    one line to give the program's name and a brief idea of what it does.
    Copyright (C) year  name of author

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
USA


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year  name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
w'.
    This is free software, and you are welcome to redistribute it
```

```
    under certain conditions; type `show c' for details.

 The hypothetical commands `show w' and `show c' should show the appropriate
 parts of the General Public License.  Of course, the commands you use may
 be called something other than `show w' and `show c'; they could even be
 mouse-clicks or menu items--whatever suits your program.

 You should also get your employer (if you work as a programmer) or your
 school, if any, to sign a "copyright disclaimer" for the program, if
 necessary.  Here is a sample; alter the names:

   Yoyodyne, Inc., hereby disclaims all copyright interest in the program
   `Gnomovision' (which makes passes at compilers) written by James Hacker.

   signature of Ty Coon, 1 April 1989
   Ty Coon, President of Vice

 This General Public License does not permit incorporating your program into
 proprietary programs.  If your program is a subroutine library, you may
 consider it more useful to permit linking proprietary applications with the
 library.  If this is what you want to do, use the GNU Library General
 Public License instead of this License.

--------------- Fourth-party license --------------------

                  GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                             Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
```

```
  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.
^L
  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it
becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
```

```
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.
^L
                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control
compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
```

```
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.
^L
  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
```

```
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
```

```
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
^L
  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
```

```
  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.
^L
  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply, and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License
may add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
```

```
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.
^L
  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                     END OF TERMS AND CONDITIONS
^L
           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

  To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.


    <one line to give the library's name and a brief idea of what it
does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2 of the License, or (at your option) any later version.
```

```
    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307  USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!

--------------- Fourth-party license --------------------

                          MOZILLA PUBLIC LICENSE
                                Version 1.1

                              ---------------

1. Definitions.

     1.0.1. "Commercial Use" means distribution or otherwise making the
     Covered Code available to a third party.

     1.1. "Contributor" means each entity that creates or contributes to
     the creation of Modifications.

     1.2. "Contributor Version" means the combination of the Original
     Code, prior Modifications used by a Contributor, and the Modifications
     made by that particular Contributor.

     1.3. "Covered Code" means the Original Code or Modifications or the
     combination of the Original Code and Modifications, in each case
     including portions thereof.

     1.4. "Electronic Distribution Mechanism" means a mechanism generally
     accepted in the software development community for the electronic
     transfer of data.

     1.5. "Executable" means Covered Code in any form other than Source
     Code.

     1.6. "Initial Developer" means the individual or entity identified
     as the Initial Developer in the Source Code notice required by Exhibit
     A.

     1.7. "Larger Work" means a work which combines Covered Code or
     portions thereof with code not governed by the terms of this License.

     1.8. "License" means this document.
```

```
     1.8.1. "Licensable" means having the right to grant, to the maximum
     extent possible, whether at the time of the initial grant or
     subsequently acquired, any and all of the rights conveyed herein.

     1.9. "Modifications" means any addition to or deletion from the
     substance or structure of either the Original Code or any previous
     Modifications. When Covered Code is released as a series of files, a
     Modification is:
          A. Any addition to or deletion from the contents of a file
          containing Original Code or previous Modifications.

          B. Any new file that contains any part of the Original Code or
          previous Modifications.

     1.10. "Original Code" means Source Code of computer software code
     which is described in the Source Code notice required by Exhibit A as
     Original Code, and which, at the time of its release under this
     License is not already Covered Code governed by this License.

     1.10.1. "Patent Claims" means any patent claim(s), now owned or
     hereafter acquired, including without limitation,  method, process,
     and apparatus claims, in any patent Licensable by grantor.

     1.11. "Source Code" means the preferred form of the Covered Code for
     making modifications to it, including all modules it contains, plus
     any associated interface definition files, scripts used to control
     compilation and installation of an Executable, or source code
     differential comparisons against either the Original Code or another
     well known, available Covered Code of the Contributor's choice. The
     Source Code can be in a compressed or archival form, provided the
     appropriate decompression or de-archiving software is widely available
     for no charge.

     1.12. "You" (or "Your")  means an individual or a legal entity
     exercising rights under, and complying with all of the terms of, this
     License or a future version of this License issued under Section 6.1.
     For legal entities, "You" includes any entity which controls, is
     controlled by, or is under common control with You. For purposes of
     this definition, "control" means (a) the power, direct or indirect,
     to cause the direction or management of such entity, whether by
     contract or otherwise, or (b) ownership of more than fifty percent
     (50%) of the outstanding shares or beneficial ownership of such
     entity.

2. Source Code License.

     2.1. The Initial Developer Grant.
     The Initial Developer hereby grants You a world-wide, royalty-free,
     non-exclusive license, subject to third party intellectual property
     claims:
          (a)  under intellectual property rights (other than patent or
          trademark) Licensable by Initial Developer to use, reproduce,
          modify, display, perform, sublicense and distribute the Original
          Code (or portions thereof) with or without Modifications, and/or
          as part of a Larger Work; and

          (b) under Patents Claims infringed by the making, using or
          selling of Original Code, to make, have made, use, practice,
          sell, and offer for sale, and/or otherwise dispose of the
          Original Code (or portions thereof).

          (c) the licenses granted in this Section 2.1(a) and (b) are
          effective on the date Initial Developer first distributes
```

```
          Original Code under the terms of this License.

          (d) Notwithstanding Section 2.1(b) above, no patent license is
          granted: 1) for code that You delete from the Original Code; 2)
          separate from the Original Code;  or 3) for infringements caused
          by: i) the modification of the Original Code or ii) the
          combination of the Original Code with other software or devices.

     2.2. Contributor Grant.
     Subject to third party intellectual property claims, each Contributor
     hereby grants You a world-wide, royalty-free, non-exclusive license

          (a)  under intellectual property rights (other than patent or
          trademark) Licensable by Contributor, to use, reproduce, modify,
          display, perform, sublicense and distribute the Modifications
          created by such Contributor (or portions thereof) either on an
          unmodified basis, with other Modifications, as Covered Code
          and/or as part of a Larger Work; and

          (b) under Patent Claims infringed by the making, using, or
          selling of  Modifications made by that Contributor either alone
          and/or in combination with its Contributor Version (or portions
          of such combination), to make, use, sell, offer for sale, have
          made, and/or otherwise dispose of: 1) Modifications made by that
          Contributor (or portions thereof); and 2) the combination of
          Modifications made by that Contributor with its Contributor
          Version (or portions of such combination).

          (c) the licenses granted in Sections 2.2(a) and 2.2(b) are
          effective on the date Contributor first makes Commercial Use of
          the Covered Code.

          (d)    Notwithstanding Section 2.2(b) above, no patent license is
          granted: 1) for any code that Contributor has deleted from the
          Contributor Version; 2)  separate from the Contributor Version;
          3)  for infringements caused by: i) third party modifications of
          Contributor Version or ii)  the combination of Modifications made
          by that Contributor with other software  (except as part of the
          Contributor Version) or other devices; or 4) under Patent Claims
          infringed by Covered Code in the absence of Modifications made by
          that Contributor.

3. Distribution Obligations.

     3.1. Application of License.
     The Modifications which You create or to which You contribute are
     governed by the terms of this License, including without limitation
     Section 2.2. The Source Code version of Covered Code may be
     distributed only under the terms of this License or a future version
     of this License released under Section 6.1, and You must include a
     copy of this License with every copy of the Source Code You
     distribute. You may not offer or impose any terms on any Source Code
     version that alters or restricts the applicable version of this
     License or the recipients' rights hereunder. However, You may include
     an additional document offering the additional rights described in
     Section 3.5.

     3.2. Availability of Source Code.
     Any Modification which You create or to which You contribute must be
     made available in Source Code form under the terms of this License
     either on the same media as an Executable version or via an accepted
     Electronic Distribution Mechanism to anyone to whom you made an
     Executable version available; and if made available via Electronic
     Distribution Mechanism, must remain available for at least twelve (12)
```

```
months after the date it initially became available, or at least six
(6) months after a subsequent version of that particular Modification
has been made available to such recipients. You are responsible for
ensuring that the Source Code version remains available even if the
Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a
file documenting the changes You made to create that Covered Code and
the date of any change. You must include a prominent statement that
the Modification is derived, directly or indirectly, from Original
Code provided by the Initial Developer and including the name of the
Initial Developer in (a) the Source Code, and (b) in any notice in an
Executable version or related documentation in which You describe the
origin or ownership of the Covered Code.

3.4. Intellectual Property Matters
     (a) Third Party Claims.
     If Contributor has knowledge that a license under a third party's
     intellectual property rights is required to exercise the rights
     granted by such Contributor under Sections 2.1 or 2.2,
     Contributor must include a text file with the Source Code
     distribution titled "LEGAL" which describes the claim and the
     party making the claim in sufficient detail that a recipient will
     know whom to contact. If Contributor obtains such knowledge after
     the Modification is made available as described in Section 3.2,
     Contributor shall promptly modify the LEGAL file in all copies
     Contributor makes available thereafter and shall take other steps
     (such as notifying appropriate mailing lists or newsgroups)
     reasonably calculated to inform those who received the Covered
     Code that new knowledge has been obtained.

     (b) Contributor APIs.
     If Contributor's Modifications include an application programming
     interface and Contributor has knowledge of patent licenses which
     are reasonably necessary to implement that API, Contributor must
     also include this information in the LEGAL file.

          (c)    Representations.
     Contributor represents that, except as disclosed pursuant to
     Section 3.4(a) above, Contributor believes that Contributor's
     Modifications are Contributor's original creation(s) and/or
     Contributor has sufficient rights to grant the rights conveyed by
     this License.

3.5. Required Notices.
You must duplicate the notice in Exhibit A in each file of the Source
Code.  If it is not possible to put such notice in a particular Source
Code file due to its structure, then You must include such notice in a
location (such as a relevant directory) where a user would be likely
to look for such a notice.  If You created one or more Modification(s)
You may add your name as a Contributor to the notice described in
Exhibit A.  You must also duplicate this License in any documentation
for the Source Code where You describe recipients' rights or ownership
rights relating to Covered Code.  You may choose to offer, and to
charge a fee for, warranty, support, indemnity or liability
obligations to one or more recipients of Covered Code. However, You
may do so only on Your own behalf, and not on behalf of the Initial
Developer or any Contributor. You must make it absolutely clear than
any such warranty, support, indemnity or liability obligation is
offered by You alone, and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred by the
Initial Developer or such Contributor as a result of warranty,
support, indemnity or liability terms You offer.
```

```
     3.6. Distribution of Executable Versions.
     You may distribute Covered Code in Executable form only if the
     requirements of Section 3.1-3.5 have been met for that Covered Code,
     and if You include a notice stating that the Source Code version of
     the Covered Code is available under the terms of this License,
     including a description of how and where You have fulfilled the
     obligations of Section 3.2. The notice must be conspicuously included
     in any notice in an Executable version, related documentation or
     collateral in which You describe recipients' rights relating to the
     Covered Code. You may distribute the Executable version of Covered
     Code or ownership rights under a license of Your choice, which may
     contain terms different from this License, provided that You are in
     compliance with the terms of this License and that the license for the
     Executable version does not attempt to limit or alter the recipient's
     rights in the Source Code version from the rights set forth in this
     License. If You distribute the Executable version under a different
     license You must make it absolutely clear that any terms which differ
     from this License are offered by You alone, not by the Initial
     Developer or any Contributor. You hereby agree to indemnify the
     Initial Developer and every Contributor for any liability incurred by
     the Initial Developer or such Contributor as a result of any such
     terms You offer.

     3.7. Larger Works.
     You may create a Larger Work by combining Covered Code with other code
     not governed by the terms of this License and distribute the Larger
     Work as a single product. In such a case, You must make sure the
     requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

     If it is impossible for You to comply with any of the terms of this
     License with respect to some or all of the Covered Code due to
     statute, judicial order, or regulation then You must: (a) comply with
     the terms of this License to the maximum extent possible; and (b)
     describe the limitations and the code they affect. Such description
     must be included in the LEGAL file described in Section 3.4 and must
     be included with all distributions of the Source Code. Except to the
     extent prohibited by statute or regulation, such description must be
     sufficiently detailed for a recipient of ordinary skill to be able to
     understand it.

5. Application of this License.

     This License applies to code to which the Initial Developer has
     attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

     6.1. New Versions.
     Netscape Communications Corporation ("Netscape") may publish revised
     and/or new versions of the License from time to time. Each version
     will be given a distinguishing version number.

     6.2. Effect of New Versions.
     Once Covered Code has been published under a particular version of the
     License, You may always continue to use it under the terms of that
     version. You may also choose to use such Covered Code under the terms
     of any subsequent version of the License published by Netscape. No one
     other than Netscape has the right to modify the terms applicable to
     Covered Code created under this License.

     6.3. Derivative Works.
```

```
     If You create or use a modified version of this License (which you may
     only do in order to apply it to code which is not already Covered Code
     governed by this License), You must (a) rename Your license so that
     the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape",
     "MPL", "NPL" or any confusingly similar phrase do not appear in your
     license (except to note that your license differs from this License)
     and (b) otherwise make it clear that Your version of the license
     contains terms which differ from the Mozilla Public License and
     Netscape Public License. (Filling in the name of the Initial
     Developer, Original Code or Contributor in the notice described in
     Exhibit A shall not of themselves be deemed to be modifications of
     this License.)

7. DISCLAIMER OF WARRANTY.

     COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
     WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
     WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF
     DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING.
     THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE
     IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT,
     YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE
     COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER
     OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF
     ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

     8.1.  This License and the rights granted hereunder will terminate
     automatically if You fail to comply with terms herein and fail to cure
     such breach within 30 days of becoming aware of the breach. All
     sublicenses to the Covered Code which are properly granted shall
     survive any termination of this License. Provisions which, by their
     nature, must remain in effect beyond the termination of this License
     shall survive.

     8.2.  If You initiate litigation by asserting a patent infringement
     claim (excluding declatory judgment actions) against Initial Developer
     or a Contributor (the Initial Developer or Contributor against whom
     You file such action is referred to as "Participant")  alleging that:

     (a)  such Participant's Contributor Version directly or indirectly
     infringes any patent, then any and all rights granted by such
     Participant to You under Sections 2.1 and/or 2.2 of this License
     shall, upon 60 days notice from Participant terminate prospectively,
     unless if within 60 days after receipt of notice You either: (i)
     agree in writing to pay Participant a mutually agreeable reasonable
     royalty for Your past and future use of Modifications made by such
     Participant, or (ii) withdraw Your litigation claim with respect to
     the Contributor Version against such Participant.  If within 60 days
     of notice, a reasonable royalty and payment arrangement are not
     mutually agreed upon in writing by the parties or the litigation claim
     is not withdrawn, the rights granted by Participant to You under
     Sections 2.1 and/or 2.2 automatically terminate at the expiration of
     the 60 day notice period specified above.

     (b)  any software, hardware, or device, other than such Participant's
     Contributor Version, directly or indirectly infringes any patent, then
     any rights granted to You by such Participant under Sections 2.1(b)
     and 2.2(b) are revoked effective as of the date You first made, used,
     sold, distributed, or had made, Modifications made by that
     Participant.

     8.3.  If You assert a patent infringement claim against Participant
```

alleging that such Participant's Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is

```
     responsible for claims and damages arising, directly or indirectly,
     out of its utilization of rights under this License and You agree to
     work with Initial Developer and Contributors to distribute such
     responsibility on an equitable basis. Nothing herein is intended or
     shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

     Initial Developer may designate portions of the Covered Code as
     "Multiple-Licensed".  "Multiple-Licensed" means that the Initial
     Developer permits you to utilize portions of the Covered Code under
     Your choice of the NPL or the alternative licenses, if any, specified
     by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

     ``The contents of this file are subject to the Mozilla Public License
     Version 1.1 (the "License"); you may not use this file except in
     compliance with the License. You may obtain a copy of the License at
     http://www.mozilla.org/MPL/

     Software distributed under the License is distributed on an "AS IS"
     basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
     License for the specific language governing rights and limitations
     under the License.

     The Original Code is ________________________________________.

     The Initial Developer of the Original Code is _________________________.
     Portions created by _______________________ are Copyright (C) ______
     _________________________. All Rights Reserved.

     Contributor(s): ________________________________________.

     Alternatively, the contents of this file may be used under the terms
     of the _____ license (the  "[___] License"), in which case the
     provisions of [______] License are applicable instead of those
     above.  If you wish to allow use of your version of this file only
     under the terms of the [____] License and not to allow others to use
     your version of this file under the MPL, indicate your decision by
     deleting  the provisions above and replace  them with the notice and
     other provisions required by the [___] License.  If you do not delete
     the provisions above, a recipient may use your version of this file
     under either the MPL or the [___] License."

     [NOTE: The text of this Exhibit A may differ slightly from the text of
     the notices in the Source Code files of the Original Code. You should
     use the text of this Exhibit A rather than the text found in the
     Original Code Source Code for Your Modifications.]

--------------- Fourth-party license --------------------

== libreoffice ( dictionaries only included in Pyphen )
 https://git.libreoffice.org/dictionaries/

==  LibreOffice is made available subject to the terms of the Mozilla Public
 License v2.0 https://www.libreoffice.org/about-us/licenses

-------------

Mozilla Public License Version 2.0
1. Definitions

1.1. “Contributor”
```

```
    means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”

    means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.
1.3. “Contribution”

    means Covered Software of a particular Contributor.
1.4. “Covered Software”

    means Source Code Form to which the initial Contributor has attached
 the notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. “Incompatible With Secondary Licenses”

    means

        that the initial Contributor has attached the notice described in
 Exhibit B to the Covered Software; or

        that the Covered Software was made available under the terms of
 version 1.1 or earlier of the License, but not also under the terms of a
 Secondary License.

1.6. “Executable Form”

    means any form of the work other than Source Code Form.
1.7. “Larger Work”

    means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. “License”

    means this document.
1.9. “Licensable”

    means having the right to grant, to the maximum extent possible, whether
 at the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. “Modifications”

    means any of the following:

        any file in Source Code Form that results from an addition to,
 deletion from, or modification of the contents of Covered Software; or

        any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

    means any patent claim(s), including without limitation, method,
 process, and apparatus claims, in any patent Licensable by such Contributor
 that would be infringed, but for the grant of the License, by the making,
 using, selling, offering for sale, having made, import, or transfer of
 either its Contributions or its Contributor Version.
1.12. “Secondary License”

    means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form”
```

```
    means the form of the work preferred for making modifications.
1.14. “You” (or “Your”)

    means an individual or a legal entity exercising rights under this
 License. For legal entities, “You” includes any entity that controls, is
 controlled by, or is under common control with You. For purposes of this
 definition, “control” means (a) the power, direct or indirect, to cause the
 direction or management of such entity, whether by contract or otherwise,
 or (b) ownership of more than fifty percent (50%) of the outstanding shares
 or beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

    under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

    under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

    for any code that a Contributor has removed from Covered Software; or

    for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

    under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
```

```
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use

This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

    such Covered Software must also be made available in Source Code
 Form, as described in Section 3.1, and You must inform recipients of the
 Executable Form how they can obtain a copy of such Source Code Form by
 reasonable means in a timely manner, at a charge no more than the cost of
 distribution to the recipient; and

    You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices

You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
```

```
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination

5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty

Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
```

```
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation

Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous

This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions

If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses

If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice

    This Source Code Form is subject to the terms of the Mozilla Public
 License, v. 2.0. If a copy of the MPL was not distributed with this file,
 You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice

    This Source Code Form is “Incompatible With Secondary Licenses”, as
 defined by the Mozilla Public License, v. 2.0.
```

Provider: Copyright JS Foundation and other contributors / Component(s): moment-timezone 0.5.45

```
------------------------------- Top-level license -------------------------
moment-timezone
License text:

The MIT License (MIT)

Copyright (c) JS Foundation and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------- Fourth-party information ----------------------
moment
License text:

Copyright (c) JS Foundation and other contributors

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

```
--------------------------------(separator)----------------------------------
```

Provider: CoreOS, Inc. / Component(s): etcd 3.2.2

```
                    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
```

```
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: CoreOS, Inc. / Component(s): Flannel 0.7.1

```
 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: CoreOS, Inc. / Component(s): Flannel 0.8.0

```
 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: CoreOS, Inc. / Component(s): Flannel 0.9.1

```
 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.
```

Provider: D. R. Commander, Pierre Ossman, MIYASAKA Masaru / Component(s): libjpeg-turbo 2.0.7 ESR

```
BSD (from LICENSE.md)
==============
Copyright (C)2009-2019 D. R. Commander.  All Rights Reserved.
Copyright (C)2015 Viktor Szathmáry.  All Rights Reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its
  contributors may be used to endorse or promote products derived from this
  software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

---

IJG (from README.ijg)
==============
The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose.  This software is provided "AS IS", and
 you,
its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2016, Thomas G. Lane, Guido Vollbeding.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this
software (or portions thereof) for any purpose, without fee, subject to
 these
conditions:
(1) If any part of the source code for this software is distributed, then
 this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.
```

```
These conditions apply to any software derived from or based on the IJG
 code,
not just to the unmodified library.  If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company
 name
in advertising or publicity relating to this software or products derived
 from
it.  This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage the use of this software as the basis
 of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.


The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent (now expired), GIF reading
support has been removed altogether, and the GIF writer has been simplified
to produce "uncompressed GIFs".  This technique does not use the LZW
algorithm; the resulting GIF files are larger than usual, but are readable
by all standard GIF decoders.

We are required to state that
    "The Graphics Interchange Format(c) is the Copyright property of
    CompuServe Incorporated.  GIF(sm) is a Service Mark property of
    CompuServe Incorporated."

----

Zlib
Overview:  Zlib itself is licensed under the permissive zlib license as
 shown below.  However, please note that the zlib distribution also includes
 separate files under a “contrib” directory that are not part of zlib and
 were contributed by other authors under other license terms, including
 the disfavored GPL.  Please refer to the zlib README and FAQ for more
 information.

/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.7, May 2nd, 2012

  Copyright (C) 1995-2012 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu
```

```
  The data format used by the zlib library is described by RFCs (Request for
  Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
  (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

----
From simd/nasm/jsimdext.inc

Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2010, 2016, 2019, D. R. Commander.
Copyright (C) 2018, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library - version 1.02

Copyright (C) 1999-2006, MIYASAKA Masaru.

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

----

COPYRIGHTS
========
Files(2):
libjpeg-turbo-2.0.4/jconfig.txt
libjpeg-turbo-2.0.4/jinclude.h
Copyright (C) 1991-1994, Thomas G. Lane.
It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdmaster.h
Copyright (C) 1991-1995, Thomas G. Lane.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(3):
libjpeg-turbo-2.0.4/jdsample.h
libjpeg-turbo-2.0.4/simd/loongson/jcsample.h
libjpeg-turbo-2.0.4/simd/powerpc/jcsample.h
Copyright (C) 1991-1996, Thomas G. Lane.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jutils.c
Copyright (C) 1991-1996, Thomas G. Lane.
```

```
It was modified by The libjpeg-turbo Project to include only code
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/rdrle.c
Copyright (C) 1991-1996, Thomas G. Lane.
It was modified by The libjpeg-turbo Project to include only code and
information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/wrppm.c
Copyright (C) 1991-1996, Thomas G. Lane.
Modified 2009 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2017, 2019, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/rdtarga.c
Copyright (C) 1991-1996, Thomas G. Lane.
Modified 2017 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jquant2.c
Copyright (C) 1991-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2009, 2014-2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jquant1.c
Copyright (C) 1991-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2009, 2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jccolext.c
Copyright (C) 1991-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2009-2012, 2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/rdswitch.c
Copyright (C) 1991-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2010, 2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
```

```
libjpeg-turbo-2.0.4/jfdctint.c
Copyright (C) 1991-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(2):
libjpeg-turbo-2.0.4/wrrle.c
libjpeg-turbo-2.0.4/wrtarga.c
Copyright (C) 1991-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2017, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jccolor.c
Copyright (C) 1991-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009-2012, 2015, D. R. Commander.
Copyright (C) 2014, MIPS Technologies, Inc., California.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdsample.c
Copyright (C) 1991-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2010, 2015-2016, D. R. Commander.
Copyright (C) 2014, MIPS Technologies, Inc., California.
Copyright (C) 2015, Google, Inc.
Copyright (C) 2019, Arm Limited.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jcsample.c
Copyright (C) 1991-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2014, MIPS Technologies, Inc., California.
Copyright (C) 2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(2):
libjpeg-turbo-2.0.4/cdjpeg.c
libjpeg-turbo-2.0.4/jchuff.h
Copyright (C) 1991-1997, Thomas G. Lane.
It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdcol565.c
Copyright (C) 1991-1997, Thomas G. Lane.
Modifications:
Copyright (C) 2013, Linaro Limited.
Copyright (C) 2014-2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
```

```
file.

Files(1):
libjpeg-turbo-2.0.4/jmorecfg.h
Copyright (C) 1991-1997, Thomas G. Lane.
Modified 1997-2009 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2009, 2011, 2014-2015, 2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jpegint.h
Copyright (C) 1991-1997, Thomas G. Lane.
Modified 1997-2009 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2015-2016, D. R. Commander.
Copyright (C) 2015, Google, Inc.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdmaster.c
Copyright (C) 1991-1997, Thomas G. Lane.
Modified 2002-2009 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2009-2011, 2016, D. R. Commander.
Copyright (C) 2013, Linaro Limited.
Copyright (C) 2015, Google, Inc.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jcmaster.c
Copyright (C) 1991-1997, Thomas G. Lane.
Modified 2003-2010 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2010, 2016, 2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/rdppm.c
Copyright (C) 1991-1997, Thomas G. Lane.
Modified 2009 by Bill Allombert, Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2015-2017, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdcolor.c
Copyright (C) 1991-1997, Thomas G. Lane.
Modified 2011 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009, 2011-2012, 2014-2015, D. R. Commander.
Copyright (C) 2013, Linaro Limited.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/djpeg.c
Copyright (C) 1991-1997, Thomas G. Lane.
```

```
Modified 2013 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2010-2011, 2013-2017, D. R. Commander.
Copyright (C) 2015, Google, Inc.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(2):
libjpeg-turbo-2.0.4/jcinit.c
libjpeg-turbo-2.0.4/rdgif.c
Copyright (C) 1991-1997, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdcolext.c
Copyright (C) 1991-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2009, 2011, 2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jchuff.c
Copyright (C) 1991-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2009-2011, 2014-2016, 2018-2019, D. R. Commander.
Copyright (C) 2015, Matthieu Darbois.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdhuff.c
Copyright (C) 1991-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2009-2011, 2016, 2018-2019, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdinput.c
Copyright (C) 1991-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2010, 2016, 2018, D. R. Commander.
Copyright (C) 2015, Google, Inc.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdhuff.h
Copyright (C) 1991-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2010-2011, 2015-2016, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/wrgif.c
Copyright (C) 1991-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2015, 2017, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.
```

```
Files(1):
libjpeg-turbo-2.0.4/jmemmgr.c
Copyright (C) 1991-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2016, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jerror.c
Copyright (C) 1991-1998, Thomas G. Lane.
It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jidctint.c
Copyright (C) 1991-1998, Thomas G. Lane.
Modification developed 2002-2009 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jpeglib.h
Copyright (C) 1991-1998, Thomas G. Lane.
Modified 2002-2009 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2009-2011, 2013-2014, 2016-2017, D. R. Commander.
Copyright (C) 2015, Google, Inc.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jcparam.c
Copyright (C) 1991-1998, Thomas G. Lane.
Modified 2003-2008 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2009-2011, 2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jcmarker.c
Copyright (C) 1991-1998, Thomas G. Lane.
Modified 2003-2010 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/cjpeg.c
Copyright (C) 1991-1998, Thomas G. Lane.
Modified 2003-2011 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2010, 2013-2014, 2017, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
```

```
libjpeg-turbo-2.0.4/jdmarker.c
Copyright (C) 1991-1998, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2012, 2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jstdhuff.c
Copyright (C) 1991-1998, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2013, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jversion.h
Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2010, 2012-2019, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jmemnobs.c
Copyright (C) 1992-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2017-2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jmemsys.h
Copyright (C) 1992-1997, Thomas G. Lane.
It was modified by The libjpeg-turbo Project to include only code and
information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdmainct.h
Copyright (C) 1994-1996, Thomas G. Lane.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(3):
libjpeg-turbo-2.0.4/jcmainct.c
libjpeg-turbo-2.0.4/jcprepct.c
libjpeg-turbo-2.0.4/jdpostct.c
Copyright (C) 1994-1996, Thomas G. Lane.
It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jddctmgr.c
Copyright (C) 1994-1996, Thomas G. Lane.
Modified 2002-2010 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2010, 2015, D. R. Commander.
Copyright (C) 2013, MIPS Technologies, Inc., California.
For conditions of distribution and use, see the accompanying README.ijg
```

```
file.

Files(1):
libjpeg-turbo-2.0.4/jdatasrc-tj.c
Copyright (C) 1994-1996, Thomas G. Lane.
Modified 2009-2011 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2011, 2016, 2019, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdatasrc.c
Copyright (C) 1994-1996, Thomas G. Lane.
Modified 2009-2011 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2013, 2016, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdatadst-tj.c
Copyright (C) 1994-1996, Thomas G. Lane.
Modified 2009-2012 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2011, 2014, 2016, 2019, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdatadst.c
Copyright (C) 1994-1996, Thomas G. Lane.
Modified 2009-2012 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2013, 2016, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/rdbmp.c
Copyright (C) 1994-1996, Thomas G. Lane.
Modified 2009-2017 by Guido Vollbeding.
libjpeg-turbo Modifications:
Modified 2011 by Siarhei Siamashka.
Copyright (C) 2015, 2017-2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(3):
libjpeg-turbo-2.0.4/jcapistd.c
libjpeg-turbo-2.0.4/jfdctflt.c
libjpeg-turbo-2.0.4/rdcolmap.c
Copyright (C) 1994-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jcdctmgr.c
Copyright (C) 1994-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 1999-2006, MIYASAKA Masaru.
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2011, 2014-2015, D. R. Commander.
```

```
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdapistd.c
Copyright (C) 1994-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2010, 2015-2018, D. R. Commander.
Copyright (C) 2015, Google, Inc.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdmainct.c
Copyright (C) 1994-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2010, 2016, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdmrgext.c
Copyright (C) 1994-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2011, 2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/wrbmp.c
Copyright (C) 1994-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2013, Linaro Limited.
Copyright (C) 2014-2015, 2017, 2019, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdmrg565.c
Copyright (C) 1994-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2013, Linaro Limited.
Copyright (C) 2014-2015, 2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(2):
libjpeg-turbo-2.0.4/jdct.h
libjpeg-turbo-2.0.4/jfdctfst.c
Copyright (C) 1994-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdmerge.c
Copyright (C) 1994-1996, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009, 2011, 2014-2015, D. R. Commander.
Copyright (C) 2013, Linaro Limited.
For conditions of distribution and use, see the accompanying README.ijg
file.
```

```
Files(1):
libjpeg-turbo-2.0.4/jccoefct.c
Copyright (C) 1994-1997, Thomas G. Lane.
It was modified by The libjpeg-turbo Project to include only code and
information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jcomapi.c
Copyright (C) 1994-1997, Thomas G. Lane.
It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jerror.h
Copyright (C) 1994-1997, Thomas G. Lane.
Modified 1997-2009 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2014, 2017, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/rdjpgcom.c
Copyright (C) 1994-1997, Thomas G. Lane.
Modified 2009 by Bill Allombert, Guido Vollbeding.
It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/cderror.h
Copyright (C) 1994-1997, Thomas G. Lane.
Modified 2009-2017 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/wrjpgcom.c
Copyright (C) 1994-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2014, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/cdjpeg.h
Copyright (C) 1994-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2017, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdcoefct.c
Copyright (C) 1994-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
```

```
Copyright (C) 2010, 2015-2016, D. R. Commander.
Copyright (C) 2015, Google, Inc.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdcoefct.h
Copyright (C) 1994-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jcapimin.c
Copyright (C) 1994-1998, Thomas G. Lane.
Modified 2003-2010 by Guido Vollbeding.
It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jidctflt.c
Copyright (C) 1994-1998, Thomas G. Lane.
Modified 2010 by Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2014, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(2):
libjpeg-turbo-2.0.4/jidctfst.c
libjpeg-turbo-2.0.4/jidctred.c
Copyright (C) 1994-1998, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2015, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdapimin.c
Copyright (C) 1994-1998, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2016, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/libjpeg.txt
Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2010, 2014-2018, D. R. Commander.
Copyright (C) 2015, Google, Inc.
For conditions of distribution and use, see the accompanying README.ijg
 file.

Files(1):
libjpeg-turbo-2.0.4/jdtrans.c
Copyright (C) 1995-1997, Thomas G. Lane.
It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.
```

```
Files(1):
libjpeg-turbo-2.0.4/jcphuff.c
Copyright (C) 1995-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2011, 2015, 2018, D. R. Commander.
Copyright (C) 2016, 2018, Matthieu Darbois.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jdphuff.c
Copyright (C) 1995-1997, Thomas G. Lane.
libjpeg-turbo Modifications:
Copyright (C) 2015-2016, 2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jctrans.c
Copyright (C) 1995-1998, Thomas G. Lane.
Modified 2000-2009 by Guido Vollbeding.
It was modified by The libjpeg-turbo Project to include only code relevant
to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jpegtran.c
Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2010, 2014, 2017, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(2):
libjpeg-turbo-2.0.4/jcicc.c
libjpeg-turbo-2.0.4/jdicc.c
Copyright (C) 1997-1998, Thomas G. Lane, Todd Newman.
Copyright (C) 2017, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/transupp.c
Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2010, 2017, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/transupp.h
Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
libjpeg-turbo Modifications:
Copyright (C) 2017, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(3):
libjpeg-turbo-2.0.4/simd/i386/jccolor-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jccolext-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jccolor-sse2.asm
Copyright (C) 2009, 2016, D. R. Commander.
```

```
Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(3):
libjpeg-turbo-2.0.4/simd/i386/jccolor-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jccolext-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jccolor-avx2.asm
Copyright (C) 2009, 2016, D. R. Commander.
Copyright (C) 2015, Intel Corporation.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/x86_64/jchuff-sse2.asm
Copyright (C) 2009-2011, 2014-2016, D. R. Commander.
Copyright (C) 2015, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/i386/jchuff-sse2.asm
Copyright (C) 2009-2011, 2014-2017, D. R. Commander.
Copyright (C) 2015, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(2):
libjpeg-turbo-2.0.4/simd/arm/jsimd_neon.S
libjpeg-turbo-2.0.4/simd/arm64/jsimd_neon.S
Copyright (C) 2009-2011, Nokia Corporation and/or its subsidiary(-ies).
All Rights Reserved.

Files(1):
libjpeg-turbo-2.0.4/jpegcomp.h
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/simd/loongson/jccolor-mmi.c
Copyright (C) 2011, 2014, D. R. Commander.  All Rights Reserved.
Copyright (C) 2016-2017, Loongson Technology Corporation Limited, BeiJing.
All Rights Reserved.

Files(1):
libjpeg-turbo-2.0.4/simd/loongson/jdcolor-mmi.c
Copyright (C) 2011, 2015, D. R. Commander.  All Rights Reserved.
Copyright (C) 2016-2017, Loongson Technology Corporation Limited, BeiJing.
All Rights Reserved.

Files(4):
libjpeg-turbo-2.0.4/simd/i386/jcgray-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jcgryext-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jcgray-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jcgryext-sse2.asm
Copyright (C) 2011, 2016, D. R. Commander.
```

```
Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(4):
libjpeg-turbo-2.0.4/simd/i386/jcgray-avx2.asm
libjpeg-turbo-2.0.4/simd/i386/jcgryext-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jcgray-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jcgryext-avx2.asm
Copyright (C) 2011, 2016, D. R. Commander.
Copyright (C) 2015, Intel Corporation.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/mips/jsimd_dspr2_asm.h
Copyright (C) 2013, MIPS Technologies, Inc., California.
Copyright (C) 2018, Matthieu Darbois.
All Rights Reserved.

Files(1):
libjpeg-turbo-2.0.4/simd/mips/jsimd_dspr2.S
Copyright (C) 2013-2014, MIPS Technologies, Inc., California.
All Rights Reserved.

Files(1):
libjpeg-turbo-2.0.4/simd/loongson/jfdctint-mmi.c
Copyright (C) 2014, 2018, D. R. Commander.  All Rights Reserved.
Copyright (C) 2016-2017, Loongson Technology Corporation Limited, BeiJing.
All Rights Reserved.

Files(4):
libjpeg-turbo-2.0.4/simd/powerpc/jccolor-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jcgray-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jfdctfst-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jfdctint-altivec.c
Copyright (C) 2014, D. R. Commander.  All Rights Reserved.

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Files(1):
libjpeg-turbo-2.0.4/simd/loongson/jidctint-mmi.c
Copyright (C) 2014-2015, 2018, D. R. Commander.  All Rights Reserved.
Copyright (C) 2016-2017, Loongson Technology Corporation Limited, BeiJing.
All Rights Reserved.

Files(4):
```

```
libjpeg-turbo-2.0.4/simd/powerpc/jidctfst-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jidctint-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jquanti-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jsimd_altivec.h
Copyright (C) 2014-2015, D. R. Commander.  All Rights Reserved.

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Files(2):
libjpeg-turbo-2.0.4/simd/powerpc/jccolext-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jcgryext-altivec.c
Copyright (C) 2014-2015, D. R. Commander.  All Rights Reserved.
Copyright (C) 2014, Jay Foad.  All Rights Reserved.

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Files(2):
libjpeg-turbo-2.0.4/jaricom.c
libjpeg-turbo-2.0.4/jcarith.c
Copyright (C) 2015, 2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(2):
libjpeg-turbo-2.0.4/simd/loongson/jcsample-mmi.c
libjpeg-turbo-2.0.4/simd/loongson/jdsample-mmi.c
Copyright (C) 2015, 2018, D. R. Commander.  All Rights Reserved.
Copyright (C) 2016-2017, Loongson Technology Corporation Limited, BeiJing.
All Rights Reserved.

Files(6):
libjpeg-turbo-2.0.4/simd/powerpc/jcsample-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jdcolext-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jdcolor-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jdmerge-altivec.c
libjpeg-turbo-2.0.4/simd/powerpc/jdmrgext-altivec.c
```

```
libjpeg-turbo-2.0.4/simd/powerpc/jdsample-altivec.c
Copyright (C) 2015, D. R. Commander.  All Rights Reserved.

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Files(1):
libjpeg-turbo-2.0.4/simd/i386/jccolext-avx2.asm
Copyright (C) 2015, Intel Corporation.
Copyright (C) 2016, D. R. Commander.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/jdarith.c
Copyright (C) 2015-2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(2):
libjpeg-turbo-2.0.4/simd/i386/jcphuff-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jcphuff-sse2.asm
Copyright (C) 2016, 2018, Matthieu Darbois

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/i386/jccolext-sse2.asm
Copyright (C) 2016, D. R. Commander.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(2):
libjpeg-turbo-2.0.4/simd/loongson/jquanti-mmi.c
libjpeg-turbo-2.0.4/simd/loongson/jsimd_mmi.h
Copyright (C) 2016-2017, Loongson Technology Corporation Limited, BeiJing.
All Rights Reserved.

Files(1):
libjpeg-turbo-2.0.4/simd/loongson/loongson-mmintrin.h
Copyright (C) 2016-2018, Loongson Technology Corporation Limited, BeiJing.
All Rights Reserved.
Copyright (C) 2019, D. R. Commander.  All Rights Reserved.

This software is provided 'as-is', without any express or implied
```

```
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Files(1):
libjpeg-turbo-2.0.4/cmyk.h
Copyright (C) 2017-2018, D. R. Commander.
For conditions of distribution and use, see the accompanying README.ijg
file.

Files(1):
libjpeg-turbo-2.0.4/jsimddct.h
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(4):
libjpeg-turbo-2.0.4/simd/i386/jfdctint-avx2.asm
libjpeg-turbo-2.0.4/simd/i386/jidctint-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jfdctint-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jidctint-avx2.asm
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009, 2016, 2018, D. R. Commander.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/x86_64/jquanti-avx2.asm
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009, 2016, 2018, D. R. Commander.
Copyright (C) 2016, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(18):
libjpeg-turbo-2.0.4/simd/i386/jccolor-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jdcolor-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jdcolor-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jdmerge-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jdmerge-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jcsample-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jdcolor-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jdmerge-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jdsample-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jfdctflt-sse.asm
libjpeg-turbo-2.0.4/simd/x86_64/jfdctfst-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jfdctint-sse2.asm
```

```
libjpeg-turbo-2.0.4/simd/x86_64/jidctflt-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jidctfst-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jidctint-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jidctred-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jquantf-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jquanti-sse2.asm
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009, 2016, D. R. Commander.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(5):
libjpeg-turbo-2.0.4/simd/i386/jdmerge-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jcsample-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jdcolor-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jdmerge-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jdsample-avx2.asm
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009, 2016, D. R. Commander.
Copyright (C) 2015, Intel Corporation.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/i386/jsimd.c
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009-2011, 2013-2014, 2016, 2018, D. R. Commander.
Copyright (C) 2015-2016, 2018, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/loongson/jsimd.c
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009-2011, 2014, 2016, 2018, D. R. Commander.
Copyright (C) 2013-2014, MIPS Technologies, Inc., California.
Copyright (C) 2015, 2018, Matthieu Darbois.
Copyright (C) 2016-2017, Loongson Technology Corporation Limited, BeiJing.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/mips/jsimd.c
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009-2011, 2014, 2016, 2018, D. R. Commander.
Copyright (C) 2013-2014, MIPS Technologies, Inc., California.
Copyright (C) 2015-2016, 2018, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/x86_64/jsimd.c
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009-2011, 2014, 2016, 2018, D. R. Commander.
```

```
Copyright (C) 2015-2016, 2018, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/jsimd_none.c
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009-2011, 2014, D. R. Commander.
Copyright (C) 2015-2016, 2018, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/powerpc/jsimd.c
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009-2011, 2014-2016, 2018, D. R. Commander.
Copyright (C) 2015-2016, 2018, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/nasm/jsimdext.inc
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2010, 2016, 2019, D. R. Commander.
Copyright (C) 2018, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library - version 1.02

Copyright (C) 1999-2006, MIYASAKA Masaru.

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Files(1):
libjpeg-turbo-2.0.4/jsimd.h
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2011, 2014, D. R. Commander.
Copyright (C) 2015-2016, 2018, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/jsimd.h
```

```
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2011, 2014-2016, 2018, D. R. Commander.
Copyright (C) 2013-2014, MIPS Technologies, Inc., California.
Copyright (C) 2014, Linaro Limited.
Copyright (C) 2015-2016, 2018, Matthieu Darbois.
Copyright (C) 2016-2017, Loongson Technology Corporation Limited, BeiJing.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(2):
libjpeg-turbo-2.0.4/simd/i386/jcgray-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jcgryext-mmx.asm
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2011, 2016, D. R. Commander.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/arm64/jsimd.c
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2011, Nokia Corporation and/or its subsidiary(-ies).
Copyright (C) 2009-2011, 2013-2014, 2016, 2018, D. R. Commander.
Copyright (C) 2015-2016, 2018, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/arm/jsimd.c
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2011, Nokia Corporation and/or its subsidiary(-ies).
Copyright (C) 2009-2011, 2013-2014, 2016, 2018, D. R. Commander.
Copyright (C) 2015-2016, 2018, Matthieu Darbois.
Copyright (C) 2019, Google LLC.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/loongson/jccolext-mmi.c
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2014-2015, 2019, D. R. Commander.  All Rights Reserved.
Copyright (C) 2016-2018, Loongson Technology Corporation Limited, BeiJing.
All Rights Reserved.

Files(1):
libjpeg-turbo-2.0.4/simd/loongson/jdcolext-mmi.c
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2015, D. R. Commander.  All Rights Reserved.
Copyright (C) 2016-2017, Loongson Technology Corporation Limited, BeiJing.
All Rights Reserved.

Files(1):
libjpeg-turbo-2.0.4/simd/nasm/jcolsamp.inc
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2015, Intel Corporation.

Based on the x86 SIMD extension for IJG JPEG library
```

```
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(3):
libjpeg-turbo-2.0.4/simd/i386/jcsample-avx2.asm
libjpeg-turbo-2.0.4/simd/i386/jdcolor-avx2.asm
libjpeg-turbo-2.0.4/simd/i386/jdsample-avx2.asm
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2015, Intel Corporation.
Copyright (C) 2016, D. R. Commander.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/i386/jquanti-avx2.asm
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2016, 2018, D. R. Commander.
Copyright (C) 2016, Matthieu Darbois.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/x86_64/jsimdcpu.asm
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2016, D. R. Commander.

Based on
x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(28):
libjpeg-turbo-2.0.4/simd/i386/jccolext-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jcsample-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jcsample-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jdcolext-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jdmrgext-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jdsample-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jdsample-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jfdctflt-3dn.asm
libjpeg-turbo-2.0.4/simd/i386/jfdctflt-sse.asm
libjpeg-turbo-2.0.4/simd/i386/jfdctfst-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jfdctfst-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jfdctint-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jfdctint-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jidctflt-3dn.asm
libjpeg-turbo-2.0.4/simd/i386/jidctflt-sse.asm
libjpeg-turbo-2.0.4/simd/i386/jidctflt-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jidctfst-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jidctfst-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jidctint-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jidctint-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jidctred-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jidctred-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jquant-3dn.asm
libjpeg-turbo-2.0.4/simd/i386/jquant-mmx.asm
libjpeg-turbo-2.0.4/simd/i386/jquant-sse.asm
libjpeg-turbo-2.0.4/simd/i386/jquantf-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jquanti-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jsimdcpu.asm
```

```
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2016, D. R. Commander.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(1):
libjpeg-turbo-2.0.4/simd/nasm/jdct.inc
Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2018, D. R. Commander.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(2):
libjpeg-turbo-2.0.4/simd/x86_64/jdcolext-sse2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jdmrgext-sse2.asm
Copyright 2009, 2012 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009, 2012, 2016, D. R. Commander.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(2):
libjpeg-turbo-2.0.4/simd/x86_64/jdcolext-avx2.asm
libjpeg-turbo-2.0.4/simd/x86_64/jdmrgext-avx2.asm
Copyright 2009, 2012 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2009, 2012, 2016, D. R. Commander.
Copyright (C) 2015, Intel Corporation.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(2):
libjpeg-turbo-2.0.4/simd/i386/jdcolext-sse2.asm
libjpeg-turbo-2.0.4/simd/i386/jdmrgext-sse2.asm
Copyright 2009, 2012 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2012, 2016, D. R. Commander.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

Files(2):
libjpeg-turbo-2.0.4/simd/i386/jdcolext-avx2.asm
libjpeg-turbo-2.0.4/simd/i386/jdmrgext-avx2.asm
Copyright 2009, 2012 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright (C) 2012, 2016, D. R. Commander.
Copyright (C) 2015, Intel Corporation.

Based on the x86 SIMD extension for IJG JPEG library
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc
```

Provider: Dan Abramov / Component(s): react-redux 5.0.7

```
Copyright (c) 2015-present Dan Abramov
---------separator---------
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
hoist-non-react-statics 2.5.0 (BSD-3-Clause)
Copyright (c) 2015, Yahoo! Inc. All rights reserved.
-----------------------------------------------------

Redistribution and use of this software in source and binary forms, with or
 without modification, are permitted provided that the following conditions
 are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer. * Redistributions
 in binary form must reproduce the above copyright notice, this list
 of conditions and the following disclaimer in the documentation and/or
 other materials provided with the distribution. * Neither the name of
 Yahoo! Inc. nor the names of YUI's contributors may be used to endorse or
 promote products derived from this software without specific prior written
 permission of Yahoo! Inc.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
---------separator---------
lodash-es 4.17.10 (MIT)
Copyright JS Foundation and other contributors <https://js.foundation/>
---------separator---------
lodash 4.17.10 (MIT)
Copyright JS Foundation and other contributors <https://js.foundation/>
---------separator---------
lodash-es 4.17.10
lodash 4.17.10

Based on Underscore.js, copyright Jeremy Ashkenas, DocumentCloud and
 Investigative Reporters & Editors <http://underscorejs.org/>

This software consists of voluntary contributions made by many individuals.
 For exact contribution history, see the revision history available at
 https://github.com/lodash/lodash
```

```
The following license applies to all parts of this software except as
 documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
 code is defined as all source code displayed within the prose of the
 documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

Files located in the node_modules and vendor directories are externally
 maintained libraries used by this software which have their own licenses;
 we recommend you read them, as their terms may differ from the terms above.
---------separator---------
encoding 0.1.12 (MIT)
Copyright (c) 2012-2014 Andris Reinman
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
ua-parser-js 0.7.18 (GPL-2.0 OR MIT)
Copyright © 2012-2016 Faisal Salman <<fyzlman@gmail.com>>
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
---------separator---------
asap 2.0.6 (MIT)
Copyright 2009-2014 Contributors. All rights reserved.
---------separator---------
safer-buffer 2.1.2 (MIT)
Copyright (c) 2018 Nikita Skovoroda <chalkerx@gmail.com>
---------separator---------
prop-types 15.6.1 (MIT)
Copyright (c) 2013-present, Facebook, Inc.
---------separator---------
js-tokens 3.0.2 (MIT)
Copyright (c) 2014, 2015, 2016, 2017 Simon Lydell
---------separator---------
loose-envify 1.3.1 (MIT)
Copyright (c) 2015 Andres Suarez <zertosh@gmail.com>
---------separator---------
fbjs 0.8.16 (MIT)
Copyright (c) 2013-present, Facebook, Inc.
---------separator---------
invariant 2.2.4 (MIT)
Copyright (c) 2013-present, Facebook, Inc.
---------separator---------
core-js 1.2.7 (MIT)
Copyright (c) 2015 Denis Pushkarev
---------separator---------
setimmediate 1.0.5 (MIT)
Copyright (c) 2012 Barnesandnoble.com, llc, Donavon West, and Domenic
 Denicola
---------separator---------
is-stream 1.1.0 (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
---------separator---------
whatwg-fetch 2.0.4 (MIT)
Copyright (c) 2014-2016 GitHub, Inc.
---------separator---------
node-fetch 1.7.3 (MIT)
Copyright (c) 2016 David Frank
---------separator---------
promise 7.3.1 (MIT)
Copyright (c) 2014 Forbes Lindesay
---------separator---------
object-assign 4.1.1 (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
---------separator---------
iconv-lite 0.4.23 (MIT)
Copyright (c) 2011 Alexander Shtuchkin
---------separator---------
isomorphic-fetch 2.2.1 (MIT)
Copyright (c) 2015 Matt Andrews
---------separator---------
asap 2.0.6
safer-buffer 2.1.2
prop-types 15.6.1
js-tokens 3.0.2
loose-envify 1.3.1
fbjs 0.8.16
invariant 2.2.4
core-js 1.2.7
setimmediate 1.0.5
is-stream 1.1.0
whatwg-fetch 2.0.4
node-fetch 1.7.3
```

```
promise 7.3.1
object-assign 4.1.1
iconv-lite 0.4.23
isomorphic-fetch 2.2.1

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
```

Provider: Dan Abramov / Component(s): redux 3.7.2

```
The MIT License (MIT)

Copyright (c) 2015-present Dan Abramov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


 "dependencies": {

— lodash@4.5.1 -MIT
https://github.com/lodash/lodash/blob/master/LICENSE
The MIT License

Copyright JS Foundation and other contributors <https://js.foundation/>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <http://
underscorejs.org/>

This software consists of voluntary contributions made by many
```

```
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code displayed within the prose of the
documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

Files located in the node_modules and vendor directories are externally
maintained libraries used by this software which have their own
licenses; we recommend you read them, as their terms may differ from the
terms above.

- lodash-es@4.17.4 - MIT
https://github.com/lodash/lodash/blob/master/LICENSE
The MIT License

Copyright JS Foundation and other contributors <https://js.foundation/>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <http://
underscorejs.org/>

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
```

```
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code displayed within the prose of the
documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

Files located in the node_modules and vendor directories are externally
maintained libraries used by this software which have their own
licenses; we recommend you read them, as their terms may differ from the
terms above.


    "loose-envify": "^1.1.0", - MIT
https://github.com/zertosh/loose-envify/blob/master/LICENSE
The MIT License (MIT)

Copyright (c) 2015 Andres Suarez <zertosh@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

    "symbol-observable": "^1.0.3" - MIT
https://github.com/benlesh/symbol-observable/blob/master/license
The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
Copyright (c) Ben Lesh <ben@benlesh.com>
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Dan Abramov / Component(s): redux 4.0.0

```
Copyright (c) 2015-present Dan Abramov
---------separator---------
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
symbol-observable@1.2.0 (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
Copyright (c) Ben Lesh <ben@benlesh.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
loose-envify@1.4.0 (MIT)
Copyright (c) 2015 Andres Suarez <zertosh@gmail.com>
---------separator---------
js-tokens@4.0.0 (MIT)
Copyright (c) 2014, 2015, 2016, 2017, 2018 Simon Lydell
---------separator---------
loose-envify@1.4.0
js-tokens@4.0.0

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
```

Provider: Dan Abramov / Component(s): redux-thunk 2.3.0

```
https://github.com/gaearon/redux-thunk/blob/master/LICENSE.md

The MIT License (MIT)

Copyright (c) 2015 Dan Abramov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Dan Kogai / Component(s): js-base64 3.7.5

```
Copyright (c) 2014, Dan Kogai All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    Neither the name of {{{project}}} nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

Provider: Daniel Bader / Component(s): Schedule 1.2.2

```
The MIT License (MIT)

Copyright (c) 2013 Daniel Bader (http://dbader.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Daniel Holth / Component(s): wheel 0.26.0

```
"wheel" copyright (c) 2012-2014 Daniel Holth <dholth@fastmail.fm> and
contributors.

The MIT License

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
```

```
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Daniel Holth / Component(s): wheel 0.29.0

```
"wheel" copyright (c) 2012-2014 Daniel Holth <dholth@fastmail.fm> and
contributors.

The MIT License

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Daniel Holth / Component(s): wheel 0.32.3

```
"wheel" copyright (c) 2012-2014 Daniel Holth <dholth@fastmail.fm> and
contributors.

The MIT License

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
```

```
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Daniel Lemire and John Keiser / Component(s): simdjson 1.0.1

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
```

```
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
```

```
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2018-2019 The simdjson authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Daniel Stenberg / Component(s): Curl 7.75.0

```
COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2019, Daniel Stenberg, <daniel@haxx.se>, and many
contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
 IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE
OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not
be used in advertising or otherwise to promote the sale, use or other
 dealings
in this Software without prior written authorization of the copyright
 holder.
```

Provider: Daniel Stenberg / Component(s): Curl 7.85.0

```
COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2020, Daniel Stenberg, <daniel@haxx.se>, and many
contributors, see the THANKS file.

All rights reserved.
```

```
Permission to use, copy, modify, and distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
 IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE
OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not
be used in advertising or otherwise to promote the sale, use or other
 dealings
in this Software without prior written authorization of the copyright
 holder.
```

Provider: Daniel Theophanes / Component(s): Kardianos Service 1.2.1

```
=== Public License Template ===
github.com/kardianos/service
-------- Copyrights
Copyright 2015 Daniel Theophanes.
Copyright (c) 2015 Daniel Theophanes
Copyright 2019 Daniel Theophanes.
Copyright 2016 Lawrence Woodman <lwoodman@vlifesystems.com>

-------- License
zlib License
This software is provided 'as-is', without any express or implied warranty.
 In
no event will the authors be held liable for any damages arising from the
 use of
this software.

Permission is granted to anyone to use this software for any purpose,
 including
commercial applications, and to alter it and redistribute it freely, subject
 to
the following restrictions:

1. The origin of this software must not be misrepresented; you must not
 claim
   that you wrote the original software. If you use this software in a
 product,
   an acknowledgment in the product documentation would be appreciated but
 is
   not required.

2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
golang.org/x/sys
-------- Copyrights
```

```
Copyright 2019 The Go Authors. All rights reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.

-------- Dependencies Summary
golang.org/x/sys

-------- License used by Dependencies
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=== ATTRIBUTION-HELPER-GENERATED:
=== License file based on go.mod with md5 sum:
 c820c20a33209c3be07f560a98cda089
```

Provider: Daniel Veillard / Component(s): libvirt 4.5.0-36.el7

```
License
The libvirt C API is distributed under the terms of GNU Lesser General
 Public License, version 2.1
(or later). Some parts of the code that are not part of the C library may
 have the more restrictive
GNU General Public License, version 2.1 (or later). See the files
 COPYING.LESSER and COPYING for
full license terms & conditions.
-----
                  GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
```

```
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
```

```
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.
```

```
    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
```

```
  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)
```

```
    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
```

```
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.
```

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

Copyright (C)

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software

```
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  , 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!



------


------
                    GNU GENERAL PUBLIC LICENSE
                       Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
```

```
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

                    GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
```

```
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
```

```
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
```

```
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                             NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                      END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.


    Copyright (C)

    This program is free software; you can redistribute it and/or modify
```

```
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  , 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
```

Provider: Data Science 8 / Component(s): jupyter-server-proxy 3.2.2

```
------------------------------- Top-level license --------------------------
BSD 3-Clause License

Copyright (c) 2017, Data Science 8
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
```

```
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== NAME OF DEPENDENCY 1
aiohttp
== License
 Apache-2.0 license

 Copyright aio-libs contributors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   == NAME OF DEPENDENCY 2
  jupyter-server
   == License
    BSD 3

    This project is licensed under the terms of the Modified BSD License
 (also known as New or Revised or 3-Clause BSD), as follows:

  Copyright (c) 2001-2015, IPython Development Team
  Copyright (c) 2015-, Jupyter Development Team
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

  Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

  Neither the name of the Jupyter Development Team nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
```

```
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  About the Jupyter Development Team
  The Jupyter Development Team is the set of all contributors to the Jupyter
 project. This includes all of the Jupyter subprojects.

  The core team that coordinates development on GitHub can be found here:
 https://github.com/jupyter/.

  Our Copyright Policy
  Jupyter uses a shared copyright model. Each contributor maintains
 copyright over their contributions to Jupyter. But, it is important to note
 that these contributions are typically only changes to the repositories.
 Thus, the Jupyter source code, in its entirety is not the copyright of
 any single person or institution. Instead, it is the collective copyright
 of the entire Jupyter Development Team. If individual contributors want
 to maintain a record of what changes/contributions they have specific
 copyright on, they should indicate their copyright in the commit message of
 the change, when they commit the change to one of the Jupyter repositories.

  With this in mind, the following banner should be used in any source code
 file to indicate the copyright and license terms:

  # Copyright (c) Jupyter Development Team.
  # Distributed under the terms of the Modified BSD License.

  == NAME OF DEPENDENCY 3
   simpervisor
  == License
   BSD 3

BSD 3-Clause License

Copyright (c) 2018, Yuvi Panda
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Data Science 8 / Component(s): jupyter-server-proxy 3.2.2

```
------------------------------- Top-level license --------------------------
BSD 3-Clause License

Copyright (c) 2017, Data Science 8
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== NAME OF DEPENDENCY 1
aiohttp
== License
 Apache-2.0 license

 Copyright aio-libs contributors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

  == NAME OF DEPENDENCY 2
 jupyter-server
  == License
   BSD 3

   This project is licensed under the terms of the Modified BSD License
(also known as New or Revised or 3-Clause BSD), as follows:

 Copyright (c) 2001-2015, IPython Development Team
 Copyright (c) 2015-, Jupyter Development Team
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

 Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

 Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

 Neither the name of the Jupyter Development Team nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 About the Jupyter Development Team
 The Jupyter Development Team is the set of all contributors to the Jupyter
project. This includes all of the Jupyter subprojects.

 The core team that coordinates development on GitHub can be found here:
https://github.com/jupyter/.

 Our Copyright Policy
 Jupyter uses a shared copyright model. Each contributor maintains
copyright over their contributions to Jupyter. But, it is important to note
that these contributions are typically only changes to the repositories.
Thus, the Jupyter source code, in its entirety is not the copyright of
any single person or institution. Instead, it is the collective copyright
of the entire Jupyter Development Team. If individual contributors want
to maintain a record of what changes/contributions they have specific
copyright on, they should indicate their copyright in the commit message of
the change, when they commit the change to one of the Jupyter repositories.

 With this in mind, the following banner should be used in any source code
file to indicate the copyright and license terms:
```

```
  # Copyright (c) Jupyter Development Team.
  # Distributed under the terms of the Modified BSD License.

  == NAME OF DEPENDENCY 3
   simpervisor
  == License
   BSD 3

BSD 3-Clause License

Copyright (c) 2018, Yuvi Panda
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Databricks / Component(s): mlflow 2.2.2

```
========Third Party Info========
mlflow
Apache License 2.0
Copyright 2018 Databricks, Inc.  All rights reserved.

    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

========Fourth Party Info========
```

```
------------
 ---------------------------------------------------------------------------
Name          jinja2
License       BSD License
License Text  Copyright 2007 Pallets

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are
              met:

              1.  Redistributions of source code must retain the above
 copyright
                  notice, this list of conditions and the following
 disclaimer.

              2.  Redistributions in binary form must reproduce the above
 copyright
                  notice, this list of conditions and the following
 disclaimer in the
                  documentation and/or other materials provided with the
 distribution.

              3.  Neither the name of the copyright holder nor the names of
 its
                  contributors may be used to endorse or promote products
 derived from
                  this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR A
              PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
              HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED
              TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR
              PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
              LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
              NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
              SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------  ----------
Name          setuptools
License       MIT
License Text

Copyright Jason R. Coombs

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
```

```
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
------------  ----------
------------
 ---------------------------------------------------------------------------
Name          markupsafe
License       BSD License
License Text  Copyright 2010 Pallets

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are
              met:

              1.  Redistributions of source code must retain the above
 copyright
                  notice, this list of conditions and the following
 disclaimer.

              2.  Redistributions in binary form must reproduce the above
 copyright
                  notice, this list of conditions and the following
 disclaimer in the
                  documentation and/or other materials provided with the
 distribution.

              3.  Neither the name of the copyright holder nor the names of
 its
                  contributors may be used to endorse or promote products
 derived from
                  this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR A
              PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
              HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED
              TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR
              PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
              LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
              NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
```

```
              SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          slicer
License       MIT License
License Text  MIT License

              Copyright (c) 2020 InterpretML

              Permission is hereby granted, free of charge, to any person
 obtaining a copy
              of this software and associated documentation files (the
 "Software"), to deal
              in the Software without restriction, including without
 limitation the rights
              to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
              copies of the Software, and to permit persons to whom the
 Software is
              furnished to do so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          cloudpickle
License       BSD License
License Text  This module was extracted from the `cloud` package, developed
 by
              PiCloud, Inc.

              Copyright (c) 2015, Cloudpickle contributors.
              Copyright (c) 2012, Regents of the University of California.
              Copyright (c) 2009 PiCloud, Inc. http://www.picloud.com.
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions
              are met:
                  * Redistributions of source code must retain the above
 copyright
                    notice, this list of conditions and the following
 disclaimer.
```

```
                  * Redistributions in binary form must reproduce the above
 copyright
                    notice, this list of conditions and the following
 disclaimer in the
                    documentation and/or other materials provided with the
 distribution.
                  * Neither the name of the University of California,
 Berkeley nor the
                    names of its contributors may be used to endorse or
 promote
                    products derived from this software without specific
 prior written
                    permission.

             THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
             "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
             LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR
             A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
             HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
             SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED
             TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR
             PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
             LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
             NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
             SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          charset-normalizer
License       MIT License
License Text  MIT License

             Copyright (c) 2019 TAHRI Ahmed R.

             Permission is hereby granted, free of charge, to any person
 obtaining a copy
             of this software and associated documentation files (the
 "Software"), to deal
             in the Software without restriction, including without
 limitation the rights
             to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
             copies of the Software, and to permit persons to whom the
 Software is
             furnished to do so, subject to the following conditions:

             The above copyright notice and this permission notice shall be
 included in all
             copies or substantial portions of the Software.

             THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
```

```
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          mako
License       MIT License
License Text  Copyright 2006-2022 the Mako authors and contributors <see
 AUTHORS file>.

              Permission is hereby granted, free of charge, to any person
 obtaining a copy of
              this software and associated documentation files (the
 "Software"), to deal in
              the Software without restriction, including without limitation
 the rights to
              use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies
              of the Software, and to permit persons to whom the Software is
 furnished to do
              so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          shap
License       MIT
License Text  The MIT License (MIT)

              Copyright (c) 2018 Scott Lundberg

              Permission is hereby granted, free of charge, to any person
 obtaining a copy
              of this software and associated documentation files (the
 "Software"), to deal
```

```
              in the Software without restriction, including without
 limitation the rights
              to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
              copies of the Software, and to permit persons to whom the
 Software is
              furnished to do so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ---------------------------------------------------------------------------
------------  -----------------
Name          typing-extensions
License       Python Software Foundation License
License Text

A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
```

```
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
```

```
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.
```

```
7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
```

```
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
------------  -----------------
------------  -----------------------
Name          importlib-metadata
License       Apache Software License
License Text
------------  -----------------------
------------
 ---------------------------------------------------------------------------
Name          pyjwt
License       MIT License
License Text  The MIT License (MIT)

              Copyright (c) 2015-2022 José Padilla

              Permission is hereby granted, free of charge, to any person
 obtaining a copy
              of this software and associated documentation files (the
 "Software"), to deal
              in the Software without restriction, including without
 limitation the rights
              to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
              copies of the Software, and to permit persons to whom the
 Software is
              furnished to do so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.
```

```
              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ---------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------
Name          gitpython
License       BSD License
License Text  Copyright (C) 2008, 2009 Michael Trier and contributors
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions
              are met:

              * Redistributions of source code must retain the above
 copyright
              notice, this list of conditions and the following disclaimer.

              * Redistributions in binary form must reproduce the above
 copyright
              notice, this list of conditions and the following disclaimer
 in the
              documentation and/or other materials provided with the
 distribution.

              * Neither the name of the GitPython project nor the names of
              its contributors may be used to endorse or promote products
 derived
              from this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR
              A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
              OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED
              TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR
              PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
              LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
```

```
              NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
              SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          smmap
License       BSD License
License Text  Copyright (C) 2010, 2011 Sebastian Thiel and contributors
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions
              are met:

              * Redistributions of source code must retain the above
 copyright
              notice, this list of conditions and the following disclaimer.

              * Redistributions in binary form must reproduce the above
 copyright
              notice, this list of conditions and the following disclaimer
 in the
              documentation and/or other materials provided with the
 distribution.

              * Neither the name of the async project nor the names of
              its contributors may be used to endorse or promote products
 derived
              from this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR
              A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
              OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED
              TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR
              PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
              LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
              NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
              SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------------------
Name          pandas
License       BSD License
License Text  BSD 3-Clause License
```

```
              Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda
 Foundry, Inc. and PyData Development Team
              All rights reserved.

              Copyright (c) 2011-2022, Open source contributors.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:

              * Redistributions of source code must retain the above
 copyright notice, this
                list of conditions and the following disclaimer.

              * Redistributions in binary form must reproduce the above
 copyright notice,
                this list of conditions and the following disclaimer in the
 documentation
                and/or other materials provided with the distribution.

              * Neither the name of the copyright holder nor the names of
 its
                contributors may be used to endorse or promote products
 derived from
                this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
 CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 ---------------------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          pyyaml
License       MIT License
License Text
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
```

```
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
------------
 ---------------------------------------------------------------------------
------------
 ----------------------------------------------------------------------
Name          werkzeug
License       BSD License
License Text  Copyright 2007 Pallets

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are
              met:

              1.  Redistributions of source code must retain the above
 copyright
                  notice, this list of conditions and the following
 disclaimer.

              2.  Redistributions in binary form must reproduce the above
 copyright
                  notice, this list of conditions and the following
 disclaimer in the
                  documentation and/or other materials provided with the
 distribution.

              3.  Neither the name of the copyright holder nor the names of
 its
                  contributors may be used to endorse or promote products
 derived from
                  this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR A
              PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
              HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED
              TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR
```

```
              PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
              LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
              NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
              SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------------------
Name          certifi
License       Mozilla Public License 2.0 (MPL 2.0)
License Text  This package contains a modified version of ca-bundle.crt:

              ca-bundle.crt -- Bundle of CA Root Certificates

              Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
              This is a bundle of X.509 certificates of public Certificate
 Authorities
              (CA). These were automatically extracted from Mozilla's root
 certificates
              file (certdata.txt).  This file can be found in the mozilla
 source tree:
              https://hg.mozilla.org/mozilla-central/file/tip/security/nss/
lib/ckfw/builtins/certdata.txt
              It contains the certificates in PEM format and therefore
              can be directly used with curl / libcurl / php_curl, or with
              an Apache+mod_ssl webserver for SSL client authentication.
              Just configure this file as the SSLCACertificateFile.#

              ***** BEGIN LICENSE BLOCK *****
              This Source Code Form is subject to the terms of the Mozilla
 Public License,
              v. 2.0. If a copy of the MPL was not distributed with this
 file, You can obtain
              one at http://mozilla.org/MPL/2.0/.

              ***** END LICENSE BLOCK *****
              @(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date:
 2011/11/03 15:11:58 $
------------
 ------------------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          idna
License       BSD License
License Text  BSD 3-Clause License

              Copyright (c) 2013-2021, Kim Davies
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:

              1. Redistributions of source code must retain the above
 copyright notice, this
                 list of conditions and the following disclaimer.

              2. Redistributions in binary form must reproduce the above
 copyright notice,
```

```
                 this list of conditions and the following disclaimer in the
 documentation
                 and/or other materials provided with the distribution.

              3. Neither the name of the copyright holder nor the names of
 its
                 contributors may be used to endorse or promote products
 derived from
                 this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
 CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------
Name          pyparsing
License       MIT License
License Text  Permission is hereby granted, free of charge, to any person
 obtaining
              a copy of this software and associated documentation files
 (the
              "Software"), to deal in the Software without restriction,
 including
              without limitation the rights to use, copy, modify, merge,
 publish,
              distribute, sublicense, and/or sell copies of the Software,
 and to
              permit persons to whom the Software is furnished to do so,
 subject to
              the following conditions:

              The above copyright notice and this permission notice shall be
              included in all copies or substantial portions of the
 Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND,
              EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
 WARRANTIES OF
              MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT.
              IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
 FOR ANY
              CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
```

```
              TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH
 THE
              SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
------------
 ---------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          cycler
License       BSD License
License Text  Copyright (c) 2015, matplotlib project
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:

              * Redistributions of source code must retain the above
 copyright notice, this
                list of conditions and the following disclaimer.

              * Redistributions in binary form must reproduce the above
 copyright notice,
                this list of conditions and the following disclaimer in the
 documentation
                and/or other materials provided with the distribution.

              * Neither the name of the matplotlib project nor the names of
 its
                contributors may be used to endorse or promote products
 derived from
                this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
 CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 ------------------------------------------------------------------------------
------------  -------------------------------------
Name          python-dateutil
License       Apache Software License; BSD License
License Text
------------  -------------------------------------
------------
 ---------------------------------------------------------------------------
Name          pytz
License       MIT License
```

```
License Text  Copyright (c) 2003-2019 Stuart Bishop
 <stuart@stuartbishop.net>

              Permission is hereby granted, free of charge, to any person
 obtaining a
              copy of this software and associated documentation files (the
 "Software"),
              to deal in the Software without restriction, including without
 limitation
              the rights to use, copy, modify, merge, publish, distribute,
 sublicense,
              and/or sell copies of the Software, and to permit persons to
 whom the
              Software is furnished to do so, subject to the following
 conditions:

              The above copyright notice and this permission notice shall be
 included in
              all copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL
              THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
 DAMAGES OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING
              FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
 OTHER
              DEALINGS IN THE SOFTWARE.
------------
 ---------------------------------------------------------------------------
------------
 ----------------------------------------------------------------------
Name          llvmlite
License       BSD
License Text  Copyright (c) 2014-, Continuum Analytics, Inc.
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are
              met:

              Redistributions of source code must retain the above copyright
 notice,
              this list of conditions and the following disclaimer.

              Redistributions in binary form must reproduce the above
 copyright
              notice, this list of conditions and the following disclaimer
 in the
              documentation and/or other materials provided with the
 distribution.
              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR
```

```
               A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
               HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
               SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT
               LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
 OF USE,
               DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY
               THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT
               (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 THE USE
               OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 ---------------------------------------------------------------------
------------
 -------------------------------------------------------------------
Name          gunicorn
License       MIT License
License Text  2009-2018 (c) Benoît Chesneau <benoitc@e-engura.org>
              2009-2015 (c) Paul J. Davis <paul.joseph.davis@gmail.com>

              Permission is hereby granted, free of charge, to any person
              obtaining a copy of this software and associated documentation
              files (the "Software"), to deal in the Software without
              restriction, including without limitation the rights to use,
              copy, modify, merge, publish, distribute, sublicense, and/or
 sell
              copies of the Software, and to permit persons to whom the
              Software is furnished to do so, subject to the following
              conditions:

              The above copyright notice and this permission notice shall be
              included in all copies or substantial portions of the
 Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND,
              EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
 WARRANTIES
              OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
              NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
              HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
              WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
              FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
              OTHER DEALINGS IN THE SOFTWARE.
------------
 -------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------------
Name          gitdb
License       BSD License
License Text  Copyright (C) 2010, 2011 Sebastian Thiel and contributors
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions
              are met:
```

```
              * Redistributions of source code must retain the above
 copyright
              notice, this list of conditions and the following disclaimer.

              * Redistributions in binary form must reproduce the above
 copyright
              notice, this list of conditions and the following disclaimer
 in the
              documentation and/or other materials provided with the
 distribution.

              * Neither the name of the GitDB project nor the names of
              its contributors may be used to endorse or promote products
 derived
              from this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR
              A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
              OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED
              TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR
              PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
              LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
              NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
              SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


              Additional Licenses
              -------------------
              The files at
              gitdb/test/fixtures/packs/
pack-11fdfa9e156ab73caae3b6da867192221f2089c2.idx
              and
              gitdb/test/fixtures/packs/
pack-11fdfa9e156ab73caae3b6da867192221f2089c2.pack
              are licensed under GNU GPL as part of the git source
 repository,
              see http://en.wikipedia.org/wiki/Git_%28software%29 for more
 information.

              They are not required for the actual operation, which is why
 they are not found
              in the distribution package.
------------
 ---------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          entrypoints
License       MIT License
License Text  The MIT License (MIT)

              Copyright (c) 2015 Thomas Kluyver and contributors
```

```
              Permission is hereby granted, free of charge, to any person
 obtaining a copy
              of this software and associated documentation files (the
 "Software"), to deal
              in the Software without restriction, including without
 limitation the rights
              to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
              copies of the Software, and to permit persons to whom the
 Software is
              furnished to do so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in
              all copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN
              THE SOFTWARE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          alembic
License       MIT License
License Text  Copyright 2009-2023 Michael Bayer.

              Permission is hereby granted, free of charge, to any person
 obtaining a copy of
              this software and associated documentation files (the
 "Software"), to deal in
              the Software without restriction, including without limitation
 the rights to
              use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies
              of the Software, and to permit persons to whom the Software is
 furnished to do
              so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
```

```
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ---------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          fonttools
License       MIT License
License Text  MIT License

              Copyright (c) 2017 Just van Rossum

              Permission is hereby granted, free of charge, to any person
 obtaining a copy
              of this software and associated documentation files (the
 "Software"), to deal
              in the Software without restriction, including without
 limitation the rights
              to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
              copies of the Software, and to permit persons to whom the
 Software is
              furnished to do so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ---------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------
Name          matplotlib
License       Python Software Foundation License
License Text  License agreement for matplotlib versions 1.3.0 and later
              ========================================================

              1. This LICENSE AGREEMENT is between the Matplotlib
 Development Team
              ("MDT"), and the Individual or Organization ("Licensee")
 accessing and
              otherwise using matplotlib software in source or binary form
 and its
              associated documentation.

              2. Subject to the terms and conditions of this License
 Agreement, MDT
              hereby grants Licensee a nonexclusive, royalty-free, world-
wide license
```

```
              to reproduce, analyze, test, perform and/or display publicly,
prepare
              derivative works, distribute, and otherwise use matplotlib
              alone or in any derivative version, provided, however, that
MDT's
              License Agreement and MDT's notice of copyright, i.e.,
"Copyright (c)
              2012- Matplotlib Development Team; All Rights Reserved" are
retained in
              matplotlib  alone or in any derivative version prepared by
              Licensee.

              3. In the event Licensee prepares a derivative work that is
based on or
              incorporates matplotlib or any part thereof, and wants to
              make the derivative work available to others as provided
herein, then
              Licensee hereby agrees to include in any such work a brief
summary of
              the changes made to matplotlib .

              4. MDT is making matplotlib available to Licensee on an "AS
              IS" basis.  MDT MAKES NO REPRESENTATIONS OR WARRANTIES,
EXPRESS OR
              IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, MDT MAKES NO
AND
              DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR
FITNESS
              FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB
              WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

              5. MDT SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF
MATPLOTLIB
               FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR
              LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE
USING
              MATPLOTLIB , OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF
              THE POSSIBILITY THEREOF.

              6. This License Agreement will automatically terminate upon a
material
              breach of its terms and conditions.

              7. Nothing in this License Agreement shall be deemed to create
any
              relationship of agency, partnership, or joint venture between
MDT and
              Licensee.  This License Agreement does not grant permission to
use MDT
              trademarks or trade name in a trademark sense to endorse or
promote
              products or services of Licensee, or any third party.

              8. By copying, installing or otherwise using matplotlib ,
              Licensee agrees to be bound by the terms and conditions of
this License
              Agreement.

              License agreement for matplotlib versions prior to 1.3.0
              ========================================================

              1. This LICENSE AGREEMENT is between John D. Hunter ("JDH"),
and the
```

```
              Individual or Organization ("Licensee") accessing and
 otherwise using
              matplotlib software in source or binary form and its
 associated
              documentation.

              2. Subject to the terms and conditions of this License
 Agreement, JDH
              hereby grants Licensee a nonexclusive, royalty-free, world-
wide license
              to reproduce, analyze, test, perform and/or display publicly,
 prepare
              derivative works, distribute, and otherwise use matplotlib
              alone or in any derivative version, provided, however, that
 JDH's
              License Agreement and JDH's notice of copyright, i.e.,
 "Copyright (c)
              2002-2011 John D. Hunter; All Rights Reserved" are retained in
              matplotlib  alone or in any derivative version prepared by
              Licensee.

              3. In the event Licensee prepares a derivative work that is
 based on or
              incorporates matplotlib  or any part thereof, and wants to
              make the derivative work available to others as provided
 herein, then
              Licensee hereby agrees to include in any such work a brief
 summary of
              the changes made to matplotlib.

              4. JDH is making matplotlib  available to Licensee on an "AS
              IS" basis.  JDH MAKES NO REPRESENTATIONS OR WARRANTIES,
 EXPRESS OR
              IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO
 AND
              DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR
 FITNESS
              FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB
              WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

              5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF
 MATPLOTLIB
               FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR
              LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE
 USING
              MATPLOTLIB , OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF
              THE POSSIBILITY THEREOF.

              6. This License Agreement will automatically terminate upon a
 material
              breach of its terms and conditions.

              7. Nothing in this License Agreement shall be deemed to create
 any
              relationship of agency, partnership, or joint venture between
 JDH and
              Licensee.  This License Agreement does not grant permission to
 use JDH
              trademarks or trade name in a trademark sense to endorse or
 promote
              products or services of Licensee, or any third party.

              8. By copying, installing or otherwise using matplotlib,
```

```
              Licensee agrees to be bound by the terms and conditions of
 this License
              Agreement.
------------
 ---------------------------------------------------------------------
------------
 --------------------------------------------------------------------
Name          tabulate
License       MIT License
License Text  Copyright (c) 2011-2020 Sergey Astanin and contributors

              Permission is hereby granted, free of charge, to any person
 obtaining
              a copy of this software and associated documentation files
 (the
              "Software"), to deal in the Software without restriction,
 including
              without limitation the rights to use, copy, modify, merge,
 publish,
              distribute, sublicense, and/or sell copies of the Software,
 and to
              permit persons to whom the Software is furnished to do so,
 subject to
              the following conditions:

              The above copyright notice and this permission notice shall be
              included in all copies or substantial portions of the
 Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND,
              EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
 WARRANTIES OF
              MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
              NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
              LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
 AN ACTION
              OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 CONNECTION
              WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 SOFTWARE.
------------
 --------------------------------------------------------------------
------------  -----------------------
Name          importlib-resources
License       Apache Software License
License Text
------------  -----------------------
------------
 ---------------------------------------------------------------------------
Name          zipp
License       MIT License
License Text  Copyright Jason R. Coombs

              Permission is hereby granted, free of charge, to any person
 obtaining a copy
              of this software and associated documentation files (the
 "Software"), to
              deal in the Software without restriction, including without
 limitation the
              rights to use, copy, modify, merge, publish, distribute,
 sublicense, and/or
```

```
              sell copies of the Software, and to permit persons to whom the
 Software is
              furnished to do so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in
              all copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING
              FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
 OTHER DEALINGS
              IN THE SOFTWARE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          kiwisolver
License       BSD License
License Text  =========================
               The Kiwi licensing terms
              =========================
              Kiwi is licensed under the terms of the Modified BSD License
 (also known as
              New or Revised BSD), as follows:

              Copyright (c) 2013, Nucleic Development Team

              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:

              Redistributions of source code must retain the above copyright
 notice, this
              list of conditions and the following disclaimer.

              Redistributions in binary form must reproduce the above
 copyright notice, this
              list of conditions and the following disclaimer in the
 documentation and/or
              other materials provided with the distribution.

              Neither the name of the Nucleic Development Team nor the names
 of its
              contributors may be used to endorse or promote products
 derived from this
              software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS" AND
              ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED
```

```
              WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE
              DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

              About Kiwi
              ----------
              Chris Colbert began the Kiwi project in December 2013 in an
effort to
              create a blisteringly fast UI constraint solver. Chris is
still the
              project lead.

              The Nucleic Development Team is the set of all contributors to
the Nucleic
              project and its subprojects.

              The core team that coordinates development on GitHub can be
found here:
              http://github.com/nucleic. The current team consists of:

              * Chris Colbert

              Our Copyright Policy
              --------------------
              Nucleic uses a shared copyright model. Each contributor
maintains copyright
              over their contributions to Nucleic. But, it is important to
note that these
              contributions are typically only changes to the repositories.
Thus, the Nucleic
              source code, in its entirety is not the copyright of any
single person or
              institution. Instead, it is the collective copyright of the
entire Nucleic
              Development Team. If individual contributors want to maintain
a record of what
              changes/contributions they have specific copyright on, they
should indicate
              their copyright in the commit message of the change, when they
commit the
              change to one of the Nucleic repositories.

              With this in mind, the following banner should be used in any
source code file
              to indicate the copyright and license terms:


#------------------------------------------------------------------------------
              # Copyright (c) 2013, Nucleic Development Team.
              #
              # Distributed under the terms of the Modified BSD License.
```

```
              #
              # The full license is in the file LICENSE, distributed with
 this software.

 #-----------------------------------------------------------------------------
------------
 -----------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          scikit-learn
License       BSD License
License Text  BSD 3-Clause License

              Copyright (c) 2007-2021 The scikit-learn developers.
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:

              * Redistributions of source code must retain the above
 copyright notice, this
                list of conditions and the following disclaimer.

              * Redistributions in binary form must reproduce the above
 copyright notice,
                this list of conditions and the following disclaimer in the
 documentation
                and/or other materials provided with the distribution.

              * Neither the name of the copyright holder nor the names of
 its
                contributors may be used to endorse or promote products
 derived from
                this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
 CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 -----------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------
Name          click
License       BSD License
License Text  Copyright 2014 Pallets
```

```
             Redistribution and use in source and binary forms, with or
 without
             modification, are permitted provided that the following
 conditions are
             met:

             1.  Redistributions of source code must retain the above
 copyright
                 notice, this list of conditions and the following
 disclaimer.

             2.  Redistributions in binary form must reproduce the above
 copyright
                 notice, this list of conditions and the following
 disclaimer in the
                 documentation and/or other materials provided with the
 distribution.

             3.  Neither the name of the copyright holder nor the names of
 its
                 contributors may be used to endorse or promote products
 derived from
                 this software without specific prior written permission.

             THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
             "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
             LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR A
             PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
             HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
             SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED
             TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR
             PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
             LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
             NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
             SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 -------------------------------------------------------------------------------
Name          joblib
License       BSD License
License Text  BSD 3-Clause License

             Copyright (c) 2008-2021, The joblib developers.
             All rights reserved.

             Redistribution and use in source and binary forms, with or
 without
             modification, are permitted provided that the following
 conditions are met:

             * Redistributions of source code must retain the above
 copyright notice, this
```

```
                list of conditions and the following disclaimer.

              * Redistributions in binary form must reproduce the above
 copyright notice,
                this list of conditions and the following disclaimer in the
 documentation
                and/or other materials provided with the distribution.

              * Neither the name of the copyright holder nor the names of
 its
                contributors may be used to endorse or promote products
 derived from
                this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
 CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name         scipy
License      BSD License
LicenseText  Copyright (c) 2001-2002 Enthought, Inc. 2003-2022, SciPy
 Developers.
             All rights reserved.

             Redistribution and use in source and binary forms, with or
 without
             modification, are permitted provided that the following
 conditions
             are met:

             1. Redistributions of source code must retain the above
 copyright
                notice, this list of conditions and the following
 disclaimer.

             2. Redistributions in binary form must reproduce the above
                copyright notice, this list of conditions and the following
                disclaimer in the documentation and/or other materials
 provided
                with the distribution.

             3. Neither the name of the copyright holder nor the names of
 its
```

```
                contributors may be used to endorse or promote products
derived
                from this software without specific prior written
permission.

            THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS
            "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT
            LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR
            A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT
            OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
            SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT
            LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE,
            DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY
            THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT
            (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE
            OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

            ----

            This binary distribution of SciPy also bundles the following
software:


            Name: OpenBLAS
            Files: .libs/libopenb*.so
            Description: bundled as a dynamically linked library
            Availability: https://github.com/xianyi/OpenBLAS/
            License: 3-clause BSD
              Copyright (c) 2011-2014, The OpenBLAS Project
              All rights reserved.

              Redistribution and use in source and binary forms, with or
without
              modification, are permitted provided that the following
conditions are
              met:

                 1. Redistributions of source code must retain the above
copyright
                    notice, this list of conditions and the following
disclaimer.

                 2. Redistributions in binary form must reproduce the above
copyright
                    notice, this list of conditions and the following
disclaimer in
                    the documentation and/or other materials provided with
the
                    distribution.
                 3. Neither the name of the OpenBLAS project nor the names
of
                    its contributors may be used to endorse or promote
products
```

```
                    derived from this software without specific prior
written
                    permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE
              ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE
              LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
WAY OUT OF THE
              USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.


            Name: LAPACK
            Files: .libs/libopenb*.so
            Description: bundled in OpenBLAS
            Availability: https://github.com/xianyi/OpenBLAS/
            License 3-clause BSD
              Copyright (c) 1992-2013 The University of Tennessee and The
University
                                      of Tennessee Research Foundation.
All rights
                                      reserved.
              Copyright (c) 2000-2013 The University of California
Berkeley. All
                                      rights reserved.
              Copyright (c) 2006-2013 The University of Colorado Denver.
All rights
                                      reserved.

              $COPYRIGHT$

              Additional copyrights may follow

              $HEADER$

              Redistribution and use in source and binary forms, with or
without
              modification, are permitted provided that the following
conditions are
              met:

              - Redistributions of source code must retain the above
copyright
                notice, this list of conditions and the following
disclaimer.

              - Redistributions in binary form must reproduce the above
copyright
                notice, this list of conditions and the following
disclaimer listed
```

```
                 in this license in the documentation and/or other materials
                 provided with the distribution.

               - Neither the name of the copyright holders nor the names of
its
                 contributors may be used to endorse or promote products
derived from
                 this software without specific prior written permission.

               The copyright holders provide no reassurances that the source
code
               provided does not infringe any patent, copyright, or any
other
               intellectual property rights of third parties.  The copyright
holders
               disclaim any liability to any recipient for claims brought
against
               recipient by any third party for infringement of that parties
               intellectual property rights.

               THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS
               "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT
               LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR
               A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT
               OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
               SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT
               LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE,
               DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY
               THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT
               (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE
               OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

            ----


--------------------------------------------------------------------------------
           LICENSES_bundled.txt

--------------------------------------------------------------------------------

           The SciPy repository and source distributions bundle a number of
libraries that
           are compatibly licensed.  We list these here.


           Name: Decorator
           Files: scipy/_lib/decorator.py
           License: 2-clause BSD
             For details, see the header inside scipy/_lib/decorator.py

           Name: ID
           Files: scipy/linalg/src/id_dist/*
           License: 3-clause BSD
```

```
              For details, see scipy/linalg/src/id_dist/doc/doc.tex

            Name: L-BFGS-B
            Files: scipy/optimize/lbfgsb/*
            License: BSD license
              For details, see scipy/optimize/lbfgsb/README

            Name: LAPJVsp
            Files: scipy/sparse/csgraph/_matching.pyx
            License: 3-clause BSD
            Copyright 1987-, A. Volgenant/Amsterdam School of Economics,
                             University of Amsterdam

              Distributed under 3-clause BSD license with permission from
              University of Amsterdam.

              Redistribution and use in source and binary forms, with or
without
              modification, are permitted provided that the following
conditions are met:

              1. Redistributions of source code must retain the above
copyright notice,
                 this list of conditions and the following disclaimer.

              2. Redistributions in binary form must reproduce the above
copyright notice,
                 this list of conditions and the following disclaimer in the
documentation
                and/or other materials provided with the distribution.

              3. Neither the name of the copyright holder nor the names of
its contributors
                 may be used to endorse or promote products derived from
this software
                without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE
              ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE
              LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR
              CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF
              SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS
              INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN
              CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE)
              ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE
              POSSIBILITY OF SUCH DAMAGE.


            Name: SuperLU
            Files: scipy/sparse/linalg/dsolve/SuperLU/*
            License: 3-clause BSD
```

```
              For details, see scipy/sparse/linalg/dsolve/SuperLU/
License.txt

            Name: ARPACK
            Files: scipy/sparse/linalg/eigen/arpack/ARPACK/*
            License: 3-clause BSD
              For details, see scipy/sparse/linalg/eigen/arpack/ARPACK/
COPYING

            Name: Qhull
            Files: scipy/spatial/qhull/*
            License: Qhull license (BSD-like)
              For details, see scipy/spatial/qhull/COPYING.txt

            Name: Cephes
            Files: scipy/special/cephes/*
            License: 3-clause BSD
              Distributed under 3-clause BSD license with permission from
 the author,
              see https://lists.debian.org/debian-legal/2004/12/
msg00295.html

              Cephes Math Library Release 2.8:  June, 2000
              Copyright 1984, 1995, 2000 by Stephen L. Moshier

              This software is derived from the Cephes Math Library and is
              incorporated herein by permission of the author.

              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:
                  * Redistributions of source code must retain the above
 copyright
                    notice, this list of conditions and the following
 disclaimer.
                  * Redistributions in binary form must reproduce the above
 copyright
                    notice, this list of conditions and the following
 disclaimer in the
                    documentation and/or other materials provided with the
 distribution.
                  * Neither the name of the <organization> nor the
                    names of its contributors may be used to endorse or
 promote products
                    derived from this software without specific prior
 written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS" AND
              ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED
              WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR
 ANY
              DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
              (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
 GOODS OR SERVICES;
              LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND
```

```
              ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT
              (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 THE USE OF THIS
              SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

            Name: Faddeeva
            Files: scipy/special/Faddeeva.*
            License: MIT
              Copyright (c) 2012 Massachusetts Institute of Technology

              Permission is hereby granted, free of charge, to any person
 obtaining
              a copy of this software and associated documentation files
 (the
              "Software"), to deal in the Software without restriction,
 including
              without limitation the rights to use, copy, modify, merge,
 publish,
              distribute, sublicense, and/or sell copies of the Software,
 and to
              permit persons to whom the Software is furnished to do so,
 subject to
              the following conditions:

              The above copyright notice and this permission notice shall be
              included in all copies or substantial portions of the
 Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND,
              EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
 WARRANTIES OF
              MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
              NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
              LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
 AN ACTION
              OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 CONNECTION
              WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 SOFTWARE.

            Name: qd
            Files: scipy/special/cephes/dd_*.[ch]
            License: modified BSD license ("BSD-LBNL-License.doc")
              This work was supported by the Director, Office of Science,
 Division
              of Mathematical, Information, and Computational Sciences of
 the
              U.S. Department of Energy under contract numbers DE-
AC03-76SF00098 and
              DE-AC02-05CH11231.

              Copyright (c) 2003-2009, The Regents of the University of
 California,
              through Lawrence Berkeley National Laboratory (subject to
 receipt of
              any required approvals from U.S. Dept. of Energy) All rights
 reserved.

              1. Redistribution and use in source and binary forms, with or
              without modification, are permitted provided that the
 following
```

```
              conditions are met:

              (1) Redistributions of source code must retain the copyright
              notice, this list of conditions and the following disclaimer.

              (2) Redistributions in binary form must reproduce the
copyright
              notice, this list of conditions and the following disclaimer
in
              the documentation and/or other materials provided with the
              distribution.

              (3) Neither the name of the University of California, Lawrence
              Berkeley National Laboratory, U.S. Dept. of Energy nor the
names
              of its contributors may be used to endorse or promote products
              derived from this software without specific prior written
              permission.

              2. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR
              A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT
              OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT
              LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE,
              DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY
              THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT
              (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

              3. You are under no obligation whatsoever to provide any bug
fixes,
              patches, or upgrades to the features, functionality or
performance of
              the source code ("Enhancements") to anyone; however, if you
choose to
              make your Enhancements available either publicly, or directly
to
              Lawrence Berkeley National Laboratory, without imposing a
separate
              written license agreement for such Enhancements, then you
hereby grant
              the following license: a non-exclusive, royalty-free perpetual
license
              to install, use, modify, prepare derivative works, incorporate
into
              other computer software, distribute, and sublicense such
enhancements
              or derivative works thereof, in binary and source code form.

           Name: pypocketfft
           Files: scipy/fft/_pocketfft/[pocketfft.h, pypocketfft.cxx]
```

```
            License: 3-Clause BSD
              For details, see scipy/fft/_pocketfft/LICENSE.md

            Name: uarray
            Files: scipy/_lib/uarray/*
            License: 3-Clause BSD
              For details, see scipy/_lib/uarray/LICENSE

            Name: ampgo
            Files: benchmarks/benchmarks/go_benchmark_functions/*.py
            License: MIT
              Functions for testing global optimizers, forked from the AMPGO
project,
              https://code.google.com/archive/p/ampgo

            Name: pybind11
            Files: no source files are included, however pybind11 binary
artifacts are
              included with every binary build of SciPy.
            License:
              Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All
rights reserved.

              Redistribution and use in source and binary forms, with or
without
              modification, are permitted provided that the following
conditions are met:

              1. Redistributions of source code must retain the above
copyright notice, this
                 list of conditions and the following disclaimer.

              2. Redistributions in binary form must reproduce the above
copyright notice,
                 this list of conditions and the following disclaimer in the
documentation
                 and/or other materials provided with the distribution.

              3. Neither the name of the copyright holder nor the names of
its contributors
                 may be used to endorse or promote products derived from
this software
                 without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND
              ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED
              WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
```

```
            Name: HiGHS
            Files: scipy/optimize/_highs/*
            License: MIT
              For details, see scipy/optimize/_highs/LICENCE

            Name: Boost
            Files: scipy/_lib/boost_math/*
            License: Boost Software License - Version 1.0
              For details, see scipy/_lib/boost_math/LICENSE.txt

            Name: Biasedurn
            Files: scipy/stats/biasedurn/*
            License 3-Clause BSD
              For details, see scipy/stats/biasedurn/license.txt

            Name: UNU.RAN
            Files: scipy/_lib/unuran/*
            License 3-Clause BSD
              For details, see scipy/_lib/unuran/license.txt

            Name: NumPy
            Files: scipy/stats/_rcont/[logfactorial.h,logfactorial.c]
            License 3-Clause BSD
              For details, see header inside scipy/stats/_rcont/
logfactorial.h
              and scipy/stats/_rcont/logfactorial.c

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------------------
            Name: Decorator
            License: 2-clause BSD
            Copyright (c) 2005-2015, Michele Simionato
            All rights reserved.

            Redistribution and use in source and binary forms, with or
 without
            modification, are permitted provided that the following
 conditions are
            met:

              Redistributions of source code must retain the above copyright
              notice, this list of conditions and the following disclaimer.
              Redistributions in bytecode form must reproduce the above
 copyright
              notice, this list of conditions and the following disclaimer
 in
              the documentation and/or other materials provided with the
              distribution.

            THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
            "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
            LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR
            A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
            HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
            INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
            BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 LOSS
```

```
            OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 CAUSED AND
            ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
            TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 OF THE
            USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
            DAMAGE.

            Name: ID
            Files: scipy/linalg/src/id_dist/*
            License: 3-clause BSD
            Copyright (c) 2014 by P.-G. Martinsson, V. Rokhlin,
            Y. Shkolnisky, and M. Tygert.

            All rights reserved.

            Redistribution and use in source and binary forms, with or
 without
            modification, are permitted provided that the following
 conditions are
            met:


            * Redistributions of source code must retain the above copyright
            notice, this list of conditions, and the following disclaimer.
            * Redistributions in binary form must reproduce the above
 copyright
            notice, this list of conditions, and the following disclaimer in
 the
            documentation and/or other materials provided with the
 distribution.
            * None of the names of the copyright holders may be used to
 endorse
            or promote products derived from this software without specific
 prior
            written permission.

            THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND
 ANY
            EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
            IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR
            PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNERS
 BE
            LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR
            CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF
            SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
            BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY,
            WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE OR
            OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
 EVEN IF
            ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

            Name: L-BFGS-B
            License: BSD license
             """
            L-BFGS-B is a limited-memory quasi-Newton code for bound-
constrained
```

```
            optimization, i.e. for problems where the only constraints are
of the
            form l<= x <= u.
            """

            This is a Python wrapper (using F2PY) written by David M. Cooke
            <cookedm@physics.mcmaster.ca> and released as version 0.9 on
April 9, 2004.
            The wrapper was slightly modified by Joonas Paalasmaa for the
3.0 version
            in March 2012.

            License of L-BFGS-B (Fortran code)
            ==================================

            The version included here (in lbfgsb.f) is 3.0 (released April
25, 2011). It was
            written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal
<nocedal@ece.nwu.edu>. It
            carries the following condition for use:

              """
              This software is freely available, but we expect that all
publications
              describing work using this software, or all commercial
products using it,
              quote at least one of the references given below. This
software is released
              under the BSD License.

              References
                * R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory
Algorithm for Bound
                  Constrained Optimization, (1995), SIAM Journal on
Scientific and
                  Statistical Computing, 16, 5, pp. 1190-1208.
                * C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm
778: L-BFGS-B,
                  FORTRAN routines for large scale bound constrained
optimization (1997),
                  ACM Transactions on Mathematical Software, 23, 4, pp. 550
- 560.
                * J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm
778: L-BFGS-B,
                  FORTRAN routines for large scale bound constrained
optimization (2011),
                  ACM Transactions on Mathematical Software, 38, 1.
              """

            The Python wrapper
            ==================

            This code uses F2PY (http://cens.ioc.ee/projects/f2py2e/) to
generate
            the wrapper around the Fortran code.

            The Python code and wrapper are copyrighted 2004 by David M.
Cooke
            <cookedm@physics.mcmaster.ca>.

            License for the Python wrapper
            ==============================

            Copyright (c) 2004 David M. Cooke <cookedm@physics.mcmaster.ca>
```

```
            Permission is hereby granted, free of charge, to any person
 obtaining a copy of
            this software and associated documentation files (the
 "Software"), to deal in
            the Software without restriction, including without limitation
 the rights to
            use, copy, modify, merge, publish, distribute, sublicense, and/
or sell copies
            of the Software, and to permit persons to whom the Software is
 furnished to do
            so, subject to the following conditions:

            The above copyright notice and this permission notice shall be
 included in all
            copies or substantial portions of the Software.

            THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR
            IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
            FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
            AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
            LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM,
            OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
            SOFTWARE.




            Name: SuperLU
            License: 3-clause BSD
            Copyright (c) 2003, The Regents of the University of California,
 through
            Lawrence Berkeley National Laboratory (subject to receipt of any
 required
            approvals from U.S. Dept. of Energy)

            All rights reserved.

            Redistribution and use in source and binary forms, with or
 without
            modification, are permitted provided that the following
 conditions are met:

            (1) Redistributions of source code must retain the above
 copyright notice,
            this list of conditions and the following disclaimer.
            (2) Redistributions in binary form must reproduce the above
 copyright notice,
            this list of conditions and the following disclaimer in the
 documentation
            and/or other materials provided with the distribution.
            (3) Neither the name of Lawrence Berkeley National Laboratory,
 U.S. Dept. of
            Energy nor the names of its contributors may be used to endorse
 or promote
            products derived from this software without specific prior
 written permission.
```

```
           THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS
           IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO,
           THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR
           PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
           CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL,
           EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO,
           PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR
           PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF
           LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING
           NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS
           SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

           Name: ARPACK
           License: 3-clause BSD
           Pertains to ARPACK and P_ARPACK

           Copyright (c) 1996-2008 Rice University.
           Developed by D.C. Sorensen, R.B. Lehoucq, C. Yang, and K.
Maschhoff.
           All rights reserved.

           Arpack has been renamed to arpack-ng.

           Copyright (c) 2001-2011 - Scilab Enterprises
           Updated by Allan Cornet, Sylvestre Ledru.

           Copyright (c) 2010 - Jordi Gutiérrez Hermoso (Octave patch)

           Copyright (c) 2007 - Sébastien Fabbro (gentoo patch)

           Redistribution and use in source and binary forms, with or
without
           modification, are permitted provided that the following
conditions are
           met:

           - Redistributions of source code must retain the above copyright
             notice, this list of conditions and the following disclaimer.

           - Redistributions in binary form must reproduce the above
copyright
             notice, this list of conditions and the following disclaimer
listed
             in this license in the documentation and/or other materials
             provided with the distribution.

           - Neither the name of the copyright holders nor the names of its
             contributors may be used to endorse or promote products
derived from
             this software without specific prior written permission.

           THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS
           "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT
```

```
            LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR
            A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT
            OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
            SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
            LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE,
            DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY
            THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT
            (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE
            OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

            Name: Qhull
            License: Qhull license (BSD-like)
                                Qhull, Copyright (c) 1993-2019

                                        C.B. Barber
                                       Arlington, MA

                                           and

                   The National Science and Technology Research Center for
                    Computation and Visualization of Geometric Structures
                                    (The Geometry Center)
                                  University of Minnesota

                                  email: qhull@qhull.org

            This software includes Qhull from C.B. Barber and The Geometry
Center.
            Qhull is copyrighted as noted above.  Qhull is free software and
may
            be obtained via http from www.qhull.org.  It may be freely
copied, modified,
            and redistributed under the following conditions:

            1. All copyright notices must remain intact in all files.

            2. A copy of this text file must be distributed along with any
copies
               of Qhull that you redistribute; this includes copies that you
have
               modified, or copies of programs or other software products
that
               include Qhull.

            3. If you modify Qhull, you must include a notice giving the
               name of the person performing the modification, the date of
               modification, and the reason for such modification.

            4. When distributing modified versions of Qhull, or other
software
               products that include Qhull, you must provide notice that the
original
               source code may be obtained as noted above.

            5. There is no warranty or other guarantee of fitness for Qhull,
it is
```

```
               provided solely "as is".  Bug reports or fixes may be sent
to
               qhull_bug@qhull.org; the authors may or may not act on them
as
               they desire.


           Name: pypocketfft
           License: 3-Clause BSD
           Copyright (C) 2010-2019 Max-Planck-Society
           All rights reserved.

           Redistribution and use in source and binary forms, with or
without modification,
           are permitted provided that the following conditions are met:

           * Redistributions of source code must retain the above copyright
notice, this
             list of conditions and the following disclaimer.
           * Redistributions in binary form must reproduce the above
copyright notice, this
             list of conditions and the following disclaimer in the
documentation and/or
             other materials provided with the distribution.
           * Neither the name of the copyright holder nor the names of its
contributors may
             be used to endorse or promote products derived from this
software without
             specific prior written permission.

           THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND
           ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED
           WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE
           DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR
           ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES
            (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES;
           LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON
           ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT
            (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE OF THIS
           SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

           Name: uarray
           License: 3-Clause BSD

           Copyright (c) 2018, Quansight-Labs
           All rights reserved.

           Redistribution and use in source and binary forms, with or
without
           modification, are permitted provided that the following
conditions are met:

           * Redistributions of source code must retain the above copyright
notice, this
             list of conditions and the following disclaimer.
```

```
           * Redistributions in binary form must reproduce the above
copyright notice,
             this list of conditions and the following disclaimer in the
documentation
             and/or other materials provided with the distribution.

           * Neither the name of the copyright holder nor the names of its
             contributors may be used to endorse or promote products
derived from
             this software without specific prior written permission.

           THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS"
           AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE
           IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE
           DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE
           FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
           DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR
           SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER
           CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY,
           OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE
           OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

           Name: ampgo
           Files: benchmarks/benchmarks/go_benchmark_functions/*.py
           License: MIT
           Copyright 2013 Andrea Gavana
           Author: <andrea.gavana@gmail.com>
           Modifications 2014 Andrew Nelson
           <andyfaff@gmail.com>
           Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files (the
“Software”), to deal in the Software without restriction, including without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, subject to the following
conditions:

           The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

           THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.



           Name: HiGHS
           License: MIT
           Copyright (c) 2022 HiGHS
```

```
           Permission is hereby granted, free of charge, to any person
obtaining a copy
           of this software and associated documentation files (the
"Software"), to deal
           in the Software without restriction, including without
limitation the rights
           to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell
           copies of the Software, and to permit persons to whom the
Software is
           furnished to do so, subject to the following conditions:

           The above copyright notice and this permission notice shall be
included in all
           copies or substantial portions of the Software.

           THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR
           IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY,
           FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
EVENT SHALL THE
           AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER
           LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM,
           OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE
           SOFTWARE.

           Name: Boost
           License: Boost Software License - Version 1.0
           Boost Software License - Version 1.0 - August 17th, 2003

           Permission is hereby granted, free of charge, to any person or
organization
           obtaining a copy of the software and accompanying documentation
covered by
           this license (the "Software") to use, reproduce, display,
distribute,
           execute, and transmit the Software, and to prepare derivative
works of the
           Software, and to permit third-parties to whom the Software is
furnished to
           do so, all subject to the following:

           The copyright notices in the Software and this entire statement,
including
           the above license grant, this restriction and the following
disclaimer,
           must be included in all copies of the Software, in whole or in
part, and
           all derivative works of the Software, unless such copies or
derivative
           works are solely in the form of machine-executable object code
generated by
           a source language processor.

           THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR
           IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY,
```

```
            FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN
NO EVENT
            SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE
BE LIABLE
            FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR
OTHERWISE,
            ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
USE OR OTHER
            DEALINGS IN THE SOFTWARE.

            Name: Biasedurn
            Files: scipy/stats/biasedurn/*
            License 3-Clause BSD
            ---------- Forwarded message ---------
            From: Agner Fog <agner@agner.org>
            Date: Wed, Jul 22, 2020 at 8:54 PM
            Subject: Re: Add BiasedUrn to SciPy?
            To: Matt Haberland <mhaberla@calpoly.edu>
            Cc: Warren Weckesser <warren.weckesser@gmail.com>

            Dear Matt The C++ code for these distributions without binding
to the R project
            are available here:
            https://www.agner.org/random/stocc.zip
            You have my permission to use it in SciPy under the new BSD
license.
            Best regards,
            Agner Fog

            On 22/07/2020 17.05, Matt Haberland wrote:
            Hi Agner, I'm a maintainer of the Python scientific computing
library SciPy,
            and I'm working on improving the capabilities of our statistics
subpackage
            scipy.stats. We'd like to add both Fisher's and Wallenius'
noncentral
            hypergeometric distributions, but these look quite challenging
to implement.
            We found your BiasedUrn package, and we'd love to wrap it, but
we can't
            include GPL-3 licensed code under our BSD-new license. Would you
consider
            re-licensing BiasedUrn under a more permissive license, such as
BSD-new or
            MIT, so we can include it in SciPy?
            Thank you for considering it!
            Matt
            --
            Matt Haberland
            Assistant Professor
            BioResource and Agricultural Engineering
            08A-3K, Cal Poly



            Name: UNU.RAN
            License 3-Clause BSD
            BSD 3-Clause License

            Copyright (c) 2018, Quansight-Labs
            All rights reserved.

            Redistribution and use in source and binary forms, with or
without
```

```
            modification, are permitted provided that the following
 conditions are met:

            * Redistributions of source code must retain the above copyright
 notice, this
              list of conditions and the following disclaimer.

            * Redistributions in binary form must reproduce the above
 copyright notice,
              this list of conditions and the following disclaimer in the
 documentation
              and/or other materials provided with the distribution.

            * Neither the name of the copyright holder nor the names of its
              contributors may be used to endorse or promote products
 derived from
              this software without specific prior written permission.

            THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
            AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
            IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
            DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
 CONTRIBUTORS BE LIABLE
            FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
            DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
            SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
            CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
            OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
            OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.

------------
 ---------------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------------
Name          sqlparse
License       BSD License
License Text  Copyright (c) 2016, Andi Albrecht <albrecht.andi@gmail.com>
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without modification,
              are permitted provided that the following conditions are met:

                  * Redistributions of source code must retain the above
 copyright notice,
                    this list of conditions and the following disclaimer.
                  * Redistributions in binary form must reproduce the above
 copyright notice,
                    this list of conditions and the following disclaimer in
 the documentation
                    and/or other materials provided with the distribution.
                  * Neither the name of the authors nor the names of its
 contributors may be
                    used to endorse or promote products derived from this
 software without
```

```
                    specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS" AND
              ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED
              WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE FOR
              ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 ---------------------------------------------------------------------------
------------  -----------------------------------
Name          packaging
License       Apache Software License; BSD License
License Text
------------  -----------------------------------
------------
 ---------------------------------------------------------------------------
Name          markdown
License       BSD License
License Text  Copyright 2007, 2008 The Python Markdown Project (v. 1.7 and
 later)
              Copyright 2004, 2005, 2006 Yuri Takhteyev (v. 0.2-1.6b)
              Copyright 2004 Manfred Stienstra (the original version)

              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:

              * Redistributions of source code must retain the above
 copyright
                notice, this list of conditions and the following
 disclaimer.
              * Redistributions in binary form must reproduce the above
 copyright
                notice, this list of conditions and the following disclaimer
 in the
                documentation and/or other materials provided with the
 distribution.
              * Neither the name of the Python Markdown Project nor the
                names of its contributors may be used to endorse or promote
 products
                derived from this software without specific prior written
 permission.

              THIS SOFTWARE IS PROVIDED BY THE PYTHON MARKDOWN PROJECT ''AS
 IS'' AND ANY
```

```
              EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE IMPLIED
              WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL ANY CONTRIBUTORS TO THE PYTHON
 MARKDOWN PROJECT
              BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR
              CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF
              SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS
              INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
              CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE)
              ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE
              POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------  -----------------------
Name          requests
License       Apache Software License
License Text
------------  -----------------------
------------
 ---------------------------------------------------------------------------
Name          greenlet
License       MIT License
License Text  The following files are derived from Stackless Python and are
 subject to the
              same license as Stackless Python:

               src/greenlet/slp_platformselect.h
               files in src/greenlet/platform/ directory

              See LICENSE.PSF and http://www.stackless.com/ for details.

              Unless otherwise noted, the files in greenlet have been
 released under the
              following MIT license:

              Copyright (c) Armin Rigo, Christian Tismer and contributors

              Permission is hereby granted, free of charge, to any person
 obtaining a copy
              of this software and associated documentation files (the
 "Software"), to deal
              in the Software without restriction, including without
 limitation the rights
              to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
              copies of the Software, and to permit persons to whom the
 Software is
              furnished to do so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in
              all copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
```

```
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN
              THE SOFTWARE.
------------
 ------------------------------------------------------------------------------
------------  -----------------------
Name          databricks-cli
License       Apache Software License
License Text
------------  -----------------------
------------
 ------------------------------------------------------------------------------
Name          oauthlib
License       BSD License
License Text  Copyright (c) 2019 The OAuthlib Community
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:

                  1. Redistributions of source code must retain the above
 copyright notice,
                     this list of conditions and the following disclaimer.

                  2. Redistributions in binary form must reproduce the above
 copyright
                     notice, this list of conditions and the following
 disclaimer in the
                     documentation and/or other materials provided with the
 distribution.

                  3. Neither the name of this project nor the names of its
 contributors may
                     be used to endorse or promote products derived from
 this software without
                     specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
```

```
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 ------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------
Name          numba
License       BSD License
License Text  Copyright (c) 2012, Anaconda, Inc.
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are
              met:

              Redistributions of source code must retain the above copyright
 notice,
              this list of conditions and the following disclaimer.

              Redistributions in binary form must reproduce the above
 copyright
              notice, this list of conditions and the following disclaimer
 in the
              documentation and/or other materials provided with the
 distribution.
              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR
              A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
              HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT
              LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
 OF USE,
              DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY
              THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT
              (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 ---------------------------------------------------------------------
------------  -----------------------
Name          docker
License       Apache Software License
License Text
------------  -----------------------
------------
 ---------------------------------------------------------------------
Name          flask
License       BSD License
License Text  Copyright 2010 Pallets
```

```
              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are
              met:

              1.  Redistributions of source code must retain the above
 copyright
                  notice, this list of conditions and the following
 disclaimer.

              2.  Redistributions in binary form must reproduce the above
 copyright
                  notice, this list of conditions and the following
 disclaimer in the
                  documentation and/or other materials provided with the
 distribution.

              3.  Neither the name of the copyright holder nor the names of
 its
                  contributors may be used to endorse or promote products
 derived from
                  this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR A
              PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
              HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED
              TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR
              PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
              LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
              NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
              SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------------
Name          urllib3
License       MIT License
License Text  MIT License

              Copyright (c) 2008-2020 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)

              Permission is hereby granted, free of charge, to any person
 obtaining a copy
              of this software and associated documentation files (the
 "Software"), to deal
              in the Software without restriction, including without
 limitation the rights
              to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
```

```
              copies of the Software, and to permit persons to whom the
 Software is
              furnished to do so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          sqlalchemy
License       MIT License
License Text  Copyright 2005-2023 SQLAlchemy authors and contributors <see
 AUTHORS file>.

              Permission is hereby granted, free of charge, to any person
 obtaining a copy of
              this software and associated documentation files (the
 "Software"), to deal in
              the Software without restriction, including without limitation
 the rights to
              use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies
              of the Software, and to permit persons to whom the Software is
 furnished to do
              so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          protobuf
```

```
License       3-Clause BSD License
License Text  Copyright (c) 2009-2021, Google LLC
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:

                  * Redistributions of source code must retain the above
 copyright
                    notice, this list of conditions and the following
 disclaimer.
                  * Redistributions in binary form must reproduce the above
 copyright
                    notice, this list of conditions and the following
 disclaimer in the
                    documentation and/or other materials provided with the
 distribution.
                  * Neither the name of Google LLC nor the names of any
 other
                    contributors may be used to endorse or promote products
                    derived from this software without specific prior
 written permission.

              THIS SOFTWARE IS PROVIDED BY GOOGLE INC. ``AS IS'' AND ANY
 EXPRESS OR IMPLIED
              WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF
              MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO
              EVENT SHALL GOOGLE LLC BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED TO,
              PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR PROFITS; OR
              BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY, WHETHER
              IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 OR OTHERWISE)
              ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE
              POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
```

```
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: extra-dll\libopenb*.dll
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
```

```
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
```

```
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
```

```
tempita

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------
dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

--------------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
```

```
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

--------------------------------------------------------------------------------
LICENSES_bundled in different directories:
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64
```

```
Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
```

```
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
```

```
Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

```
Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

-------------------------------------------------------------------------------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------

Name          querystring-parser
License       MIT License
License Text  Copyright 2011 Bernard Kobos

              Permission is hereby granted, free of charge, to any person
 obtaining a copy
              of this software and associated documentation files (the
 "Software"), to deal
              in the Software without restriction, including without
 limitation the rights
              to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
              copies of the Software, and to permit persons to whom the
 Software is
              furnished to do so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.
```

```
              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          threadpoolctl
License       BSD License
License Text  Copyright (c) 2019, threadpoolctl contributors

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:

                  * Redistributions of source code must retain the above
 copyright notice,
                    this list of conditions and the following disclaimer.
                  * Redistributions in binary form must reproduce the above
 copyright
                    notice, this list of conditions and the following
 disclaimer in the
                    documentation and/or other materials provided with the
 distribution.
                  * Neither the name of copyright holder nor the names of
 its contributors
                    may be used to endorse or promote products derived from
 this software
                    without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 ------------------------------------------------------------------------------
```

```
------------
 ------------------------------------------------------------------------------
Name          itsdangerous
License       BSD License
License Text  Copyright 2011 Pallets

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are
              met:

              1.  Redistributions of source code must retain the above
 copyright
                  notice, this list of conditions and the following
 disclaimer.

              2.  Redistributions in binary form must reproduce the above
 copyright
                  notice, this list of conditions and the following
 disclaimer in the
                  documentation and/or other materials provided with the
 distribution.

              3.  Neither the name of the copyright holder nor the names of
 its
                  contributors may be used to endorse or promote products
 derived from
                  this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR A
              PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
              HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT LIMITED
              TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR
              PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
              LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
              NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
              SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------
 ---------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          contourpy
License       BSD License
License Text  BSD 3-Clause License

              Copyright (c) 2021-2023, ContourPy Developers.
              All rights reserved.

              Redistribution and use in source and binary forms, with or
 without
```

```
              modification, are permitted provided that the following
 conditions are met:

              1. Redistributions of source code must retain the above
 copyright notice, this
                 list of conditions and the following disclaimer.

              2. Redistributions in binary form must reproduce the above
 copyright notice,
                 this list of conditions and the following disclaimer in the
 documentation
                 and/or other materials provided with the distribution.

              3. Neither the name of the copyright holder nor the names of
 its
                 contributors may be used to endorse or promote products
 derived from
                 this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
 CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
------------
 ------------------------------------------------------------------------------
------------  -----------------------
Name          pyarrow
License       Apache Software License
License Text
------------  -----------------------
------------
 ------------------------------------------------------------------------------
Name          sqlalchemy
License       MIT License
License Text  Copyright 2005-2023 SQLAlchemy authors and contributors <see
 AUTHORS file>.

              Permission is hereby granted, free of charge, to any person
 obtaining a copy of
              this software and associated documentation files (the
 "Software"), to deal in
              the Software without restriction, including without limitation
 the rights to
              use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies
              of the Software, and to permit persons to whom the Software is
 furnished to do
              so, subject to the following conditions:
```

```
              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
              SOFTWARE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          tqdm
License       MIT License; Mozilla Public License 2.0 (MPL 2.0)
License Text  `tqdm` is a product of collaborative work.
              Unless otherwise stated, all authors (see commit logs) retain
 copyright
              for their respective work, and release the work under the MIT
 licence
              (text below).

              Exceptions or notable authors are listed below
              in reverse chronological order:

              * files: *
                MPLv2.0 2015-2021 (c) Casper da Costa-Luis
                [casperdcl](https://github.com/casperdcl).
              * files: tqdm/_tqdm.py
                MIT 2016 (c) [PR #96] on behalf of Google Inc.
              * files: tqdm/_tqdm.py setup.py README.rst
 MANIFEST.in .gitignore
                MIT 2013 (c) Noam Yorav-Raphael, original author.

              [PR #96]: https://github.com/tqdm/tqdm/pull/96


              Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
              -----------------------------------------------

              This Source Code Form is subject to the terms of the
              Mozilla Public License, v. 2.0.
              If a copy of the MPL was not distributed with this project,
              You can obtain one at https://mozilla.org/MPL/2.0/.


              MIT License (MIT)
              -----------------

              Copyright (c) 2013 noamraph

              Permission is hereby granted, free of charge, to any person
 obtaining a copy of
              this software and associated documentation files (the
 "Software"), to deal in
```

```
              the Software without restriction, including without limitation
 the rights to
              use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of
              the Software, and to permit persons to whom the Software is
 furnished to do so,
              subject to the following conditions:

              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS
              FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
 SHALL THE AUTHORS OR
              COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER
              IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
 OF OR IN
              CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.
------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          websocket-client
License       GNU Lesser General Public License v2 or later (LGPLv2+)
License Text  GNU LESSER GENERAL PUBLIC LICENSE
                                     Version 2.1, February 1999

               Copyright (C) 1991, 1999 Free Software Foundation, Inc.
               51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
               Everyone is permitted to copy and distribute verbatim copies
               of this license document, but changing it is not allowed.

              [This is the first released version of the Lesser GPL.  It
 also counts
               as the successor of the GNU Library Public License, version
 2, hence
               the version number 2.1.]

                                            Preamble

                The licenses for most software are designed to take away
 your
              freedom to share and change it.  By contrast, the GNU General
 Public
              Licenses are intended to guarantee your freedom to share and
 change
              free software--to make sure the software is free for all its
 users.

                This license, the Lesser General Public License, applies to
 some
              specially designated software packages--typically libraries--
of the
              Free Software Foundation and other authors who decide to use
 it.  You
              can use it too, but we suggest you first think carefully about
 whether
```

```
              this license or the ordinary General Public License is the
better
              strategy to use in any particular case, based on the
explanations below.

                When we speak of free software, we are referring to freedom
of use,
              not price.  Our General Public Licenses are designed to make
sure that
              you have the freedom to distribute copies of free software
(and charge
              for this service if you wish); that you receive source code or
can get
              it if you want it; that you can change the software and use
pieces of
              it in new free programs; and that you are informed that you
can do
              these things.

                To protect your rights, we need to make restrictions that
forbid
              distributors to deny you these rights or to ask you to
surrender these
              rights.  These restrictions translate to certain
responsibilities for
              you if you distribute copies of the library or if you modify
it.

                For example, if you distribute copies of the library,
whether gratis
              or for a fee, you must give the recipients all the rights that
we gave
              you.  You must make sure that they, too, receive or can get
the source
              code.  If you link other code with the library, you must
provide
              complete object files to the recipients, so that they can
relink them
              with the library after making changes to the library and
recompiling
              it.  And you must show them these terms so they know their
rights.

                We protect your rights with a two-step method: (1) we
copyright the
              library, and (2) we offer you this license, which gives you
legal
              permission to copy, distribute and/or modify the library.

                To protect each distributor, we want to make it very clear
that
              there is no warranty for the free library.  Also, if the
library is
              modified by someone else and passed on, the recipients should
know
              that what they have is not the original version, so that the
original
              author's reputation will not be affected by problems that
might be
              introduced by others.


                Finally, software patents pose a constant threat to the
existence of
```

```
              any free program.  We wish to make sure that a company cannot
              effectively restrict the users of a free program by obtaining
a
              restrictive license from a patent holder.  Therefore, we
insist that
              any patent license obtained for a version of the library must
be
              consistent with the full freedom of use specified in this
license.

                Most GNU software, including some libraries, is covered by
the
              ordinary GNU General Public License.  This license, the GNU
Lesser
              General Public License, applies to certain designated
libraries, and
              is quite different from the ordinary General Public License.
We use
              this license for certain libraries in order to permit linking
those
              libraries into non-free programs.

                When a program is linked with a library, whether statically
or using
              a shared library, the combination of the two is legally
speaking a
              combined work, a derivative of the original library.  The
ordinary
              General Public License therefore permits such linking only if
the
              entire combination fits its criteria of freedom.  The Lesser
General
              Public License permits more lax criteria for linking other
code with
              the library.

                We call this license the "Lesser" General Public License
because it
              does Less to protect the user's freedom than the ordinary
General
              Public License.  It also provides other free software
developers Less
              of an advantage over competing non-free programs.  These
disadvantages
              are the reason we use the ordinary General Public License for
many
              libraries.  However, the Lesser license provides advantages in
certain
              special circumstances.

                For example, on rare occasions, there may be a special need
to
              encourage the widest possible use of a certain library, so
that it becomes
              a de-facto standard.  To achieve this, non-free programs must
be
              allowed to use the library.  A more frequent case is that a
free
              library does the same job as widely used non-free libraries.
In this
              case, there is little to gain by limiting the free library to
free
              software only, so we use the Lesser General Public License.
```

```
                In other cases, permission to use a particular library in
non-free
              programs enables a greater number of people to use a large
body of
              free software.  For example, permission to use the GNU C
Library in
              non-free programs enables many more people to use the whole
GNU
              operating system, as well as its variant, the GNU/Linux
operating
              system.

                Although the Lesser General Public License is Less
protective of the
              users' freedom, it does ensure that the user of a program that
is
              linked with the Library has the freedom and the wherewithal to
run
              that program using a modified version of the Library.

                The precise terms and conditions for copying, distribution
and
              modification follow.  Pay close attention to the difference
between a
              "work based on the library" and a "work that uses the
library".  The
              former contains code derived from the library, whereas the
latter must
              be combined with the library in order to run.


                                GNU LESSER GENERAL PUBLIC LICENSE
                 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND
MODIFICATION

                0. This License Agreement applies to any software library or
other
              program which contains a notice placed by the copyright holder
or
              other authorized party saying it may be distributed under the
terms of
              this Lesser General Public License (also called "this
License").
              Each licensee is addressed as "you".

                A "library" means a collection of software functions and/or
data
              prepared so as to be conveniently linked with application
programs
              (which use some of those functions and data) to form
executables.

                The "Library", below, refers to any such software library or
work
              which has been distributed under these terms.  A "work based
on the
              Library" means either the Library or any derivative work under
              copyright law: that is to say, a work containing the Library
or a
              portion of it, either verbatim or with modifications and/or
translated
              straightforwardly into another language.  (Hereinafter,
translation is
              included without limitation in the term "modification".)
```

```
                "Source code" for a work means the preferred form of the
work for
             making modifications to it.  For a library, complete source
code means
             all the source code for all modules it contains, plus any
associated
             interface definition files, plus the scripts used to control
compilation
             and installation of the library.

                Activities other than copying, distribution and modification
are not
             covered by this License; they are outside its scope.  The act
of
             running a program using the Library is not restricted, and
output from
             such a program is covered only if its contents constitute a
work based
             on the Library (independent of the use of the Library in a
tool for
             writing it).  Whether that is true depends on what the Library
does
             and what the program that uses the Library does.

                1. You may copy and distribute verbatim copies of the
Library's
             complete source code as you receive it, in any medium,
provided that
             you conspicuously and appropriately publish on each copy an
             appropriate copyright notice and disclaimer of warranty; keep
intact
             all the notices that refer to this License and to the absence
of any
             warranty; and distribute a copy of this License along with the
             Library.

                You may charge a fee for the physical act of transferring a
copy,
             and you may at your option offer warranty protection in
exchange for a
             fee.


                2. You may modify your copy or copies of the Library or any
portion
             of it, thus forming a work based on the Library, and copy and
             distribute such modifications or work under the terms of
Section 1
             above, provided that you also meet all of these conditions:

                 a) The modified work must itself be a software library.

                 b) You must cause the files modified to carry prominent
notices
                 stating that you changed the files and the date of any
change.

                 c) You must cause the whole of the work to be licensed at
no
                 charge to all third parties under the terms of this
License.
```

```
                  d) If a facility in the modified Library refers to a
function or a
                  table of data to be supplied by an application program
that uses
                  the facility, other than as an argument passed when the
facility
                  is invoked, then you must make a good faith effort to
ensure that,
                  in the event an application does not supply such function
or
                  table, the facility still operates, and performs whatever
part of
                  its purpose remains meaningful.

                  (For example, a function in a library to compute square
roots has
                  a purpose that is entirely well-defined independent of the
                  application.  Therefore, Subsection 2d requires that any
                  application-supplied function or table used by this
function must
                  be optional: if the application does not supply it, the
square
                  root function must still compute square roots.)

             These requirements apply to the modified work as a whole.  If
             identifiable sections of that work are not derived from the
Library,
             and can be reasonably considered independent and separate
works in
             themselves, then this License, and its terms, do not apply to
those
             sections when you distribute them as separate works.  But when
you
             distribute the same sections as part of a whole which is a
work based
             on the Library, the distribution of the whole must be on the
terms of
             this License, whose permissions for other licensees extend to
the
             entire whole, and thus to each and every part regardless of
who wrote
             it.

             Thus, it is not the intent of this section to claim rights or
contest
             your rights to work written entirely by you; rather, the
intent is to
             exercise the right to control the distribution of derivative
or
             collective works based on the Library.

             In addition, mere aggregation of another work not based on the
Library
             with the Library (or with a work based on the Library) on a
volume of
             a storage or distribution medium does not bring the other work
under
             the scope of this License.

               3. You may opt to apply the terms of the ordinary GNU
General Public
             License instead of this License to a given copy of the
Library.  To do
```

```
              this, you must alter all the notices that refer to this
License, so
              that they refer to the ordinary GNU General Public License,
version 2,
              instead of to this License.  (If a newer version than version
2 of the
              ordinary GNU General Public License has appeared, then you can
specify
              that version instead if you wish.)  Do not make any other
change in
              these notices.


                Once this change is made in a given copy, it is irreversible
for
              that copy, so the ordinary GNU General Public License applies
to all
              subsequent copies and derivative works made from that copy.

                This option is useful when you wish to copy part of the code
of
              the Library into a program that is not a library.

                4. You may copy and distribute the Library (or a portion or
              derivative of it, under Section 2) in object code or
executable form
              under the terms of Sections 1 and 2 above provided that you
accompany
              it with the complete corresponding machine-readable source
code, which
              must be distributed under the terms of Sections 1 and 2 above
on a
              medium customarily used for software interchange.

                If distribution of object code is made by offering access to
copy
              from a designated place, then offering equivalent access to
copy the
              source code from the same place satisfies the requirement to
              distribute the source code, even though third parties are not
              compelled to copy the source along with the object code.

                5. A program that contains no derivative of any portion of
the
              Library, but is designed to work with the Library by being
compiled or
              linked with it, is called a "work that uses the Library".
Such a
              work, in isolation, is not a derivative work of the Library,
and
              therefore falls outside the scope of this License.

                However, linking a "work that uses the Library" with the
Library
              creates an executable that is a derivative of the Library
(because it
              contains portions of the Library), rather than a "work that
uses the
              library".  The executable is therefore covered by this
License.
              Section 6 states terms for distribution of such executables.

                When a "work that uses the Library" uses material from a
header file
```

```
              that is part of the Library, the object code for the work may
be a
              derivative work of the Library even though the source code is
not.
              Whether this is true is especially significant if the work can
be
              linked without the Library, or if the work is itself a
library.  The
              threshold for this to be true is not precisely defined by law.

                If such an object file uses only numerical parameters, data
              structure layouts and accessors, and small macros and small
inline
              functions (ten lines or less in length), then the use of the
object
              file is unrestricted, regardless of whether it is legally a
derivative
              work.  (Executables containing this object code plus portions
of the
              Library will still fall under Section 6.)

                Otherwise, if the work is a derivative of the Library, you
may
              distribute the object code for the work under the terms of
Section 6.
              Any executables containing that work also fall under Section
6,
              whether or not they are linked directly with the Library
itself.


                6. As an exception to the Sections above, you may also
combine or
              link a "work that uses the Library" with the Library to
produce a
              work containing portions of the Library, and distribute that
work
              under terms of your choice, provided that the terms permit
              modification of the work for the customer's own use and
reverse
              engineering for debugging such modifications.

                You must give prominent notice with each copy of the work
that the
              Library is used in it and that the Library and its use are
covered by
              this License.  You must supply a copy of this License.  If the
work
              during execution displays copyright notices, you must include
the
              copyright notice for the Library among them, as well as a
reference
              directing the user to the copy of this License.  Also, you
must do one
              of these things:

                  a) Accompany the work with the complete corresponding
                  machine-readable source code for the Library including
whatever
                  changes were used in the work (which must be distributed
under
                  Sections 1 and 2 above); and, if the work is an executable
linked
```

```
                    with the Library, with the complete machine-readable "work
that
                    uses the Library", as object code and/or source code, so
that the
                    user can modify the Library and then relink to produce a
modified
                    executable containing the modified Library.  (It is
understood
                    that the user who changes the contents of definitions
files in the
                    Library will not necessarily be able to recompile the
application
                    to use the modified definitions.)

                    b) Use a suitable shared library mechanism for linking
with the
                    Library.  A suitable mechanism is one that (1) uses at run
time a
                    copy of the library already present on the user's computer
system,
                    rather than copying library functions into the executable,
and (2)
                    will operate properly with a modified version of the
library, if
                    the user installs one, as long as the modified version is
                    interface-compatible with the version that the work was
made with.

                    c) Accompany the work with a written offer, valid for at
                    least three years, to give the same user the materials
                    specified in Subsection 6a, above, for a charge no more
                    than the cost of performing this distribution.

                    d) If distribution of the work is made by offering access
to copy
                    from a designated place, offer equivalent access to copy
the above
                    specified materials from the same place.

                    e) Verify that the user has already received a copy of
these
                    materials or that you have already sent this user a copy.

                  For an executable, the required form of the "work that uses
the
                Library" must include any data and utility programs needed for
                reproducing the executable from it.  However, as a special
exception,
                the materials to be distributed need not include anything that
is
                normally distributed (in either source or binary form) with
the major
                components (compiler, kernel, and so on) of the operating
system on
                which the executable runs, unless that component itself
accompanies
                the executable.

                  It may happen that this requirement contradicts the license
                restrictions of other proprietary libraries that do not
normally
                accompany the operating system.  Such a contradiction means
you cannot
```

```
              use both them and the Library together in an executable that
you
              distribute.


                7. You may place library facilities that are a work based on
the
              Library side-by-side in a single library together with other
library
              facilities not covered by this License, and distribute such a
combined
              library, provided that the separate distribution of the work
based on
              the Library and of the other library facilities is otherwise
              permitted, and provided that you do these two things:

                  a) Accompany the combined library with a copy of the same
work
                  based on the Library, uncombined with any other library
                  facilities.  This must be distributed under the terms of
the
                  Sections above.

                  b) Give prominent notice with the combined library of the
fact
                  that part of it is a work based on the Library, and
explaining
                  where to find the accompanying uncombined form of the same
work.

                8. You may not copy, modify, sublicense, link with, or
distribute
              the Library except as expressly provided under this License.
Any
              attempt otherwise to copy, modify, sublicense, link with, or
              distribute the Library is void, and will automatically
terminate your
              rights under this License.  However, parties who have received
copies,
              or rights, from you under this License will not have their
licenses
              terminated so long as such parties remain in full compliance.

                9. You are not required to accept this License, since you
have not
              signed it.  However, nothing else grants you permission to
modify or
              distribute the Library or its derivative works.  These actions
are
              prohibited by law if you do not accept this License.
Therefore, by
              modifying or distributing the Library (or any work based on
the
              Library), you indicate your acceptance of this License to do
so, and
              all its terms and conditions for copying, distributing or
modifying
              the Library or works based on it.

                10. Each time you redistribute the Library (or any work
based on the
              Library), the recipient automatically receives a license from
the
```

```
              original licensor to copy, distribute, link with or modify the
Library
              subject to these terms and conditions.  You may not impose any
further
              restrictions on the recipients' exercise of the rights granted
herein.
              You are not responsible for enforcing compliance by third
parties with
              this License.


                11. If, as a consequence of a court judgment or allegation
of patent
              infringement or for any other reason (not limited to patent
issues),
              conditions are imposed on you (whether by court order,
agreement or
              otherwise) that contradict the conditions of this License,
they do not
              excuse you from the conditions of this License.  If you cannot
              distribute so as to satisfy simultaneously your obligations
under this
              License and any other pertinent obligations, then as a
consequence you
              may not distribute the Library at all.  For example, if a
patent
              license would not permit royalty-free redistribution of the
Library by
              all those who receive copies directly or indirectly through
you, then
              the only way you could satisfy both it and this License would
be to
              refrain entirely from distribution of the Library.

              If any portion of this section is held invalid or
unenforceable under any
              particular circumstance, the balance of the section is
intended to apply,
              and the section as a whole is intended to apply in other
circumstances.

              It is not the purpose of this section to induce you to
infringe any
              patents or other property right claims or to contest validity
of any
              such claims; this section has the sole purpose of protecting
the
              integrity of the free software distribution system which is
              implemented by public license practices.  Many people have
made
              generous contributions to the wide range of software
distributed
              through that system in reliance on consistent application of
that
              system; it is up to the author/donor to decide if he or she is
willing
              to distribute software through any other system and a licensee
cannot
              impose that choice.

              This section is intended to make thoroughly clear what is
believed to
              be a consequence of the rest of this License.
```

```
                12. If the distribution and/or use of the Library is
restricted in
              certain countries either by patents or by copyrighted
interfaces, the
              original copyright holder who places the Library under this
License may add
              an explicit geographical distribution limitation excluding
those countries,
              so that distribution is permitted only in or among countries
not thus
              excluded.  In such case, this License incorporates the
limitation as if
              written in the body of this License.

                13. The Free Software Foundation may publish revised and/or
new
              versions of the Lesser General Public License from time to
time.
              Such new versions will be similar in spirit to the present
version,
              but may differ in detail to address new problems or concerns.

              Each version is given a distinguishing version number.  If the
Library
              specifies a version number of this License which applies to it
and
              "any later version", you have the option of following the
terms and
              conditions either of that version or of any later version
published by
              the Free Software Foundation.  If the Library does not specify
a
              license version number, you may choose any version ever
published by
              the Free Software Foundation.


                14. If you wish to incorporate parts of the Library into
other free
              programs whose distribution conditions are incompatible with
these,
              write to the author to ask for permission.  For software which
is
              copyrighted by the Free Software Foundation, write to the Free
              Software Foundation; we sometimes make exceptions for this.
Our
              decision will be guided by the two goals of preserving the
free status
              of all derivatives of our free software and of promoting the
sharing
              and reuse of software generally.

                                             NO WARRANTY

                15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS
NO
              WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.
              EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS
AND/OR
              OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF
ANY
              KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED
TO, THE
```

```
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR
              PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
THE
              LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU
ASSUME
              THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

                16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED
TO IN
              WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY
MODIFY
              AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE
TO YOU
              FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
              CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO
USE THE
              LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA
BEING
              RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A
              FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE),
EVEN IF
              SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY
OF SUCH
              DAMAGES.

                                     END OF TERMS AND CONDITIONS


                        How to Apply These Terms to Your New Libraries

                If you develop a new library, and you want it to be of the
greatest
              possible use to the public, we recommend making it free
software that
              everyone can redistribute and change.  You can do so by
permitting
              redistribution under these terms (or, alternatively, under the
terms of the
              ordinary General Public License).

                To apply these terms, attach the following notices to the
library.  It is
              safest to attach them to the start of each source file to most
effectively
              convey the exclusion of warranty; and each file should have at
least the
              "copyright" line and a pointer to where the full notice is
found.

                  <one line to give the library's name and a brief idea of
what it does.>
                  Copyright (C) <year>  <name of author>

                  This library is free software; you can redistribute it
and/or
                  modify it under the terms of the GNU Lesser General Public
                  License as published by the Free Software Foundation;
either
                  version 2.1 of the License, or (at your option) any later
version.
```

```
                  This library is distributed in the hope that it will be
 useful,
                  but WITHOUT ANY WARRANTY; without even the implied
 warranty of
                  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See
 the GNU
                  Lesser General Public License for more details.

                  You should have received a copy of the GNU Lesser General
 Public
                  License along with this library; if not, write to the Free
 Software
                  Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
 MA  02110-1301  USA

             Also add information on how to contact you by electronic and
 paper mail.

             You should also get your employer (if you work as a
 programmer) or your
             school, if any, to sign a "copyright disclaimer" for the
 library, if
------------
 ---------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------------------
Name          pillow
License       Historical Permission Notice and Disclaimer (HPND)
License Text  The Python Imaging Library (PIL) is

                  Copyright © 1997-2011 by Secret Labs AB
                  Copyright © 1995-2011 by Fredrik Lundh

             Pillow is the friendly PIL fork. It is

                  Copyright © 2010-2023 by Alex Clark and contributors

             Like PIL, Pillow is licensed under the open source HPND
 License:

             By obtaining, using, and/or copying this software and/or its
 associated
             documentation, you agree that you have read, understood, and
 will comply
             with the following terms and conditions:

             Permission to use, copy, modify, and distribute this software
 and its
             associated documentation for any purpose and without fee is
 hereby granted,
             provided that the above copyright notice appears in all
 copies, and that
             both that copyright notice and this permission notice appear
 in supporting
             documentation, and that the name of Secret Labs AB or the
 author not be
             used in advertising or publicity pertaining to distribution of
 the software
             without specific, written prior permission.

             SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH
 REGARD TO THIS
             SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS.
```

```
              IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR
ANY SPECIAL,
              INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER
RESULTING FROM
              LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE
              OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH
THE USE OR
              PERFORMANCE OF THIS SOFTWARE.


              ----

              BROTLI

              Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.

              Permission is hereby granted, free of charge, to any person
obtaining a copy
              of this software and associated documentation files (the
"Software"), to deal
              in the Software without restriction, including without
limitation the rights
              to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell
              copies of the Software, and to permit persons to whom the
Software is
              furnished to do so, subject to the following conditions:

              The above copyright notice and this permission notice shall be
included in
              all copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO
EVENT SHALL THE
              AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER
              LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN
              THE SOFTWARE.


              ----

              BZIP2



--------------------------------------------------------------------------

              This program, "bzip2", the associated library "libbzip2", and
all
              documentation, are copyright (C) 1996-2019 Julian R Seward.
All
              rights reserved.

              Redistribution and use in source and binary forms, with or
without
```

```
             modification, are permitted provided that the following
conditions
             are met:

             1. Redistributions of source code must retain the above
copyright
                notice, this list of conditions and the following
disclaimer.

             2. The origin of this software must not be misrepresented; you
must
                not claim that you wrote the original software.  If you use
this
                software in a product, an acknowledgment in the product
                documentation would be appreciated but is not required.

             3. Altered source versions must be plainly marked as such, and
must
                not be misrepresented as being the original software.

             4. The name of the author may not be used to endorse or
promote
                products derived from this software without specific prior
written
                permission.

             THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY
EXPRESS
             OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED
             WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE
             ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY
             DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
             DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE
             GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
             INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
             WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
             NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS
             SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

             Julian Seward, jseward@acm.org
             bzip2/libbzip2 version 1.0.8 of 13 July 2019


--------------------------------------------------------------------------


             ----

             FREETYPE2

             The  FreeType 2  font  engine is  copyrighted  work and
cannot be  used
             legally  without a  software license.   In  order to  make
this  project
             usable  to a vast  majority of  developers, we  distribute it
under two
             mutually exclusive open-source licenses.
```

```
             This means  that *you* must choose  *one* of the  two licenses
described
             below, then obey  all its terms and conditions when  using
FreeType 2 in
             any of your projects or products.

               - The FreeType License, found in  the file `FTL.TXT', which
is similar
                 to the original BSD license *with* an advertising clause
that forces
                 you  to  explicitly cite  the  FreeType  project  in your
product's
                 documentation.  All  details are in the license  file.
This license
                 is  suited  to products  which  don't  use  the GNU
General  Public
                 License.

                 Note that  this license  is  compatible  to the  GNU
General  Public
                 License version 3, but not version 2.

               - The GNU General Public License version 2, found in
`GPLv2.TXT' (any
                 later version can be used  also), for programs which
already use the
                 GPL.  Note  that the  FTL is  incompatible  with  GPLv2
due  to  its
                 advertisement clause.

             The contributed BDF and PCF drivers  come with a license
similar to that
             of the X Window System.  It is compatible to the above two
licenses (see
             file src/bdf/README and  src/pcf/README).  The same holds  for
the files
             `fthash.c' and  `fthash.h'; their  code was  part of  the BDF
driver in
             earlier FreeType versions.

             The gzip module uses the zlib license (see src/gzip/zlib.h)
which too is
             compatible to the above two licenses.

             The MD5 checksum support (only used for debugging in
development builds)
             is in the public domain.


             ----

             HARFBUZZ

             HarfBuzz is licensed under the so-called "Old MIT" license.
Details follow.
             For parts of HarfBuzz that are licensed under different
licenses see individual
             files names COPYING in subdirectories where applicable.

             Copyright ©
2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020  Google, Inc.
             Copyright © 2018,2019,2020  Ebrahim Byagowi
             Copyright © 2019,2020  Facebook, Inc.
             Copyright © 2012  Mozilla Foundation
```

```
             Copyright © 2011  Codethink Limited
             Copyright © 2008,2010  Nokia Corporation and/or its
subsidiary(-ies)
             Copyright © 2009  Keith Stribley
             Copyright © 2009  Martin Hosken and SIL International
             Copyright © 2007  Chris Wilson
             Copyright © 2006  Behdad Esfahbod
             Copyright © 2005  David Turner
             Copyright © 2004,2007,2008,2009,2010  Red Hat, Inc.
             Copyright © 1998-2004  David Turner and Werner Lemberg

             For full copyright notices consult the individual files in the
package.


             Permission is hereby granted, without written agreement and
without
             license or royalty fees, to use, copy, modify, and distribute
this
             software and its documentation for any purpose, provided that
the
             above copyright notice and the following two paragraphs appear
in
             all copies of this software.

             IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY
FOR
             DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL
DAMAGES
             ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION,
EVEN
             IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH
             DAMAGE.

             THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES,
INCLUDING,
             BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND
             FITNESS FOR A PARTICULAR PURPOSE.  THE SOFTWARE PROVIDED
HEREUNDER IS
             ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO
OBLIGATION TO
             PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.


             ----

             LCMS2

             Little CMS
             Copyright (c) 1998-2020 Marti Maria Saguer

             Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, subject to the following
conditions:

             The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

```
             THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
 NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
 DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER DEALINGS IN THE SOFTWARE.


             ----

             LIBJPEG

             1. We don't promise that this software works.  (But if you
 find any bugs,
                please let us know!)
             2. You can use this software for whatever you want.  You don't
 have to pay us.
             3. You may not pretend that you wrote this software.  If you
 use it in a
                program, you must acknowledge somewhere in your
 documentation that
                you've used the IJG code.

             In legalese:

             The authors make NO WARRANTY or representation, either express
 or implied,
             with respect to this software, its quality, accuracy,
 merchantability, or
             fitness for a particular purpose.  This software is provided
 "AS IS", and you,
             its user, assume the entire risk as to its quality and
 accuracy.

             This software is copyright (C) 1991-2020, Thomas G. Lane,
 Guido Vollbeding.
             All Rights Reserved except as specified below.

             Permission is hereby granted to use, copy, modify, and
 distribute this
             software (or portions thereof) for any purpose, without fee,
 subject to these
             conditions:
             (1) If any part of the source code for this software is
 distributed, then this
             README file must be included, with this copyright and no-
warranty notice
             unaltered; and any additions, deletions, or changes to the
 original files
             must be clearly indicated in accompanying documentation.
             (2) If only executable code is distributed, then the
 accompanying
             documentation must state that "this software is based in part
 on the work of
             the Independent JPEG Group".
             (3) Permission for use of this software is granted only if the
 user accepts
             full responsibility for any undesirable consequences; the
 authors accept
             NO LIABILITY for damages of any kind.
```

```
             These conditions apply to any software derived from or based
on the IJG code,
             not just to the unmodified library.  If you use our work, you
ought to
             acknowledge us.

             Permission is NOT granted for the use of any IJG author's name
or company name
             in advertising or publicity relating to this software or
products derived from
             it.  This software may be referred to only as "the Independent
JPEG Group's
             software".

             We specifically permit and encourage the use of this software
as the basis of
             commercial products, provided that all warranty or liability
claims are
             assumed by the product vendor.


             ----

             LIBLZMA

             XZ Utils Licensing
             ==================

                 Different licenses apply to different files in this
package. Here
                 is a rough summary of which licenses apply to which parts
of this
                 package (but check the individual files to be sure!):

                   - liblzma is in the public domain.

                   - xz, xzdec, and lzmadec command line tools are in the
public
                     domain unless GNU getopt_long had to be compiled and
linked
                     in from the lib directory. The getopt_long code is
under
                     GNU LGPLv2.1+.

                   - The scripts to grep, diff, and view compressed files
have been
                     adapted from gzip. These scripts and their
documentation are
                     under GNU GPLv2+.

                   - All the documentation in the doc directory and most of
the
                     XZ Utils specific documentation files in other
directories
                     are in the public domain.

                   - Translated messages are in the public domain.

                   - The build system contains public domain files, and
files that
                     are under GNU GPLv2+ or GNU GPLv3+. None of these
files end up
                     in the binaries being built.
```

```
                    - Test files and test code in the tests directory, and
debugging
                      utilities in the debug directory are in the public
domain.

                    - The extra directory may contain public domain files,
and files
                      that are under various free software licenses.

                  You can do whatever you want with the files that have been
put into
                  the public domain. If you find public domain legally
problematic,
                  take the previous sentence as a license grant. If you
still find
                  the lack of copyright legally problematic, you have too
many
                  lawyers.

                  As usual, this software is provided "as is", without any
warranty.

                  If you copy significant amounts of public domain code from
XZ Utils
                  into your project, acknowledging this somewhere in your
software is
                  polite (especially if it is proprietary, non-free
software), but
                  naturally it is not legally required. Here is an example
of a good
                  notice to put into "about box" or into documentation:

                      This software includes code from XZ Utils <http://
tukaani.org/xz/>.

                  The following license texts are included in the following
files:
                    - COPYING.LGPLv2.1: GNU Lesser General Public License
version 2.1
                    - COPYING.GPLv2: GNU General Public License version 2
                    - COPYING.GPLv3: GNU General Public License version 3

                  Note that the toolchain (compiler, linker etc.) may add
some code
                  pieces that are copyrighted. Thus, it is possible that
e.g. liblzma
                  binary wouldn't actually be in the public domain in its
entirety
                  even though it contains no copyrighted code from the XZ
Utils source
                  package.

                  If you have questions, don't hesitate to ask the author(s)
for more
                  information.


              ----

              LIBPNG

              COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
              =========================================
```

```
               PNG Reference Library License version 2
               ---------------------------------------

                * Copyright (c) 1995-2019 The PNG Reference Library Authors.
                * Copyright (c) 2018-2019 Cosmin Truta.
                * Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-
Pehrson.
                * Copyright (c) 1996-1997 Andreas Dilger.
                * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

               The software is supplied "as is", without warranty of any
 kind,
               express or implied, including, without limitation, the
 warranties
               of merchantability, fitness for a particular purpose, title,
 and
               non-infringement.  In no event shall the Copyright owners, or
               anyone distributing the software, be liable for any damages or
               other liability, whether in contract, tort or otherwise,
 arising
               from, out of, or in connection with the software, or the use
 or
               other dealings in the software, even if advised of the
 possibility
               of such damage.

               Permission is hereby granted to use, copy, modify, and
 distribute
               this software, or portions hereof, for any purpose, without
 fee,
               subject to the following restrictions:

                1. The origin of this software must not be misrepresented;
 you
                   must not claim that you wrote the original software.  If
 you
                   use this software in a product, an acknowledgment in the
 product
                   documentation would be appreciated, but is not required.

                2. Altered source versions must be plainly marked as such,
 and must
                   not be misrepresented as being the original software.

                3. This Copyright notice may not be removed or altered from
 any
                   source or altered source distribution.


               PNG Reference Library License version 1 (for libpng 0.5
 through 1.6.35)

 ---------------------------------------------------------------------------

               libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15,
 2018 are
               Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-
Pehrson, are
               derived from libpng-1.0.6, and are distributed according to
 the same
               disclaimer and license as libpng-1.0.6 with the following
 individuals
               added to the list of Contributing Authors:
```

```
                    Simon-Pierre Cadieux
                    Eric S. Raymond
                    Mans Rullgard
                    Cosmin Truta
                    Gilles Vollant
                    James Yu
                    Mandar Sahastrabuddhe
                    Google Inc.
                    Vadim Barkov

                and with the following additions to the disclaimer:

                    There is no warranty against interference with your
 enjoyment of
                    the library or against infringement.  There is no warranty
 that our
                    efforts or the library will fulfill any of your particular
 purposes
                    or needs.  This library is provided with all faults, and
 the entire
                    risk of satisfactory quality, performance, accuracy, and
 effort is
                    with the user.

                Some files in the "contrib" directory and some configure-
generated
                files that are distributed with libpng have other copyright
 owners, and
                are released under other open source licenses.

                libpng versions 0.97, January 1998, through 1.0.6, March 20,
 2000, are
                Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived
 from
                libpng-0.96, and are distributed according to the same
 disclaimer and
                license as libpng-0.96, with the following individuals added
 to the
                list of Contributing Authors:

                    Tom Lane
                    Glenn Randers-Pehrson
                    Willem van Schaik

                libpng versions 0.89, June 1996, through 0.96, May 1997, are
                Copyright (c) 1996-1997 Andreas Dilger, are derived from
 libpng-0.88,
                and are distributed according to the same disclaimer and
 license as
                libpng-0.88, with the following individuals added to the list
 of
                Contributing Authors:

                    John Bowler
                    Kevin Bracey
                    Sam Bushell
                    Magnus Holmgren
                    Greg Roelofs
                    Tom Tanner

                Some files in the "scripts" directory have other copyright
 owners,
                but are released under this license.
```

```
              libpng versions 0.5, May 1995, through 0.88, January 1996, are
              Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

              For the purposes of this copyright and license, "Contributing
Authors"
              is defined as the following set of individuals:

                  Andreas Dilger
                  Dave Martindale
                  Guy Eric Schalnat
                  Paul Schmidt
                  Tim Wegner

              The PNG Reference Library is supplied "AS IS".  The
Contributing
              Authors and Group 42, Inc. disclaim all warranties, expressed
or
              implied, including, without limitation, the warranties of
              merchantability and of fitness for any purpose.  The
Contributing
              Authors and Group 42, Inc. assume no liability for direct,
indirect,
              incidental, special, exemplary, or consequential damages,
which may
              result from the use of the PNG Reference Library, even if
advised of
              the possibility of such damage.

              Permission is hereby granted to use, copy, modify, and
distribute this
              source code, or portions hereof, for any purpose, without fee,
subject
              to the following restrictions:

               1. The origin of this source code must not be misrepresented.

               2. Altered versions must be plainly marked as such and must
not
                  be misrepresented as being the original source.

               3. This Copyright notice may not be removed or altered from
any
                  source or altered source distribution.

              The Contributing Authors and Group 42, Inc. specifically
permit,
              without fee, and encourage the use of this source code as a
component
              to supporting the PNG file format in commercial products.  If
you use
              this source code in a product, acknowledgment is not required
but would
              be appreciated.


              ----

              LIBTIFF

              Copyright (c) 1988-1997 Sam Leffler
              Copyright (c) 1991-1997 Silicon Graphics, Inc.

              Permission to use, copy, modify, distribute, and sell this
software and
```

```
             its documentation for any purpose is hereby granted without
fee, provided
             that (i) the above copyright notices and this permission
notice appear in
             all copies of the software and related documentation, and (ii)
the names of
             Sam Leffler and Silicon Graphics may not be used in any
advertising or
             publicity relating to the software without the specific, prior
written
             permission of Sam Leffler and Silicon Graphics.

             THE SOFTWARE IS PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY
KIND,
             EXPRESS, IMPLIED OR OTHERWISE, INCLUDING WITHOUT LIMITATION,
ANY
             WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE.

             IN NO EVENT SHALL SAM LEFFLER OR SILICON GRAPHICS BE LIABLE
FOR
             ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF
ANY KIND,
             OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS,
             WHETHER OR NOT ADVISED OF THE POSSIBILITY OF DAMAGE, AND ON
ANY THEORY OF
             LIABILITY, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE
             OF THIS SOFTWARE.


             ----

             LIBWEBP

             Copyright (c) 2010, Google Inc. All rights reserved.

             Redistribution and use in source and binary forms, with or
without
             modification, are permitted provided that the following
conditions are
             met:

               * Redistributions of source code must retain the above
copyright
                 notice, this list of conditions and the following
disclaimer.

               * Redistributions in binary form must reproduce the above
copyright
                 notice, this list of conditions and the following
disclaimer in
                 the documentation and/or other materials provided with the
                 distribution.

               * Neither the name of Google nor the names of its
contributors may
                 be used to endorse or promote products derived from this
software
                 without specific prior written permission.

             THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS
```

```
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR
              A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT
              HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT
              LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE,
              DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY
              THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT
              (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.


              ----

              OPENJPEG

              *
               * The copyright in this software is being made available
under the 2-clauses
               * BSD License, included below. This software may be subject
to other third
               * party and contributor rights, including patent rights, and
no such rights
               * are granted under this license.
               *
               * Copyright (c) 2002-2014, Universite catholique de Louvain
(UCL), Belgium
               * Copyright (c) 2002-2014, Professor Benoit Macq
               * Copyright (c) 2003-2014, Antonin Descampe
               * Copyright (c) 2003-2009, Francois-Olivier Devaux
               * Copyright (c) 2005, Herve Drolon, FreeImage Team
               * Copyright (c) 2002-2003, Yannick Verschueren
               * Copyright (c) 2001-2003, David Janssens
               * Copyright (c) 2011-2012, Centre National d'Etudes Spatiales
(CNES), France
               * Copyright (c) 2012, CS Systemes d'Information, France
               *
               * All rights reserved.
               *
               * Redistribution and use in source and binary forms, with or
without
               * modification, are permitted provided that the following
conditions
               * are met:
               * 1. Redistributions of source code must retain the above
copyright
               *    notice, this list of conditions and the following
disclaimer.
               * 2. Redistributions in binary form must reproduce the above
copyright
               *    notice, this list of conditions and the following
disclaimer in the
               *    documentation and/or other materials provided with the
distribution.
```

```
              *
              * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS `AS IS'
              * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE
              * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE
              * ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE
              * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR
              * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF
              * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS
              * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN
              * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE)
              * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE
              * POSSIBILITY OF SUCH DAMAGE.
              */


             ----

             RAQM

             The MIT License (MIT)

             Copyright © 2015 Information Technology Authority (ITA)
<foss@ita.gov.om>
             Copyright © 2016 Khaled Hosny <khaledhosny@eglug.org>

             Permission is hereby granted, free of charge, to any person
obtaining a copy
             of this software and associated documentation files (the
"Software"), to deal
             in the Software without restriction, including without
limitation the rights
             to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell
             copies of the Software, and to permit persons to whom the
Software is
             furnished to do so, subject to the following conditions:

             The above copyright notice and this permission notice shall be
included in all
             copies or substantial portions of the Software.

             THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR
             IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY,
             FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
EVENT SHALL THE
             AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER
             LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM,
             OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE
             SOFTWARE.
```

```
             ----

             XAU

             Copyright 1988, 1993, 1994, 1998  The Open Group

             Permission to use, copy, modify, distribute, and sell this
software and its
             documentation for any purpose is hereby granted without fee,
provided that
             the above copyright notice appear in all copies and that both
that
             copyright notice and this permission notice appear in
supporting
             documentation.

             The above copyright notice and this permission notice shall be
included in
             all copies or substantial portions of the Software.

             THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR
             IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY,
             FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO
EVENT SHALL THE
             OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN
             AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
OR IN
             CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

             Except as contained in this notice, the name of The Open Group
shall not be
             used in advertising or otherwise to promote the sale, use or
other dealings
             in this Software without prior written authorization from The
Open Group.


             ----

             XCB

             Copyright (C) 2001-2006 Bart Massey, Jamey Sharp, and Josh
Triplett.
             All Rights Reserved.

             Permission is hereby granted, free of charge, to any person
             obtaining a copy of this software and associated
             documentation files (the "Software"), to deal in the
             Software without restriction, including without limitation
             the rights to use, copy, modify, merge, publish, distribute,
             sublicense, and/or sell copies of the Software, and to
             permit persons to whom the Software is furnished to do so,
             subject to the following conditions:

             The above copyright notice and this permission notice shall
             be included in all copies or substantial portions of the
             Software.
```

```
              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
              KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
              WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
              PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
              BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
              IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
              OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
              OTHER DEALINGS IN THE SOFTWARE.

              Except as contained in this notice, the names of the authors
              or their institutions shall not be used in advertising or
              otherwise to promote the sale, use or other dealings in this
              Software without prior written authorization from the
              authors.


              ----

              XDMCP

              Copyright 1989, 1998  The Open Group

              Permission to use, copy, modify, distribute, and sell this
software and its
              documentation for any purpose is hereby granted without fee,
provided that
              the above copyright notice appear in all copies and that both
that
              copyright notice and this permission notice appear in
supporting
              documentation.

              The above copyright notice and this permission notice shall be
included in
              all copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY,
              FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO
EVENT SHALL THE
              OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN
              AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
OR IN
              CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

              Except as contained in this notice, the name of The Open Group
shall not be
              used in advertising or otherwise to promote the sale, use or
other dealings
              in this Software without prior written authorization from The
Open Group.

              Author:  Keith Packard, MIT X Consortium


              ----

              ZLIB

               (C) 1995-2017 Jean-loup Gailly and Mark Adler
```

```
                This software is provided 'as-is', without any express or
 implied
                warranty.  In no event will the authors be held liable for
 any damages
                arising from the use of this software.

                Permission is granted to anyone to use this software for any
 purpose,
                including commercial applications, and to alter it and
 redistribute it
                freely, subject to the following restrictions:

                1. The origin of this software must not be misrepresented;
 you must not
                   claim that you wrote the original software. If you use
 this software
                   in a product, an acknowledgment in the product
 documentation would be
                   appreciated but is not required.
                2. Altered source versions must be plainly marked as such,
 and must not be
                   misrepresented as being the original software.
                3. This notice may not be removed or altered from any source
 distribution.

                Jean-loup Gailly        Mark Adler
                jloup@gzip.org          madler@alumni.caltech.edu

              If you use the zlib library in a product, we would appreciate
 *not* receiving
              lengthy legal documents to sign.  The sources are provided for
 free but without
              warranty of any kind.  The library has been entirely written
 by Jean-loup
              Gailly and Mark Adler; it does not include third-party code.

              If you redistribute modified sources, we would appreciate that
 you include in
              the file ChangeLog history information documenting your
 changes.  Please read
              the FAQ for more information on the distribution of modified
 source versions.
------------
 ---------------------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          six
License       MIT License
License Text  Copyright (c) 2010-2020 Benjamin Peterson

              Permission is hereby granted, free of charge, to any person
 obtaining a copy of
              this software and associated documentation files (the
 "Software"), to deal in
              the Software without restriction, including without limitation
 the rights to
              use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of
              the Software, and to permit persons to whom the Software is
 furnished to do so,
              subject to the following conditions:
```

```
              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS
              FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
 SHALL THE AUTHORS OR
              COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER
              IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
 OF OR IN
              CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.
------------
 ---------------------------------------------------------------------------------
```

Provider: Dave Cheney / Component(s): errors 0.8.1

```
Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Dave Cheney / Component(s): profile 1.6.0

```
=== Public License Template ===
github.com/pkg/profile
-------- Copyrights
Copyright (c) 2013 Dave Cheney. All rights reserved.

-------- License
Copyright (c) 2013 Dave Cheney. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependencies Summary
github.com/pkg/profile

-------- License used by Dependencies
Copyright (c) 2013 Dave Cheney. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=== ATTRIBUTION-HELPER-GENERATED:
=== Attribution helper version: {Major:0 Minor:11 GitVersion:0.10.0-51-
g062e3964-dirty
GitCommit:062e3964c5761de4ac8015d8019bb8814d4a12fd GitTreeState:dirty
 BuildDate:2022-08-19T20:24:46Z
GoVersion:go1.18.3 Compiler:gc Platform:darwin/amd64}
=== License file based on go.mod with md5 sum:
 fae0633972160ffb3b4cbaef6a69de32
```

Provider: Dave Collins / Component(s): go-spew 1.1.1

```
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```

Provider: Dave Snider / Component(s): sphinx-rtd-theme 0.4.2

```
sphinx-rtd-theme 0.4.2

COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013-2018 Dave Snider, Read the Docs, Inc. & contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


/fonts/RobotoSlab/*


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
```

```
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

sphinx_rtd_theme/static/fonts/Lato/*

Copyright (c) 2010-2015, Łukasz Dziedzic (dziedzic@typoland.com),
with Reserved Font Name Lato.

This Font Software is licensed under the SIL Open Font License, Version 1.1.
This license is copied below, and is also available with a FAQ at:
http://scripts.sil.org/OFL


-----------------------------------------------------------
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007
-----------------------------------------------------------

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide
development of collaborative font projects, to support the font creation
efforts of academic and linguistic communities, and to provide a free and
open framework in which fonts may be shared and improved in partnership
with others.

The OFL allows the licensed fonts to be used, studied, modified and
redistributed freely as long as they are not sold by themselves. The
fonts, including any derivative works, can be bundled, embedded,
redistributed and/or sold with any software provided that any reserved
names are not used by derivative works. The fonts and derivatives,
however, cannot be released under any other type of license. The
requirement for fonts to remain under this license does not apply
to any document created using the fonts or their derivatives.

DEFINITIONS
"Font Software" refers to the set of files released by the Copyright
Holder(s) under this license and clearly marked as such. This may
include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the
copyright statement(s).

"Original Version" refers to the collection of Font Software components as
distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting,
or substituting -- in part or in whole -- any of the components of the
Original Version, by changing formats or by porting the Font Software to a
new environment.

"Author" refers to any designer, engineer, programmer, technical
writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining
a copy of the Font Software, to use, study, copy, merge, embed, modify,
redistribute, and sell modified and unmodified copies of the Font
Software, subject to the following conditions:

1) Neither the Font Software nor any of its individual components,
in Original or Modified Versions, may be sold by itself.
```

```
2) Original or Modified Versions of the Font Software may be bundled,
redistributed and/or sold with any software, provided that each copy
contains the above copyright notice and this license. These can be
included either as stand-alone text files, human-readable headers or
in the appropriate machine-readable metadata fields within text or
binary files as long as those fields can be easily viewed by the user.

3) No Modified Version of the Font Software may use the Reserved Font
Name(s) unless explicit written permission is granted by the corresponding
Copyright Holder. This restriction only applies to the primary font name as
presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font
Software shall not be used to promote, endorse or advertise any
Modified Version, except to acknowledge the contribution(s) of the
Copyright Holder(s) and the Author(s) or with their explicit written
permission.

5) The Font Software, modified or unmodified, in part or in whole,
must be distributed entirely under this license, and must not be
distributed under any other license. The requirement for fonts to
remain under this license does not apply to any document created
using the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are
not met.

DISCLAIMER
THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE
COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL
DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM
OTHER DEALINGS IN THE FONT SOFTWARE.
---------separator---------
Babel@2.6.0 (BSD)
Copyright (c) 2013-2018 by the Babel Team, see AUTHORS for more information.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.
 3. The name of the author may not be used to endorse or promote
    products derived from this software without specific prior
    written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
```

```
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------separator---------
Jinja2@2.10 (BSD)
Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------separator---------
MarkupSafe@1.0 (BSD)
Copyright © 2010 by the Pallets team.

Some rights reserved.

Redistribution and use in source and binary forms of the software as
well as documentation, with or without modification, are permitted
provided that the following conditions are met:

*   Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

*   Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

*   Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
```

```
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
---------separator---------
Pygments@2.2.0 (BSD License)
Copyright (c) 2006-2017 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------separator---------
Sphinx@1.8.1 (BSD)
License for Sphinx
==================

Copyright (c) 2007-2018 by the Sphinx team (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
Licenses for incorporated software
==================================

The included smartypants module, included as sphinx.util.smartypants,
is available under the following license:

-----------------------------------------------------------------------
SmartyPants_ license::

    Copyright (c) 2003 John Gruber
    (https://daringfireball.net/projects/smartypants/)
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    *   Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

    *   Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the following
        disclaimer in the documentation and/or other materials
        provided with the distribution.

    *   Neither the name "SmartyPants" nor the names of its
        contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

    This software is provided by the copyright holders and
    contributors "as is" and any express or implied warranties,
    including, but not limited to, the implied warranties of
    merchantability and fitness for a particular purpose are
    disclaimed. In no event shall the copyright owner or contributors
    be liable for any direct, indirect, incidental, special,
    exemplary, or consequential damages (including, but not limited
    to, procurement of substitute goods or services; loss of use,
    data, or profits; or business interruption) however caused and on
    any theory of liability, whether in contract, strict liability, or
    tort (including negligence or otherwise) arising in any way out of
    the use of this software, even if advised of the possibility of
    such damage.


smartypants.py license::

    smartypants.py is a derivative work of SmartyPants.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    *   Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

    *   Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the following
        disclaimer in the documentation and/or other materials
        provided with the distribution.

    This software is provided by the copyright holders and
```

```
    contributors "as is" and any express or implied warranties,
    including, but not limited to, the implied warranties of
    merchantability and fitness for a particular purpose are
    disclaimed. In no event shall the copyright owner or contributors
    be liable for any direct, indirect, incidental, special,
    exemplary, or consequential damages (including, but not limited
    to, procurement of substitute goods or services; loss of use,
    data, or profits; or business interruption) however caused and on
    any theory of liability, whether in contract, strict liability, or
    tort (including negligence or otherwise) arising in any way out of
    the use of this software, even if advised of the possibility of
    such damage.
---------------------------------------------------------------------

The included JQuery JavaScript library is available under the MIT
license:

---------------------------------------------------------------------
Copyright (c) 2008 John Resig, https://jquery.com/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
---------------------------------------------------------------------

The included Underscore JavaScript library is available under the MIT
license:

---------------------------------------------------------------------
Copyright (c) 2009 Jeremy Ashkenas, DocumentCloud

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
```

```
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

The included implementation of
 NumpyDocstring._parse_numpydoc_see_also_section
was derived from code under the following license:

--------------------------------------------------------------------------------

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli
 Virtanen <pav@iki.fi>

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

---------separator---------
alabaster@0.7.12 (BSD-3-Clause)
Copyright (c) 2018 Jeff Forcier.

Based on original work copyright (c) 2011 Kenneth Reitz and copyright (c)
 2010
Armin Ronacher.

Some rights reserved.

Redistribution and use in source and binary forms of the theme, with or
without modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.
```

```
THIS THEME IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS THEME, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
---------separator---------
docutils@0.14 (public domain, Python, 2-Clause BSD, GPL 3 (see COPYING.txt))
==================
 Copying Docutils
==================

:Author: David Goodger
:Contact: goodger@python.org
:Date: $Date$
:Web site: http://docutils.sourceforge.net/
:Copyright: This document has been placed in the public domain.

Most of the files included in this project have been placed in the
public domain, and therefore have no license requirements and no
restrictions on copying or usage; see the `Public Domain Dedication`_
below.  There are a few exceptions_, listed below.
Files in the Sandbox_ are not distributed with Docutils releases and
may have different license terms.


Public Domain Dedication
========================

The persons who have associated their work with this project (the
"Dedicator": David Goodger and the many contributors to the Docutils
project) hereby dedicate the entire copyright, less the exceptions_
listed below, in the work of authorship known as "Docutils" identified
below (the "Work") to the public domain.

The primary repository for the Work is the Internet World Wide Web
site <http://docutils.sourceforge.net/>.  The Work consists of the
files within the "docutils" module of the Docutils project Subversion
repository (Internet host docutils.svn.sourceforge.net, filesystem path
/svnroot/docutils), whose Internet web interface is located at
<http://docutils.svn.sourceforge.net/viewvc/docutils/>.  Files dedicated to
 the
public domain may be identified by the inclusion, near the beginning
of each file, of a declaration of the form::

    Copyright: This document/module/DTD/stylesheet/file/etc. has been
               placed in the public domain.

Dedicator makes this dedication for the benefit of the public at large
and to the detriment of Dedicator's heirs and successors.  Dedicator
intends this dedication to be an overt act of relinquishment in
perpetuity of all present and future rights under copyright law,
whether vested or contingent, in the Work.  Dedicator understands that
such relinquishment of all rights includes the relinquishment of all
rights to enforce (by lawsuit or otherwise) those copyrights in the
Work.

Dedicator recognizes that, once placed in the public domain, the Work
```

```
may be freely reproduced, distributed, transmitted, used, modified,
built upon, or otherwise exploited by anyone for any purpose,
commercial or non-commercial, and in any way, including by methods
that have not yet been invented or conceived.

(This dedication is derived from the text of the `Creative Commons
Public Domain Dedication`. [#]_)

.. [#] Creative Commons has `retired this legal tool`__ and does not
   recommend that it be applied to works: This tool is based on United
   States law and may not be applicable outside the US. For dedicating new
   works to the public domain, Creative Commons recommend the replacement
   Public Domain Dedication CC0_ (CC zero, "No Rights Reserved"). So does
   the Free Software Foundation in its license-list_.

   __  http://creativecommons.org/retiredlicenses
   .. _CC0: http://creativecommons.org/about/cc0

Exceptions
==========

The exceptions to the `Public Domain Dedication`_ above are:

* docutils/writers/s5_html/themes/default/iepngfix.htc:

      IE5.5+ PNG Alpha Fix v1.0 by Angus Turnbull
      <http://www.twinhelix.com>.  Free usage permitted as long as
      this notice remains intact.

* docutils/utils/math/__init__.py,
  docutils/utils/math/latex2mathml.py,
  docutils/writers/xetex/__init__.py,
  docutils/writers/latex2e/docutils-05-compat.sty,
  docs/user/docutils-05-compat.sty.txt,
  docutils/utils/error_reporting.py,
  docutils/test/transforms/test_smartquotes.py:

  Copyright © Günter Milde.
  Released under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

* docutils/utils/smartquotes.py

  Copyright © 2011 Günter Milde,
  based on `SmartyPants`_ © 2003 John Gruber
  (released under a 3-Clause BSD license included in the file)
  and smartypants.py © 2004, 2007 Chad Miller.
  Released under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

  .. _SmartyPants: http://daringfireball.net/projects/smartypants/

* docutils/utils/math/math2html.py,
  docutils/writers/html4css1/math.css

  Copyright © Alex Fernández
  These files are part of eLyXer_, released under the `GNU
  General Public License`_ version 3 or later. The author relicensed
  them for Docutils under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

  .. _eLyXer: http://www.nongnu.org/elyxer/

* extras/roman.py, copyright by Mark Pilgrim, released under the
```

```
  `Python 2.1.1 license`_ (`local copy`__).

  __ licenses/python-2-1-1.txt

* tools/editors/emacs/rst.el, copyright by Free Software Foundation,
  Inc., released under the `GNU General Public License`_ version 3 or
  later (`local copy`__).

  __ licenses/gpl-3-0.txt

The `2-Clause BSD license`_ and the Python licenses are OSI-approved_
and GPL-compatible_.

Plaintext versions of all the linked-to licenses are provided in the
licenses_ directory.

.. _sandbox: http://docutils.sourceforge.net/sandbox/README.html
.. _licenses: licenses/
.. _Python 2.1.1 license: http://www.python.org/2.1.1/license.html
.. _GNU General Public License: http://www.gnu.org/copyleft/gpl.html
.. _2-Clause BSD license: http://www.spdx.org/licenses/BSD-2-Clause
.. _OSI-approved: http://opensource.org/licenses/
.. _license-list:
.. _GPL-compatible: http://www.gnu.org/licenses/license-list.html

---------separator---------
idna@2.7 (BSD-like)
License
-------

Copyright (c) 2013-2018, Kim Davies. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

#. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

#. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided with
   the distribution.

#. Neither the name of the copyright holder nor the names of the
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

#. THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY
   EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
   IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
   PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR
   CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
   USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
   DAMAGE.

Portions of the codec implementation and unit tests are derived from the
Python standard library, which carries the `Python Software Foundation
License <https://docs.python.org/2/license.html>`_:
```

```
   Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved

Portions of the unit tests are derived from the Unicode standard, which
is subject to the Unicode, Inc. License Agreement:

   Copyright (c) 1991-2014 Unicode, Inc. All rights reserved.
   Distributed under the Terms of Use in
   <http://www.unicode.org/copyright.html>.

   Permission is hereby granted, free of charge, to any person obtaining
   a copy of the Unicode data files and any associated documentation
   (the "Data Files") or Unicode software and any associated documentation
   (the "Software") to deal in the Data Files or Software
   without restriction, including without limitation the rights to use,
   copy, modify, merge, publish, distribute, and/or sell copies of
   the Data Files or Software, and to permit persons to whom the Data Files
   or Software are furnished to do so, provided that

   (a) this copyright and permission notice appear with all copies
   of the Data Files or Software,

   (b) this copyright and permission notice appear in associated
   documentation, and

   (c) there is clear notice in each modified Data File or in the Software
   as well as in the documentation associated with the Data File(s) or
   Software that the data or software has been modified.

   THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
   ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
   WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
   NONINFRINGEMENT OF THIRD PARTY RIGHTS.
   IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
   NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
   DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
   DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
   TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
   PERFORMANCE OF THE DATA FILES OR SOFTWARE.

   Except as contained in this notice, the name of a copyright holder
   shall not be used in advertising or otherwise to promote the sale,
   use or other dealings in these Data Files or Software without prior
   written authorization of the copyright holder.
---------separator---------
imagesize@1.1.0 (MIT)
Copyright © 2016 Yoshiki Shibukawa

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software
and associated documentation files (the “Software”), to deal in the Software
 without restriction,
including without limitation the rights to use, copy, modify, merge,
 publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial
portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT
```

```
NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
 PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
 DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
 IN CONNECTION WITH
THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
---------separator---------
packaging@18.0 (BSD or Apache License, Version 2.0)
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------separator---------
pyparsing@2.2.2 (MIT License)
Paul McGuire <ptmcg@users.sourceforge.net>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
---------separator---------
pytz@2018.5 (MIT)
Stuart Bishop <stuart@stuartbishop.net>

MIT license.

This code is also available as part of Zope 3 under the Zope Public License,
 Version 2.1 (ZPL).

I’m happy to relicense this code if necessary for inclusion in other open
 source projects.
---------separator---------
requests@2.19.1 (Apache 2.0)

Copyright 2018 Kenneth Reitz

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
---------separator---------
six@1.11.0 (MIT)
Copyright (c) 2010-2018 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
---------separator---------
snowballstemmer@1.2.1 (BSD)
Copyright (c) 2013, Yoshiki Shibukawa

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided
that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this list of conditions and
  the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions
  and the following disclaimer in the documentation and/or other materials
 provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT HOLDER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------separator---------
sphinxcontrib-websupport@1.1.0 (BSD)
Copyright (c) 2007-2018 by the Sphinx team
(see https://github.com/sphinx-doc/sphinx/blob/master/AUTHORS).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------separator---------
urllib3@1.23 (MIT)
Copyright 2008-2016 Andrey Petrov and contributors (see CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify, merge,
```

```
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.
---------separator---------
```

Provider: David Chelimsky et al. / Component(s): RSpec 3.2

```
https://github.com/rspec/rspec/blob/master/License.txt

Copyright (c) 2009 Chad Humphries, David Chelimsky
Copyright (c) 2006 David Chelimsky, The RSpec Development Team
Copyright (c) 2005 Steven Baker

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: David J. Bradshaw / Component(s): iframe-resizer 3.6.1

```
The MIT License (MIT)

Copyright (c) 2013-2015 David J. Bradshaw

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: David Nolen / Component(s): core.match 0.3.0-alpha4

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1. The following files are available in source code form under the Eclipse
 Public License at: http://www.oracle.com/technetwork/opensource/opensource-
code-1366576.html. (The EPL license is reproduced below).

2. All past Contributors to core.match disclaim all warranties and
 conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose. In addition, such
 Contributors are not liable for any damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.

3. Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4. {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5. {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement. Oracle is solely responsible for any representations and
 warranties contained therein.

Copyright © 2010-2014 David Nolen, Ambrose Bonnaire-Sergeant, Rich Hickey &
 contributors.

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT’S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:


a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
 b) in the case of each subsequent Contributor:

i)changes to the Program, and

ii)additions to the Program;
```

```
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor’s behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient’s responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:


a) it complies with the terms and conditions of this Agreement; and
```

```
b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:


a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor’s responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
```

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient’s patent(s), then such Recipient’s rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient’s rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient’s rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient’s obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under

```
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: David P. D. Moss / Component(s): netaddr 0.7.19

```
Here are the licenses applicable to the use of the netaddr library.

-------
netaddr
-------

COPYRIGHT AND LICENSE

Copyright (c) 2008 by David P. D. Moss. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of David P. D. Moss nor the names of contributors
  may be used to endorse or promote products derived from this
  software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Here are the copyright notices applicable to the netaddr library.

netaddr
Copyright (c) 2008 by David P. D. Moss. All rights reserved.

Released under the BSD license. See the LICENSE file for details.

IANA (Internet Assigned Numbers Authority)
netaddr is not sponsored nor endorsed by IANA.

Use of data from IANA (Internet Assigned Numbers Authority) is subject to
 copyright and is provided with prior written permission.
```

```
IANA data files included with netaddr are not modified in any way but are
 parsed and made available to end users through an API.

See README file and source code for URLs to latest copies of the relevant
 files.

IEEE (Institution of Electrical Engineers)
netaddr is not sponsored nor endorsed by the IEEE.

Use of data from the IEEE (Institute of Electrical and Electronics
 Engineers) is subject to copyright. See the following URL for details :-

http://www.ieee.org/web/publications/rights/legal.html

IEEE data files included with netaddr are not modified in any way but
 are parsed and made available to end users through an API. There is no
 guarantee that referenced files are not out of date.

See README file and source code for URLs to latest copies of the relevant
 files.
```

Provider: Denis Pushkarev / Component(s): core-js 3.22.5

```
Copyright (c) 2014-2022 Denis Pushkarev

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Dennis Vriend / Component(s): akka-persistence-jdbc 3.4.0

```
com.github.dnvriend:akka-persistence-jdbc:3.4.0
COPYRIGHT: Copyright 2016 Dennis Vriend
LICENSE: Apache 2.0


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS



-----------------
4P Dependencies:


com.typesafe.akka » akka-actor_2.12 2.5.13
com.typesafe.akka » akka-persistence_2.12 2.5.13
com.typesafe.akka » akka-protobuf_2.12 2.5.13
com.typesafe.akka » akka-persistence-query_2.12 2.5.13
com.typesafe.akka » akka-stream_2.12 2.5.13

COPYRIGHT: Copyright (C) 2018-2019 Lightbend Inc. <https://
www.lightbend.com>
LICENSE: Apache 2.0 https://github.com/akka/akka/blob/v2.5.13/LICENSE


---
com.typesafe » config 1.3.2
COPYRIGHT: Copyright (C) 2011-2015 Typesafe Inc. <http://typesafe.com>
LICENSE: Apache 2.0 https://github.com/lightbend/config/blob/v1.3.2/
LICENSE-2.0.txt
```

```
---
org.scala-lang.modules » scala-java8-compat_2.12 0.8.0
COPYRIGHT and LICENSE:
Copyright (c) 2002-2013 EPFL
Copyright (c) 2011-2013 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the EPFL nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
com.typesafe.slick » slick_2.12 3.2.3
com.typesafe.slick » slick-hikaricp_2.12 3.2.3
COPYRIGHT and LICENSE:
Copyright 2011-2016 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
```

```
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.



---
org.scala-lang » scala-library 2.12.6
COPYRIGHT and LICENSE:
This software includes projects with other licenses -- see `doc/LICENSE.md`.

Copyright (c) 2002-2018 EPFL
Copyright (c) 2011-2018 Lightbend, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
  * Neither the name of the EPFL nor the names of its contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Didip Kerabat / Component(s): tollbooth 4.0.0

```
tollbooth 4.0.0

The MIT License (MIT)

Copyright (c) 2015 Didip Kerabat

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


===================
4P Dependencies

go-cache 2.1.0
github.com/patrickmn/go-cache
COPYRIGHT and LICENSE:
Copyright (c) 2012-2017 Patrick Mylund Nielsen and the go-cache contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
golang.org/x/net version 1c05540f6879653db88113bc4a2b70aec4bd491f and
golang.org/x/text version b19bf474d317b857955b12035d2c5acb57ce8b01 and
golang.org/x/time version f51c12702a4d776e4c1fa9b0fabab841babae631

COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Django Software Foundation / Component(s): Django 1.11.13

```
Django

Copyright (c) Django Software Foundation and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. Neither the name of Django nor the names of its contributors may be
 used
       to endorse or promote products derived from this software without
       specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

pytz

Copyright (c) 2003-2005 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: Django Software Foundation / Component(s): Django 1.11.18

```
Django

Copyright (c) Django Software Foundation and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. Neither the name of Django nor the names of its contributors may be
 used
       to endorse or promote products derived from this software without
       specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

pytz

Copyright (c) 2003-2005 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: Dmitry Andrianov / Component(s): logstash-logback-encoder 5.3

```
logstash-logback-encoder v5.2
COPYRIGHT: (C) Dmitry Andrianov and individual contributors
LICENSE: Apache 2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
```

```
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
```

```
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



========================
4P Dependencies:

com.fasterxml.jackson.core » jackson-databind 2.9.6 (upgrade to 2.9.9)
COPYRIGHT:
```

```
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.

LICENSE: Apache 2.0

This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0
```

Provider: Docker Inc. / Component(s): Docker Machine 0.10.0

```
   Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
```

```
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
```

```
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2014 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License
```

Provider: Docker Inc. / Component(s): Docker SDK for Python 6.1.3

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2016 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


--------------------------------------------------------------------------------
FOURTH PARTY DEPENDENCIES LICENSES
--------------------------------------------------------------------------------

---------------------- requests - Apache v2
 --------------------------------------

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
```

```
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
```

```
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.


---------------------- packaging - BSD 2
 --------------------------------------

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------- websocket-client - Apache V2
 --------------------------------------


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
```

```
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2023 engn33r

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



---------------------- urllib3 - MIT -------------------------------------


MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------------------- certifi - MPL v2
 --------------------------------------

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
```

```
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $


---------------------- charset-normalizer - MIT
 --------------------------------------

MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---------------------- idna - BSD-3 --------------------------------------

BSD 3-Clause License

Copyright (c) 2013-2021, Kim Davies
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
```

```
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Docker Inc. / Component(s): go-connections
3ede32e2033de7505e6500d6c868c2b9ed9f169d

```
URL for License and Copyright Notice - https://github.com/docker/go-
connections/blob/5b7154ba2efe13ff86ae8830a9e7cb120b080d6e/LICENSE

Copyright 2015 Docker, Inc.

LICENSE NAME: APACHE 2.0

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
```

```
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
```

```
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work. To apply the
 Apache License to your work, attach the following boilerplate notice, with
 the fields enclosed by brackets "[]" replaced with your own identifying
 information. (Don't include the brackets!)  The text should be enclosed in
 the appropriate comment syntax for the file format. We also recommend that
 a file or class name and description of purpose be included on the same
 "printed page" as the copyright notice for easier identification within
 third-party archives.
```

```
Copyright 2015 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except in compliance with the License. You may obtain a copy
 of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.

-----------------------------------------------------------------

Note - The component has NO 4th party components.
```

Provider: Donald Becker, et al / Component(s): net-tools 2.0-0.22

```
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
```

```
Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
```

```
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.
```

```
4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
```

```
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.


Copyright (C) 19yy

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
```

```
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
```

Provider: dropwizard-bundles.io and Bazaarvoice, Inc. / Component(s): dropwizard-configurable-assets-bundle 1.3.5

```
------------------------------- Top-level license -------------------------
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

---------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY 1
ch.qos.logback:logback-access
ch.qos.logback:logback-classic
```

```
ch.qos.logback:logback-core

== License

Logback LICENSE
---------------

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.

== Copyright Notices

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.datatype:jackson-datatype-guava

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits
```

```
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
com.fasterxml.jackson.core:jackson-core

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.

---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
com.fasterxml.jackson.dataformat:jackson-dataformat-yaml

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
```

```
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson components are licensed under Apache (Software) License, version
 2.0,
as per accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 5
com.fasterxml.jackson.datatype:jackson-datatype-jdk8
com.fasterxml.jackson.datatype:jackson-datatype-jsr310

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson components are licensed under Apache (Software) License, version
 2.0,
as per accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 6
com.fasterxml.jackson.jaxrs:jackson-jaxrs-base
com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.
```

```
## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 7
com.fasterxml.jackson.module:jackson-module-blackbird
com.fasterxml.jackson.module:jackson-module-jaxb-annotations
com.fasterxml.jackson.module:jackson-module-parameter-names

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 8
com.fasterxml:classmate

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel
```

```
## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 9
com.github.ben-manes.caffeine:caffeine

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright 2015 Ben Manes. All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 10
com.google.errorprone:error_prone_annotations

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright 2015 The Error Prone Authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 11
com.google.guava:guava

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright (C) 2013 The Guava Authors
 *
```

```
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 12
com.helger:profiler
io.dropwizard.logback:logback-throttling-appender
io.dropwizard.metrics:metrics-annotation
io.dropwizard.metrics:metrics-core
io.dropwizard.metrics:metrics-healthchecks
io.dropwizard.metrics:metrics-jersey2
io.dropwizard.metrics:metrics-jetty10
io.dropwizard.metrics:metrics-jmx
io.dropwizard.metrics:metrics-json
io.dropwizard.metrics:metrics-jvm
io.dropwizard.metrics:metrics-logback
io.dropwizard.metrics:metrics-servlets
io.dropwizard:dropwizard-configuration
io.dropwizard:dropwizard-health
io.dropwizard:dropwizard-jackson
io.dropwizard:dropwizard-jersey
io.dropwizard:dropwizard-jetty
io.dropwizard:dropwizard-lifecycle
io.dropwizard:dropwizard-logging
io.dropwizard:dropwizard-metrics
io.dropwizard:dropwizard-request-logging
io.dropwizard:dropwizard-servlets
io.dropwizard:dropwizard-util
io.dropwizard:dropwizard-validation

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Dropwizard
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 13
jakarta.activation:jakarta.activation-api
jakarta.servlet:jakarta.servlet-api
jakarta.ws.rs:jakarta.ws.rs-api
jakarta.xml.bind:jakarta.xml.bind-api

== License
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
```

```
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
/*
 * Copyright (c) 1997, 2023 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0, which is available at
 * http://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */

---------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY 14
jakarta.annotation:jakarta.annotation-api

== License

Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.
```

```
"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
```

```
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
```

```
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.
```

```
7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.
```

```
The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
```

```
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
```

```
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
```

```
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY
```

```
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
```

```
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

== Copyright Notices
/*
 * Copyright (c) 2005, 2023 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */

---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 15
jakarta.inject:jakarta.inject-api

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright (C) 2009 The JSR-330 Expert Group
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

# Notices for Eclipse Jakarta Dependency Injection
```

```
This content is produced and maintained by the Eclipse Jakarta Dependency
 Injection project.

* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

None

--------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY 16
jakarta.validation:jakarta.validation-api

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Copyright @ 2019,2023 Eclipse Foundation.

# Notices for Eclipse Jakarta Validation

This content is produced and maintained by the Eclipse Jakarta Validation
project.

* Project home: https://projects.eclipse.org/projects/ee4j.validation

## Trademarks

 Jakarta Validation is a trademark of the Eclipse Foundation.
```

```
## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

* [The specification repository](https://github.com/jakartaee/validation-
spec)
* [The API repository](https://github.com/jakartaee/validation)
* [The TCK repository](https://github.com/jakartaee/validation-tck)

## Third-party Content

This project leverages the following third party content.

Test dependencies:

 * [TestNG](https://github.com/cbeust/testng) - Apache License 2.0
 * [JCommander](https://github.com/cbeust/jcommander) - Apache License 2.0
 * [SnakeYAML](https://bitbucket.org/asomov/snakeyaml/src) - Apache License
 2.0


--------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY 17
net.bytebuddy:byte-buddy

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY 18
net.sourceforge.argparse4j:argparse4j

== License
/*
 * Copyright (C) 2011-2021 The contributors: https://github.com/argparse4j/
argparse4j/graphs/contributors
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */

== Copyright Notices

/*
 * Copyright (C) 2015 Andrew January
 * Copyright (C) 2011 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
```

```
 */

/*
 * Licensed to the Apache Software Foundation (ASF) under one
 * or more contributor license agreements.  See the NOTICE file
 * distributed with this work for additional information
 * regarding copyright ownership.  The ASF licenses this file
 * to you under the Apache License, Version 2.0 (the
 * "License"); you may not use this file except in compliance
 * with the License.  You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing,
 * software distributed under the License is distributed on an
 * "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 * KIND, either express or implied.  See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 19
org.apache.commons:commons-lang3

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Apache Commons Lang
Copyright 2001-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 20
org.apache.commons:commons-text

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Apache Commons Text
Copyright 2014-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 21
org.checkerframework:checker-qual

== License
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY 22
org.eclipse.jetty.toolchain.setuid:jetty-setuid-java

== License
Eclipse Public License 1.0 and Apache 2.0

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
```

```
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.
```

```
Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
```

```
7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.

Apache 2.0 (Same as Top-level license)

== Copyright Notices
//
//  ==========================================================================
//  Copyright (c) 1995-2012 Mort Bay Consulting Pty. Ltd.
//  --------------------------------------------------------------------------
//  All rights reserved. This program and the accompanying materials
//  are made available under the terms of the Eclipse Public License v1.0
//  and Apache License v2.0 which accompanies this distribution.
//
//      The Eclipse Public License is available at
//      http://www.eclipse.org/legal/epl-v10.html
//
//      The Apache License v2.0 is available at
//      http://www.opensource.org/licenses/apache2.0.php
```

```
//
//  You may elect to redistribute this code under either of these licenses.
//  ==========================================================================
//
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 23
org.eclipse.jetty:jetty-http
org.eclipse.jetty:jetty-io
org.eclipse.jetty:jetty-security
org.eclipse.jetty:jetty-server
org.eclipse.jetty:jetty-servlet
org.eclipse.jetty:jetty-servlets
org.eclipse.jetty:jetty-util

== License
Eclipse Public License - v 2.0 OR Apache-2.0

== Copyright Notices
//
// ========================================================================
// Copyright (c) 1995 Mort Bay Consulting Pty Ltd and others.
//
// This program and the accompanying materials are made available under the
// terms of the Eclipse Public License v. 2.0 which is available at
// https://www.eclipse.org/legal/epl-2.0, or the Apache License, Version 2.0
// which is available at https://www.apache.org/licenses/LICENSE-2.0.
//
// SPDX-License-Identifier: EPL-2.0 OR Apache-2.0
// ========================================================================
//

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 24
org.glassfish.hk2.external:aopalliance-repackaged
org.glassfish.hk2:hk2-api
org.glassfish.hk2:hk2-locator
org.glassfish.hk2:hk2-utils
org.glassfish.hk2:osgi-resource-locator
org.glassfish.jersey.containers:jersey-container-servlet
org.glassfish.jersey.containers:jersey-container-servlet-core
org.glassfish.jersey.core:jersey-client
org.glassfish.jersey.core:jersey-common
org.glassfish.jersey.core:jersey-server
org.glassfish.jersey.ext:jersey-bean-validation
org.glassfish.jersey.ext:jersey-metainf-services
org.glassfish.jersey.inject:jersey-hk2
org.glassfish:jakarta.el

== License
Eclipse Public License 2.0 with secondary license GPL v2 with Classpath
 Exception

== Copyright Notices
/*
 * Copyright (c) 2014, 2018 Oracle and/or its affiliates. All rights
 reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
```

```
 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */

<!--

    Copyright (c) 2012, 2024 Oracle and/or its affiliates. All rights
 reserved.
    Copyright (c) 2018, 2019 Payara Foundation and/or its affiliates. All
 rights reserved.

    This program and the accompanying materials are made available under the
    terms of the Eclipse Public License v. 2.0, which is available at
    http://www.eclipse.org/legal/epl-2.0.

    This Source Code may also be made available under the following
 Secondary
    Licenses when the conditions for such availability set forth in the
    Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
    version 2 with the GNU Classpath Exception, which is available at
    https://www.gnu.org/software/classpath/license.html.

    SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

-->

# Notice for Jersey Core Common module
This content is produced and maintained by the Eclipse Jersey project.


* https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey
```

```
## Third-party Content

Google Guava Version 18.0
* License: Apache License, 2.0
* Copyright: (C) 2009 The Guava Authors

JSR-166 Extension - JEP 266
* License: Creative Commons 1.0 (CC0)
* No copyright
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/publicdomain/zero/1.0/

# Notice for Jersey Core Server module
This content is produced and maintained by the Eclipse Jersey project.

* https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

org.glassfish.jersey.server.internal.monitoring.core
* License: Apache License, 2.0
* Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
* Copyright 2010-2013 Coda Hale and Yammer, Inc.

org.objectweb.asm Version 9.7
* License: Modified BSD (https://asm.ow2.io/license.html)
* Copyright: (c) 2000-2011 INRIA, France Telecom. All rights reserved.

W3.org documents
* License: W3C License
* Copyright: Copyright (c) 1994-2001 World Wide Web Consortium,
 (Massachusetts Institute of Technology, Institut National de Recherche
```

```
 en Informatique et en Automatique, Keio University). All Rights Reserved.
 http://www.w3.org/Consortium/Legal/

# Notice for Jersey Bean Validation module
This content is produced and maintained by the Eclipse Jersey project.

* https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

Hibernate Validator CDI, 6.2.5.Final
* License: Apache License, 2.0
* Project: https://beanvalidation.org/
* Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

# Notices for Jakarta Expression Language

This content is produced and maintained by the Jakarta Expression Language
 project.

* Project home: https://projects.eclipse.org/projects/ee4j.el

## Trademarks

Jakarta Expression Language is a trademark of the Eclipse
Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.
```

```
## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/el-ri

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 25
org.hibernate.validator:hibernate-validator

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
Developer Certificate of Origin
Version 1.1

Copyright (C) 2004, 2006 The Linux Foundation and its contributors.
1 Letterman Drive
Suite D4700
San Francisco, CA, 94129

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.


Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I
    have the right to submit it under the open source license
    indicated in the file; or
```

```
(b) The contribution is based upon previous work that, to the best
    of my knowledge, is covered under an appropriate open source
    license and I have the right under that license to submit that
    work with modifications, whether created in whole or in part
    by me, under the same open source license (unless I am
    permitted to submit under a different license), as indicated
    in the file; or

(c) The contribution was provided directly to me by some other
    person who certified (a), (b) or (c) and I have not modified
    it.

(d) I understand and agree that this project and the contribution
    are public and that a record of the contribution (including all
    personal information I submit with it, including my sign-off) is
    maintained indefinitely and may be redistributed consistent with
    this project or the open source license(s) involved.

/*
 * Hibernate Validator, declare and validate application constraints
 *
 * License: Apache License, Version 2.0
 * See the license.txt file in the root directory or <http://www.apache.org/
licenses/LICENSE-2.0>.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 26
org.javassist:javassist

== License

MOZILLA PUBLIC LICENSE
Version 1.1

1. Definitions.

    1.0.1. "Commercial Use" means distribution or otherwise making the
 Covered Code available to a third party.

    1.1. ''Contributor'' means each entity that creates or contributes to
 the creation of Modifications.

    1.2. ''Contributor Version'' means the combination of the Original Code,
 prior Modifications used by a Contributor, and the Modifications made by
 that particular Contributor.

    1.3. ''Covered Code'' means the Original Code or Modifications or the
 combination of the Original Code and Modifications, in each case including
 portions thereof.

    1.4. ''Electronic Distribution Mechanism'' means a mechanism generally
 accepted in the software development community for the electronic transfer
 of data.

    1.5. ''Executable'' means Covered Code in any form other than Source
 Code.

    1.6. ''Initial Developer'' means the individual or entity identified as
 the Initial Developer in the Source Code notice required by Exhibit A.

    1.7. ''Larger Work'' means a work which combines Covered Code or
 portions thereof with code not governed by the terms of this License.
```

```
    1.8. ''License'' means this document.

    1.8.1. "Licensable" means having the right to grant, to the maximum
 extent possible, whether at the time of the initial grant or subsequently
 acquired, any and all of the rights conveyed herein.

    1.9. ''Modifications'' means any addition to or deletion from the
 substance or structure of either the Original Code or any previous
 Modifications. When Covered Code is released as a series of files, a
 Modification is:
        A. Any addition to or deletion from the contents of a file
 containing Original Code or previous Modifications.

        B. Any new file that contains any part of the Original Code or
 previous Modifications.

    1.10. ''Original Code'' means Source Code of computer software code
 which is described in the Source Code notice required by Exhibit A as
 Original Code, and which, at the time of its release under this License is
 not already Covered Code governed by this License.

    1.10.1. "Patent Claims" means any patent claim(s), now owned or
 hereafter acquired, including without limitation,  method, process, and
 apparatus claims, in any patent Licensable by grantor.

    1.11. ''Source Code'' means the preferred form of the Covered Code for
 making modifications to it, including all modules it contains, plus any
 associated interface definition files, scripts used to control compilation
 and installation of an Executable, or source code differential comparisons
 against either the Original Code or another well known, available Covered
 Code of the Contributor's choice. The Source Code can be in a compressed
 or archival form, provided the appropriate decompression or de-archiving
 software is widely available for no charge.

    1.12. "You'' (or "Your")  means an individual or a legal entity
 exercising rights under, and complying with all of the terms of, this
 License or a future version of this License issued under Section 6.1. For
 legal entities, "You'' includes any entity which controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 "control'' means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. Source Code License.

    2.1. The Initial Developer Grant.
    The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive license, subject to third party intellectual property claims:
        (a)  under intellectual property rights (other than patent or
 trademark) Licensable by Initial Developer to use, reproduce, modify,
 display, perform, sublicense and distribute the Original Code (or portions
 thereof) with or without Modifications, and/or as part of a Larger Work;
 and

        (b) under Patents Claims infringed by the making, using or selling
 of Original Code, to make, have made, use, practice, sell, and offer for
 sale, and/or otherwise dispose of the Original Code (or portions thereof).
        (c) the licenses granted in this Section 2.1(a) and (b) are
 effective on the date Initial Developer first distributes Original Code
 under the terms of this License.

        (d) Notwithstanding Section 2.1(b) above, no patent license is
 granted: 1) for code that You delete from the Original Code; 2) separate
```

```
from the Original Code;  or 3) for infringements caused by: i) the
modification of the Original Code or ii) the combination of the Original
Code with other software or devices.

   2.2. Contributor Grant.
   Subject to third party intellectual property claims, each Contributor
hereby grants You a world-wide, royalty-free, non-exclusive license

       (a)  under intellectual property rights (other than patent or
trademark) Licensable by Contributor, to use, reproduce, modify, display,
perform, sublicense and distribute the Modifications created by such
Contributor (or portions thereof) either on an unmodified basis, with other
Modifications, as Covered Code and/or as part of a Larger Work; and

       (b) under Patent Claims infringed by the making, using, or
selling of  Modifications made by that Contributor either alone and/or in
combination with its Contributor Version (or portions of such combination),
to make, use, sell, offer for sale, have made, and/or otherwise dispose of:
1) Modifications made by that Contributor (or portions thereof); and 2) the
combination of  Modifications made by that Contributor with its Contributor
Version (or portions of such combination).

       (c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective
on the date Contributor first makes Commercial Use of the Covered Code.

       (d)    Notwithstanding Section 2.2(b) above, no patent license is
granted: 1) for any code that Contributor has deleted from the Contributor
Version; 2)  separate from the Contributor Version;  3)  for infringements
caused by: i) third party modifications of Contributor Version or ii)  the
combination of Modifications made by that Contributor with other software
 (except as part of the Contributor Version) or other devices; or 4) under
Patent Claims infringed by Covered Code in the absence of Modifications
made by that Contributor.


3. Distribution Obligations.

   3.1. Application of License.
   The Modifications which You create or to which You contribute are
governed by the terms of this License, including without limitation Section
2.2. The Source Code version of Covered Code may be distributed only under
the terms of this License or a future version of this License released
under Section 6.1, and You must include a copy of this License with every
copy of the Source Code You distribute. You may not offer or impose any
terms on any Source Code version that alters or restricts the applicable
version of this License or the recipients' rights hereunder. However, You
may include an additional document offering the additional rights described
in Section 3.5.

   3.2. Availability of Source Code.
   Any Modification which You create or to which You contribute must
be made available in Source Code form under the terms of this License
either on the same media as an Executable version or via an accepted
Electronic Distribution Mechanism to anyone to whom you made an Executable
version available; and if made available via Electronic Distribution
Mechanism, must remain available for at least twelve (12) months after
the date it initially became available, or at least six (6) months after a
subsequent version of that particular Modification has been made available
to such recipients. You are responsible for ensuring that the Source Code
version remains available even if the Electronic Distribution Mechanism is
maintained by a third party.

   3.3. Description of Modifications.
```

```
   You must cause all Covered Code to which You contribute to contain
a file documenting the changes You made to create that Covered Code
and the date of any change. You must include a prominent statement that
the Modification is derived, directly or indirectly, from Original Code
provided by the Initial Developer and including the name of the Initial
Developer in (a) the Source Code, and (b) in any notice in an Executable
version or related documentation in which You describe the origin or
ownership of the Covered Code.

   3.4. Intellectual Property Matters
       (a) Third Party Claims.
       If Contributor has knowledge that a license under a third party's
intellectual property rights is required to exercise the rights granted
by such Contributor under Sections 2.1 or 2.2, Contributor must include a
text file with the Source Code distribution titled "LEGAL'' which describes
the claim and the party making the claim in sufficient detail that a
recipient will know whom to contact. If Contributor obtains such knowledge
after the Modification is made available as described in Section 3.2,
Contributor shall promptly modify the LEGAL file in all copies Contributor
makes available thereafter and shall take other steps (such as notifying
appropriate mailing lists or newsgroups) reasonably calculated to inform
those who received the Covered Code that new knowledge has been obtained.

       (b) Contributor APIs.
       If Contributor's Modifications include an application programming
interface and Contributor has knowledge of patent licenses which are
reasonably necessary to implement that API, Contributor must also include
this information in the LEGAL file.

             (c)    Representations.
       Contributor represents that, except as disclosed pursuant to Section
3.4(a) above, Contributor believes that Contributor's Modifications are
Contributor's original creation(s) and/or Contributor has sufficient rights
to grant the rights conveyed by this License.


   3.5. Required Notices.
   You must duplicate the notice in Exhibit A in each file of the Source
Code.  If it is not possible to put such notice in a particular Source Code
file due to its structure, then You must include such notice in a location
(such as a relevant directory) where a user would be likely to look for
such a notice.  If You created one or more Modification(s) You may add
your name as a Contributor to the notice described in Exhibit A.  You must
also duplicate this License in any documentation for the Source Code where
You describe recipients' rights or ownership rights relating to Covered
Code.  You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Code. However, You may do so only on Your own behalf, and not on behalf
of the Initial Developer or any Contributor. You must make it absolutely
clear than any such warranty, support, indemnity or liability obligation
is offered by You alone, and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of warranty, support, indemnity
or liability terms You offer.

   3.6. Distribution of Executable Versions.
   You may distribute Covered Code in Executable form only if the
requirements of Section 3.1-3.5 have been met for that Covered Code, and
if You include a notice stating that the Source Code version of the Covered
Code is available under the terms of this License, including a description
of how and where You have fulfilled the obligations of Section 3.2. The
notice must be conspicuously included in any notice in an Executable
version, related documentation or collateral in which You describe
recipients' rights relating to the Covered Code. You may distribute the
```

```
 Executable version of Covered Code or ownership rights under a license of
 Your choice, which may contain terms different from this License, provided
 that You are in compliance with the terms of this License and that the
 license for the Executable version does not attempt to limit or alter the
 recipient's rights in the Source Code version from the rights set forth in
 this License. If You distribute the Executable version under a different
 license You must make it absolutely clear that any terms which differ from
 this License are offered by You alone, not by the Initial Developer or any
 Contributor. You hereby agree to indemnify the Initial Developer and every
 Contributor for any liability incurred by the Initial Developer or such
 Contributor as a result of any such terms You offer.

    3.7. Larger Works.
    You may create a Larger Work by combining Covered Code with other code
 not governed by the terms of this License and distribute the Larger Work
 as a single product. In such a case, You must make sure the requirements of
 this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

    If it is impossible for You to comply with any of the terms of this
 License with respect to some or all of the Covered Code due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be included
 in the LEGAL file described in Section 3.4 and must be included with
 all distributions of the Source Code. Except to the extent prohibited by
 statute or regulation, such description must be sufficiently detailed for a
 recipient of ordinary skill to be able to understand it.

5. Application of this License.

    This License applies to code to which the Initial Developer has attached
 the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

    6.1. New Versions.
    Netscape Communications Corporation (''Netscape'') may publish revised
 and/or new versions of the License from time to time. Each version will be
 given a distinguishing version number.

    6.2. Effect of New Versions.
    Once Covered Code has been published under a particular version of
 the License, You may always continue to use it under the terms of that
 version. You may also choose to use such Covered Code under the terms of
 any subsequent version of the License published by Netscape. No one other
 than Netscape has the right to modify the terms applicable to Covered Code
 created under this License.

    6.3. Derivative Works.
    If You create or use a modified version of this License (which you may
 only do in order to apply it to code which is not already Covered Code
 governed by this License), You must (a) rename Your license so that the
 phrases ''Mozilla'', ''MOZILLAPL'', ''MOZPL'', ''Netscape'', "MPL", ''NPL''
 or any confusingly similar phrase do not appear in your license (except to
 note that your license differs from this License) and (b) otherwise make it
 clear that Your version of the license contains terms which differ from the
 Mozilla Public License and Netscape Public License. (Filling in the name of
 the Initial Developer, Original Code or Contributor in the notice described
 in Exhibit A shall not of themselves be deemed to be modifications of this
 License.)

7. DISCLAIMER OF WARRANTY.
```

```
   COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS'' BASIS,
 WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
 WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS,
 MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE
 RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH
 YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT
 THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
 NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
 CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE
 IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

   8.1.  This License and the rights granted hereunder will terminate
 automatically if You fail to comply with terms herein and fail to cure such
 breach within 30 days of becoming aware of the breach. All sublicenses to
 the Covered Code which are properly granted shall survive any termination
 of this License. Provisions which, by their nature, must remain in effect
 beyond the termination of this License shall survive.

   8.2.  If You initiate litigation by asserting a patent infringement
 claim (excluding declatory judgment actions) against Initial Developer or
 a Contributor (the Initial Developer or Contributor against whom You file
 such action is referred to as "Participant")  alleging that:

   (a)  such Participant's Contributor Version directly or indirectly
 infringes any patent, then any and all rights granted by such Participant
 to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days
 notice from Participant terminate prospectively, unless if within 60
 days after receipt of notice You either: (i)  agree in writing to pay
 Participant a mutually agreeable reasonable royalty for Your past and
 future use of Modifications made by such Participant, or (ii) withdraw
 Your litigation claim with respect to the Contributor Version against such
 Participant.  If within 60 days of notice, a reasonable royalty and payment
 arrangement are not mutually agreed upon in writing by the parties or the
 litigation claim is not withdrawn, the rights granted by Participant to You
 under Sections 2.1 and/or 2.2 automatically terminate at the expiration of
 the 60 day notice period specified above.

   (b)  any software, hardware, or device, other than such Participant's
 Contributor Version, directly or indirectly infringes any patent, then
 any rights granted to You by such Participant under Sections 2.1(b) and
 2.2(b) are revoked effective as of the date You first made, used, sold,
 distributed, or had made, Modifications made by that Participant.

   8.3.  If You assert a patent infringement claim against Participant
 alleging that such Participant's Contributor Version directly or indirectly
 infringes any patent where such claim is resolved (such as by license or
 settlement) prior to the initiation of patent infringement litigation,
 then the reasonable value of the licenses granted by such Participant under
 Sections 2.1 or 2.2 shall be taken into account in determining the amount
 or value of any payment or license.

   8.4.  In the event of termination under Sections 8.1 or 8.2 above,  all
 end user license agreements (excluding distributors and resellers) which
 have been validly granted by You or any distributor hereunder prior to
 termination shall survive termination.

9. LIMITATION OF LIABILITY.

   UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
 (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL
 DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE,
```

```
 OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY
 INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER
 INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE,
 COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES
 OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY
 OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY
 FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE
 EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT
 ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES,
 SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

    The Covered Code is a ''commercial item,'' as that term is defined in 48
 C.F.R. 2.101 (Oct. 1995), consisting of ''commercial computer software''
 and ''commercial computer software documentation,'' as such terms are used
 in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48
 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End
 Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

    This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. This License shall be governed by California law provisions
 (except to the extent applicable law, if any, provides otherwise),
 excluding its conflict-of-law provisions. With respect to disputes in
 which at least one party is a citizen of, or an entity chartered or
 registered to do business in the United States of America, any litigation
 relating to this License shall be subject to the jurisdiction of the
 Federal Courts of the Northern District of California, with venue lying
 in Santa Clara County, California, with the losing party responsible for
 costs, including without limitation, court costs and reasonable attorneys'
 fees and expenses. The application of the United Nations Convention on
 Contracts for the International Sale of Goods is expressly excluded. Any
 law or regulation which provides that the language of a contract shall be
 construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
 responsible for claims and damages arising, directly or indirectly, out
 of its utilization of rights under this License and You agree to work
 with Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

    Initial Developer may designate portions of the Covered Code as
 "Multiple-Licensed".  "Multiple-Licensed" means that the Initial Developer
 permits you to utilize portions of the Covered Code under Your choice
 of the MPL or the alternative licenses, if any, specified by the Initial
 Developer in the file described in Exhibit A.


EXHIBIT A -Mozilla Public License.

    The contents of this file are subject to the Mozilla Public License
 Version 1.1 (the "License"); you may not use this file except in compliance
 with the License. You may obtain a copy of the License at
    http://www.mozilla.org/MPL/
```

```
    Software distributed under the License is distributed on an "AS IS"
 basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
 License for the specific language governing rights and limitations under
 the License.

    The Original Code is Javassist.

    The Initial Developer of the Original Code is Shigeru Chiba. Portions
 created by the Initial Developer are
      Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

    Contributor(s): __Bill Burke, Jason T. Greene_______________.

    Alternatively, the contents of this software may be used under the terms
 of the GNU Lesser General Public License Version 2.1 or later (the "LGPL"),
 or the Apache License Version 2.0 (the "AL"), in which case the provisions
 of the LGPL or the AL are applicable instead of those above. If you wish to
 allow use of your version of this software only under the terms of either
 the LGPL or the AL, and not to allow others to use your version of this
 software under the terms of the MPL, indicate your decision by deleting
 the provisions above and replace them with the notice and other provisions
 required by the LGPL or the AL. If you do not delete the provisions above,
 a recipient may use your version of this software under the terms of any
 one of the MPL, the LGPL or the AL.

    If you obtain this software as part of JBoss, the contents of this
 software may be used under only the terms of the LGPL. To use them under
 the MPL, you must obtain a separate package including only Javassist but
 not the other part of JBoss.

    All the contributors to the original source tree have agreed to the
 original license term described above.

== Copyright Notices
/*
 * Javassist, a Java-bytecode translator toolkit.
 * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
 *
 * The contents of this file are subject to the Mozilla Public License
 Version
 * 1.1 (the "License"); you may not use this file except in compliance with
 * the License.  Alternatively, the contents of this file may be used under
 * the terms of the GNU Lesser General Public License Version 2.1 or later,
 * or the Apache License Version 2.0.
 *
 * Software distributed under the License is distributed on an "AS IS"
 basis,
 * WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 * for the specific language governing rights and limitations under the
 * License.
 */

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 27
org.jboss.logging:jboss-logging

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * JBoss, Home of Professional Open Source.
 *
 * Copyright 2010 Red Hat, Inc.
```

```
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 28
org.slf4j:jcl-over-slf4j
org.slf4j:log4j-over-slf4j

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
/*
 * Copyright 2001-2004 The Apache Software Foundation.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 29
org.slf4j:jul-to-slf4j
org.slf4j:slf4j-api

== License
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
```

```
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Duo Security / Component(s): duo_nodejs 1.0.5

```
Copyright (c) 2011, Duo Security, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Eclipse Foundation / Component(s): Eclipse Development Platform (SDK) 4.8.0

```
http://www.eclipse.org/legal/epl-2.0/


Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE (“AGREEMENT”). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS

“Contribution” means:

    a) in the case of the initial Contributor, the initial content
 Distributed under this Agreement, and
    b) in the case of each subsequent Contributor:
        i) changes to the Program, and
        ii) additions to the Program;
    where such changes and/or additions to the Program originate from and
 are Distributed by that particular Contributor. A Contribution “originates”
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do not
 include changes or additions to the Program that are not Modified Works.

“Contributor” means any person or entity that Distributes the Program.

“Licensed Patents” mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
```

```
“Program” means the Contributions Distributed in accordance with this
 Agreement.

“Recipient” means anyone who receives the Program under this Agreement or
 any Secondary License (as applicable), including Contributors.

“Derivative Works” shall mean any work, whether in Source Code or other
 form, that is based on (or derived from) the Program and for which the
 editorial revisions, annotations, elaborations, or other modifications
 represent, as a whole, an original work of authorship.

“Modified Works” shall mean any work in Source Code or other form that
 results from an addition to, deletion from, or modification of the contents
 of the Program, including, for purposes of clarity any new file in Source
 Code form that contains any contents of the Program. Modified Works shall
 not include works that contain only declarations, interfaces, types,
 classes, structures, or files of the Program solely in each case in
 order to link to, bind by name, or subclass the Program or Modified Works
 thereof.

“Distribute” means the acts of a) distributing or b) making available in any
 manner that enables the transfer of a copy.

“Source Code” means the form of a Program preferred for making
 modifications, including but not limited to software source code,
 documentation source, and configuration files.

“Secondary License” means either the GNU General Public License, Version
 2.0, or any later versions of that license, including any exceptions or
 additional permissions as identified by the initial Contributor.
2. GRANT OF RIGHTS

    a) Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free copyright license
 to reproduce, prepare Derivative Works of, publicly display, publicly
 perform, Distribute and sublicense the Contribution of such Contributor, if
 any, and such Derivative Works.
    b) Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free patent license
 under Licensed Patents to make, use, sell, offer to sell, import and
 otherwise transfer the Contribution of such Contributor, if any, in Source
 Code or other form. This patent license shall apply to the combination
 of the Contribution and the Program if, at the time the Contribution is
 added by the Contributor, such addition of the Contribution causes such
 combination to be covered by the Licensed Patents. The patent license shall
 not apply to any other combinations which include the Contribution. No
 hardware per se is licensed hereunder.
    c) Recipient understands that although each Contributor grants the
 licenses to its Contributions set forth herein, no assurances are provided
 by any Contributor that the Program does not infringe the patent or
 other intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to Distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
    d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
```

```
    e) Notwithstanding the terms of any Secondary License, no Contributor
 makes additional grants to any Recipient (other than those set forth in
 this Agreement) as a result of such Recipient's receipt of the Program
 under the terms of a Secondary License (if permitted under the terms of
 Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

    a) the Program must also be made available as Source Code, in accordance
 with section 3.2, and the Contributor must accompany the Program with a
 statement that the Source Code for the Program is available under this
 Agreement, and informs Recipients how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange; and
    b) the Contributor may Distribute the Program under a license different
 than this Agreement, provided that such license:
        i) effectively disclaims on behalf of all other Contributors all
 warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose;
        ii) effectively excludes on behalf of all other Contributors all
 liability for damages, including direct, indirect, special, incidental and
 consequential damages, such as lost profits;
        iii) does not attempt to limit or alter the recipients' rights in
 the Source Code under section 3.2; and
        iv) requires any subsequent distribution of the Program by any party
 to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

    a) it must be made available under this Agreement, or if the Program (i)
 is combined with other material in a separate file or files made available
 under a Secondary License, and (ii) the initial Contributor attached to the
 Source Code the notice described in Exhibit A of this Agreement, then the
 Program may be made available under the terms of such Secondary Licenses,
 and
    b) a copy of this Agreement must be included with each copy of the
 Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark,
 attribution notices, disclaimers of warranty, or limitations of liability
 ('notices') contained within the Program from any copy of the Program which
 they Distribute, provided that Contributors may add their own appropriate
 notices.
4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
```

```
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
 PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN “AS IS” BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED
 INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-
INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
 Recipient is solely responsible for determining the appropriateness of
 using and distributing the Program and assumes all risks associated with
 its exercise of rights under this Agreement, including but not limited to
 the risks and costs of program errors, compliance with applicable laws,
 damage to or loss of data, programs or equipment, and unavailability or
 interruption of operations.
6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE
 ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS),
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
 GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
```

```
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be Distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to Distribute
 the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no rights or licenses to the intellectual property of any
 Contributor under this Agreement, whether expressly, by implication,
 estoppel or otherwise. All rights in the Program not expressly granted
 under this Agreement are reserved. Nothing in this Agreement is intended
 to be enforceable by any entity that is not a Contributor or Recipient. No
 third-party beneficiary rights are created under this Agreement.
Exhibit A – Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary
 Licenses when the conditions for such availability set forth in the Eclipse
 Public License, v. 2.0 are satisfied: {name license(s), version(s), and
 exceptions or additional permissions here}."

    Simply including a copy of this Agreement, including this Exhibit A is
 not sufficient to license the Source Code under Secondary Licenses.

    If it is not possible or desirable to put the notice in a particular
 file, then You may include the notice in a location (such as a LICENSE file
 in a relevant directory) where a recipient would be likely to look for such
 a notice.

    You may add additional accurate notices of copyright ownership.
```

Provider: Eclipse Foundation / Component(s): Eclipse Theia IDE 1.26.0

```
****DEVELOPMENT MUST INSERT THE INFORMATION IN THE SECTIONS BELOW******
The documentation team must include the following in the documentation
 accompanying the
Oracle product that includes the EPL code:
1.  The follow files are available in source code form under the Eclipse
 Public License
at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The EPL license is
 reproduced
below).
2.  All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim
 all
warranties and conditions, express and implied, including warranties or
 conditions of
title and non-infringement, and implied warranties or conditions of
 merchantability and
fitness for a particular purpose.  In addition, such Contributors are not
 liable for any
damages, including direct, indirect, special, incidental and consequential
 damages, such
as lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public
License are offered by Oracle alone and not by any other party.
4.  { IF THERE ARE MODIFICATIONS OR ADDITIONS, INSERT THE FOLLOWING} Oracle
 has modified
the following files {LIST FILES}
```

```
5.  { IF EXECUTABLES ARE UNDER ORACLE AGREEMENT AS OPPOSED TO THE EPL,
 INSERT THE
FOLLOWING} These files are licensed in executable form under your Oracle
 license
agreement.  Oracle is solely responsible for any representations and
 warranties
contained therein.
_____________________________________________________________

This program and the accompanying materials are made available under the
terms of the Eclipse Public License v. 2.0 which is available at
https://www.eclipse.org/legal/epl-2.0, or GNU General Public License,
 version 2
with the GNU Classpath Exception which is available at
https://www.gnu.org/software/classpath/license.html.

# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.

    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.

    "Program" means the Contributions Distributed in accordance with this
    Agreement.

    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.

    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.

    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
    contents of the Program, including, for purposes of clarity any new file
    in Source Code form that contains any contents of the Program. Modified
    Works shall not include works that contain only declarations,
    interfaces, types, classes, structures, or files of the Program solely
    in each case in order to link to, bind by name, or subclass the Program
    or Modified Works thereof.
```

```
"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
```

```
      is available under this Agreement, and informs Recipients how to
      obtain it in a reasonable manner on or through a medium customarily
      used for software exchange; and

      b) the Contributor may Distribute the Program under a license
      different than this Agreement, provided that such license:
         i) effectively disclaims on behalf of all other Contributors all
         warranties and conditions, express and implied, including
         warranties or conditions of title and non-infringement, and
         implied warranties or conditions of merchantability and fitness
         for a particular purpose;

         ii) effectively excludes on behalf of all other Contributors all
         liability for damages, including direct, indirect, special,
         incidental and consequential damages, such as lost profits;

         iii) does not attempt to limit or alter the recipients' rights
         in the Source Code under section 3.2; and

         iv) requires any subsequent distribution of the Program by any
         party to be under a license that satisfies the requirements
         of this section 3.

   3.2 When the Program is Distributed as Source Code:

      a) it must be made available under this Agreement, or if the
      Program (i) is combined with other material in a separate file or
      files made available under a Secondary License, and (ii) the initial
      Contributor attached to the Source Code the notice described in
      Exhibit A of this Agreement, then the Program may be made available
      under the terms of such Secondary Licenses, and

      b) a copy of this Agreement must be included with each copy of
      the Program.

   3.3 Contributors may not remove or alter any copyright, patent,
   trademark, attribution notices, disclaimers of warranty, or limitations
   of liability ("notices") contained within the Program from any copy of
   the Program which they Distribute, provided that Contributors may add
   their own appropriate notices.

   4. COMMERCIAL DISTRIBUTION

   Commercial distributors of software may accept certain responsibilities
   with respect to end users, business partners and the like. While this
   license is intended to facilitate the commercial use of the Program,
   the Contributor who includes the Program in a commercial product
   offering should do so in a manner which does not create potential
   liability for other Contributors. Therefore, if a Contributor includes
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the
Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
   Contributor must: a) promptly notify the Commercial Contributor in
   writing of such claim, and b) allow the Commercial Contributor to
control,
   and cooperate with the Commercial Contributor in, the defense and any
```

```
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.

   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance
   claims, or offers warranties related to Product X, those performance
   claims and warranties are such Commercial Contributor's responsibility
   alone. Under this section, the Commercial Contributor would have to
   defend claims against the other Contributors related to those
performance
   claims and warranties, and if a court requires any other Contributor to
   pay any damages as a result, the Commercial Contributor must pay
   those damages.

   5. NO WARRANTY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
   BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
   IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
   TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
   PURPOSE. Each Recipient is solely responsible for determining the
   appropriateness of using and distributing the Program and assumes all
   risks associated with its exercise of rights under this Agreement,
   including but not limited to the risks and costs of program errors,
   compliance with applicable laws, damage to or loss of data, programs
   or equipment, and unavailability or interruption of operations.

   6. DISCLAIMER OF LIABILITY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
   SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
   PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
   CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
   ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
   EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
   POSSIBILITY OF SUCH DAMAGES.

   7. GENERAL

   If any provision of this Agreement is invalid or unenforceable under
   applicable law, it shall not affect the validity or enforceability of
   the remainder of the terms of this Agreement, and without further
   action by the parties hereto, such provision shall be reformed to the
   minimum extent necessary to make such provision valid and enforceable.

   If Recipient institutes patent litigation against any entity
   (including a cross-claim or counterclaim in a lawsuit) alleging that the
   Program itself (excluding combinations of the Program with other
software
   or hardware) infringes such Recipient's patent(s), then such Recipient's
   rights granted under Section 2(b) shall terminate as of the date such
   litigation is filed.

   All Recipient's rights under this Agreement shall terminate if it
   fails to comply with any of the material terms or conditions of this
   Agreement and does not cure such failure in a reasonable period of
   time after becoming aware of such noncompliance. If all Recipient's
   rights under this Agreement terminate, Recipient agrees to cease use
   and distribution of the Program as soon as reasonably practicable.
   However, Recipient's obligations under this Agreement and any licenses
```

```
    granted by Recipient relating to the Program shall continue and survive.

    Everyone is permitted to copy and distribute copies of this Agreement,
    but in order to avoid inconsistency the Agreement is copyrighted and
    may only be modified in the following manner. The Agreement Steward
    reserves the right to publish new versions (including revisions) of
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is
 published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
```

```
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.
```

```
    You may charge a fee for the physical act of transferring a copy, and
    you may at your option offer warranty protection in exchange for a fee.

    2. You may modify your copy or copies of the Program or any portion of
    it, thus forming a work based on the Program, and copy and distribute
    such modifications or work under the terms of Section 1 above, provided
    that you also meet all of these conditions:

        a) You must cause the modified files to carry prominent notices
        stating that you changed the files and the date of any change.

        b) You must cause any work that you distribute or publish, that in
        whole or in part contains or is derived from the Program or any part
        thereof, to be licensed as a whole at no charge to all third parties
        under the terms of this License.

        c) If the modified program normally reads commands interactively
        when run, you must cause it, when started running for such
        interactive use in the most ordinary way, to print or display an
        announcement including an appropriate copyright notice and a notice
        that there is no warranty (or else, saying that you provide a
        warranty) and that users may redistribute the program under these
        conditions, and telling the user how to view a copy of this License.
        (Exception: if the Program itself is interactive but does not
        normally print such an announcement, your work based on the Program
        is not required to print an announcement.)

    These requirements apply to the modified work as a whole. If
    identifiable sections of that work are not derived from the Program, and
    can be reasonably considered independent and separate works in
    themselves, then this License, and its terms, do not apply to those
    sections when you distribute them as separate works. But when you
    distribute the same sections as part of a whole which is a work based on
    the Program, the distribution of the whole must be on the terms of this
    License, whose permissions for other licensees extend to the entire
    whole, and thus to each and every part regardless of who wrote it.

    Thus, it is not the intent of this section to claim rights or contest
    your rights to work written entirely by you; rather, the intent is to
    exercise the right to control the distribution of derivative or
    collective works based on the Program.

    In addition, mere aggregation of another work not based on the Program
    with the Program (or with a work based on the Program) on a volume of a
    storage or distribution medium does not bring the other work under the
    scope of this License.

    3. You may copy and distribute the Program (or a work based on it,
    under Section 2) in object code or executable form under the terms of
    Sections 1 and 2 above provided that you also do one of the following:

        a) Accompany it with the complete corresponding machine-readable
        source code, which must be distributed under the terms of Sections 1
        and 2 above on a medium customarily used for software interchange;
or,

        b) Accompany it with a written offer, valid for at least three
        years, to give any third party, for a charge no more than your cost
        of physically performing source distribution, a complete
        machine-readable copy of the corresponding source code, to be
        distributed under the terms of Sections 1 and 2 above on a medium
        customarily used for software interchange; or,
```

```
        c) Accompany it with the information you received as to the offer to
        distribute corresponding source code. (This alternative is allowed
        only for noncommercial distribution and only if you received the
        program in object code or executable form with such an offer, in
        accord with Subsection b above.)

    The source code for a work means the preferred form of the work for
    making modifications to it. For an executable work, complete source code
    means all the source code for all modules it contains, plus any
    associated interface definition files, plus the scripts used to control
    compilation and installation of the executable. However, as a special
    exception, the source code distributed need not include anything that is
    normally distributed (in either source or binary form) with the major
    components (compiler, kernel, and so on) of the operating system on
    which the executable runs, unless that component itself accompanies the
    executable.

    If distribution of executable or object code is made by offering access
    to copy from a designated place, then offering equivalent access to copy
    the source code from the same place counts as distribution of the source
    code, even though third parties are not compelled to copy the source
    along with the object code.

    4. You may not copy, modify, sublicense, or distribute the Program
    except as expressly provided under this License. Any attempt otherwise
    to copy, modify, sublicense or distribute the Program is void, and will
    automatically terminate your rights under this License. However, parties
    who have received copies, or rights, from you under this License will
    not have their licenses terminated so long as such parties remain in
    full compliance.

    5. You are not required to accept this License, since you have not
    signed it. However, nothing else grants you permission to modify or
    distribute the Program or its derivative works. These actions are
    prohibited by law if you do not accept this License. Therefore, by
    modifying or distributing the Program (or any work based on the
    Program), you indicate your acceptance of this License to do so, and all
    its terms and conditions for copying, distributing or modifying the
    Program or works based on it.

    6. Each time you redistribute the Program (or any work based on the
    Program), the recipient automatically receives a license from the
    original licensor to copy, distribute or modify the Program subject to
    these terms and conditions. You may not impose any further restrictions
    on the recipients' exercise of the rights granted herein. You are not
    responsible for enforcing compliance by third parties to this License.

    7. If, as a consequence of a court judgment or allegation of patent
    infringement or for any other reason (not limited to patent issues),
    conditions are imposed on you (whether by court order, agreement or
    otherwise) that contradict the conditions of this License, they do not
    excuse you from the conditions of this License. If you cannot distribute
    so as to satisfy simultaneously your obligations under this License and
    any other pertinent obligations, then as a consequence you may not
    distribute the Program at all. For example, if a patent license would
    not permit royalty-free redistribution of the Program by all those who
    receive copies directly or indirectly through you, then the only way you
    could satisfy both it and this License would be to refrain entirely from
    distribution of the Program.

    If any portion of this section is held invalid or unenforceable under
    any particular circumstance, the balance of the section is intended to
    apply and the section as a whole is intended to apply in other
    circumstances.
```

```
   It is not the purpose of this section to induce you to infringe any
   patents or other property right claims or to contest validity of any
   such claims; this section has the sole purpose of protecting the
   integrity of the free software distribution system, which is implemented
   by public license practices. Many people have made generous
   contributions to the wide range of software distributed through that
   system in reliance on consistent application of that system; it is up to
   the author/donor to decide if he or she is willing to distribute
   software through any other system and a licensee cannot impose that
choice.

   This section is intended to make thoroughly clear what is believed to be
   a consequence of the rest of this License.

   8. If the distribution and/or use of the Program is restricted in
   certain countries either by patents or by copyrighted interfaces, the
   original copyright holder who places the Program under this License may
   add an explicit geographical distribution limitation excluding those
   countries, so that distribution is permitted only in or among countries
   not thus excluded. In such case, this License incorporates the
   limitation as if written in the body of this License.

   9. The Free Software Foundation may publish revised and/or new
   versions of the General Public License from time to time. Such new
   versions will be similar in spirit to the present version, but may
   differ in detail to address new problems or concerns.

   Each version is given a distinguishing version number. If the Program
   specifies a version number of this License which applies to it and "any
   later version", you have the option of following the terms and
   conditions either of that version or of any later version published by
   the Free Software Foundation. If the Program does not specify a version
   number of this License, you may choose any version ever published by the
   Free Software Foundation.

   10. If you wish to incorporate parts of the Program into other free
   programs whose distribution conditions are different, write to the
   author to ask for permission. For software which is copyrighted by the
   Free Software Foundation, write to the Free Software Foundation; we
   sometimes make exceptions for this. Our decision will be guided by the
   two goals of preserving the free status of all derivatives of our free
   software and of promoting the sharing and reuse of software generally.

   NO WARRANTY

   11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
   WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
   EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
   OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
   EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
   ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
   YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
   NECESSARY SERVICING, REPAIR OR CORRECTION.

   12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
   WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
   AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
   DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
   DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
   (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
   INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
   THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
```

```
   OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

   If you develop a new program, and you want it to be of the greatest
   possible use to the public, the best way to achieve this is to make it
   free software which everyone can redistribute and change under these
terms.

   To do so, attach the following notices to the program. It is safest to
   attach them to the start of each source file to most effectively convey
   the exclusion of warranty; and each file should have at least the
   "copyright" line and a pointer to where the full notice is found.

       One line to give the program's name and a brief idea of what it
does.
       Copyright (C)

       This program is free software; you can redistribute it and/or modify
       it under the terms of the GNU General Public License as published by
       the Free Software Foundation; either version 2 of the License, or
       (at your option) any later version.

       This program is distributed in the hope that it will be useful, but
       WITHOUT ANY WARRANTY; without even the implied warranty of
       MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
       General Public License for more details.

       You should have received a copy of the GNU General Public License
       along with this program; if not, write to the Free Software
       Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1335 USA

   Also add information on how to contact you by electronic and paper mail.

   If the program is interactive, make it output a short notice like this
   when it starts in an interactive mode:

       Gnomovision version 69, Copyright (C) year name of author
       Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
       `show w'. This is free software, and you are welcome to redistribute
       it under certain conditions; type `show c' for details.

   The hypothetical commands `show w' and `show c' should show the
   appropriate parts of the General Public License. Of course, the commands
   you use may be called something other than `show w' and `show c'; they
   could even be mouse-clicks or menu items--whatever suits your program.

   You should also get your employer (if you work as a programmer) or your
   school, if any, to sign a "copyright disclaimer" for the program, if
   necessary. Here is a sample; alter the names:

       Yoyodyne, Inc., hereby disclaims all copyright interest in the
       program `Gnomovision' (which makes passes at compilers) written by
       James Hacker.

       signature of Ty Coon, 1 April 1989
       Ty Coon, President of Vice

   This General Public License does not permit incorporating your program
   into proprietary programs. If your program is a subroutine library, you
   may consider it more useful to permit linking proprietary applications
```

```
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.
```

Provider: Eclipse Foundation / Component(s): Jakarta Bean Validation API 2.0.2

```
Jakarta Bean Validation API (jakarta.validation:jakarta.validation-api)
  Copyright 2019,2020 Eclipse Foundation.
---------------------------------------------
# Notices for Eclipse Jakarta Bean Validation

This content is produced and maintained by the Eclipse Jakarta Bean
 Validation
project.

* Project home: https://projects.eclipse.org/projects/ee4j.bean-validation

## Trademarks

 Jakarta Bean Validation is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:
```

```
 * [The specification repository](https://github.com/eclipse-ee4j/
beanvalidation-spec)
 * [The API repository](https://github.com/eclipse-ee4j/beanvalidation-api)
 * [The TCK repository](https://github.com/eclipse-ee4j/beanvalidation-tck)

## Third-party Content

This project leverages the following third party content.

Test dependencies:

 * [TestNG](https://github.com/cbeust/testng) - Apache License 2.0
 * [JCommander](https://github.com/cbeust/jcommander) - Apache License 2.0
 * [SnakeYAML](https://bitbucket.org/asomov/snakeyaml/src) - Apache License
 2.0

--------------------------------------------

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
```

```
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
```

```
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------
```

Provider: Eclipse Foundation / Component(s): Jakarta Bean Validation API 3.1.0

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
```

```
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
```

```
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

NOTICE
Notices for Eclipse Jakarta Validation
This content is produced and maintained by the Eclipse Jakarta Validation
 project.

Project home: https://projects.eclipse.org/projects/ee4j.validation
Trademarks
Jakarta Validation is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
```

```
This program and the accompanying materials are made available under the
 terms of the Apache License, Version 2.0 which is available at https://
www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

Source Code
The project maintains the following source code repositories:

The specification repository
The API repository
The TCK repository
Third-party Content
This project leverages the following third party content.
```

Provider: Eclipse Foundation / Component(s): Jakarta Restful Web Services JAX-RS API 3.1.0

```
# Notices for Jakarta RESTful Web Services

This content is produced and maintained by the **Jakarta RESTful Web
 Services**
project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxrs

## Trademarks

**Jakarta RESTful Web Services** is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

## Cryptography

Content may contain encryption software. The country in which you are
 currently
```

```
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
---
jakarta RESTful Web Services API (JAX-RS) (jakarta.ws.rs:jakarta.ws.rs-api)
Copyright (c) 2011, 2021 Oracle and/or its affiliates. All rights reserved.

    This program and the accompanying materials are made available under the
    terms of the Eclipse Public License v. 2.0, which is available at
    http://www.eclipse.org/legal/epl-2.0.

    This Source Code may also be made available under the following
 Secondary
    Licenses when the conditions for such availability set forth in the
    Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
    version 2 with the GNU Classpath Exception, which is available at
    https://www.gnu.org/software/classpath/license.html.

    SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

---------------------------------------------
Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
```

```
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
```

```
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
```

```
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
```

```
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.
---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
```

```
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
```

```
    and appropriately publish on each copy an appropriate copyright notice
    and disclaimer of warranty; keep intact all the notices that refer to
    this License and to the absence of any warranty; and give any other
    recipients of the Program a copy of this License along with the Program.

    You may charge a fee for the physical act of transferring a copy, and
    you may at your option offer warranty protection in exchange for a fee.

    2. You may modify your copy or copies of the Program or any portion of
    it, thus forming a work based on the Program, and copy and distribute
    such modifications or work under the terms of Section 1 above, provided
    that you also meet all of these conditions:

        a) You must cause the modified files to carry prominent notices
        stating that you changed the files and the date of any change.

        b) You must cause any work that you distribute or publish, that in
        whole or in part contains or is derived from the Program or any part
        thereof, to be licensed as a whole at no charge to all third parties
        under the terms of this License.

        c) If the modified program normally reads commands interactively
        when run, you must cause it, when started running for such
        interactive use in the most ordinary way, to print or display an
        announcement including an appropriate copyright notice and a notice
        that there is no warranty (or else, saying that you provide a
        warranty) and that users may redistribute the program under these
        conditions, and telling the user how to view a copy of this License.
        (Exception: if the Program itself is interactive but does not
        normally print such an announcement, your work based on the Program
        is not required to print an announcement.)

    These requirements apply to the modified work as a whole. If
    identifiable sections of that work are not derived from the Program, and
    can be reasonably considered independent and separate works in
    themselves, then this License, and its terms, do not apply to those
    sections when you distribute them as separate works. But when you
    distribute the same sections as part of a whole which is a work based on
    the Program, the distribution of the whole must be on the terms of this
    License, whose permissions for other licensees extend to the entire
    whole, and thus to each and every part regardless of who wrote it.

    Thus, it is not the intent of this section to claim rights or contest
    your rights to work written entirely by you; rather, the intent is to
    exercise the right to control the distribution of derivative or
    collective works based on the Program.

    In addition, mere aggregation of another work not based on the Program
    with the Program (or with a work based on the Program) on a volume of a
    storage or distribution medium does not bring the other work under the
    scope of this License.

    3. You may copy and distribute the Program (or a work based on it,
    under Section 2) in object code or executable form under the terms of
    Sections 1 and 2 above provided that you also do one of the following:

        a) Accompany it with the complete corresponding machine-readable
        source code, which must be distributed under the terms of Sections 1
        and 2 above on a medium customarily used for software interchange;
or,

        b) Accompany it with a written offer, valid for at least three
        years, to give any third party, for a charge no more than your cost
        of physically performing source distribution, a complete
```

```
        machine-readable copy of the corresponding source code, to be
        distributed under the terms of Sections 1 and 2 above on a medium
        customarily used for software interchange; or,

        c) Accompany it with the information you received as to the offer to
        distribute corresponding source code. (This alternative is allowed
        only for noncommercial distribution and only if you received the
        program in object code or executable form with such an offer, in
        accord with Subsection b above.)

    The source code for a work means the preferred form of the work for
    making modifications to it. For an executable work, complete source code
    means all the source code for all modules it contains, plus any
    associated interface definition files, plus the scripts used to control
    compilation and installation of the executable. However, as a special
    exception, the source code distributed need not include anything that is
    normally distributed (in either source or binary form) with the major
    components (compiler, kernel, and so on) of the operating system on
    which the executable runs, unless that component itself accompanies the
    executable.

    If distribution of executable or object code is made by offering access
    to copy from a designated place, then offering equivalent access to copy
    the source code from the same place counts as distribution of the source
    code, even though third parties are not compelled to copy the source
    along with the object code.

    4. You may not copy, modify, sublicense, or distribute the Program
    except as expressly provided under this License. Any attempt otherwise
    to copy, modify, sublicense or distribute the Program is void, and will
    automatically terminate your rights under this License. However, parties
    who have received copies, or rights, from you under this License will
    not have their licenses terminated so long as such parties remain in
    full compliance.

    5. You are not required to accept this License, since you have not
    signed it. However, nothing else grants you permission to modify or
    distribute the Program or its derivative works. These actions are
    prohibited by law if you do not accept this License. Therefore, by
    modifying or distributing the Program (or any work based on the
    Program), you indicate your acceptance of this License to do so, and all
    its terms and conditions for copying, distributing or modifying the
    Program or works based on it.

    6. Each time you redistribute the Program (or any work based on the
    Program), the recipient automatically receives a license from the
    original licensor to copy, distribute or modify the Program subject to
    these terms and conditions. You may not impose any further restrictions
    on the recipients' exercise of the rights granted herein. You are not
    responsible for enforcing compliance by third parties to this License.

    7. If, as a consequence of a court judgment or allegation of patent
    infringement or for any other reason (not limited to patent issues),
    conditions are imposed on you (whether by court order, agreement or
    otherwise) that contradict the conditions of this License, they do not
    excuse you from the conditions of this License. If you cannot distribute
    so as to satisfy simultaneously your obligations under this License and
    any other pertinent obligations, then as a consequence you may not
    distribute the Program at all. For example, if a patent license would
    not permit royalty-free redistribution of the Program by all those who
    receive copies directly or indirectly through you, then the only way you
    could satisfy both it and this License would be to refrain entirely from
    distribution of the Program.
```

```
    If any portion of this section is held invalid or unenforceable under
    any particular circumstance, the balance of the section is intended to
    apply and the section as a whole is intended to apply in other
    circumstances.

    It is not the purpose of this section to induce you to infringe any
    patents or other property right claims or to contest validity of any
    such claims; this section has the sole purpose of protecting the
    integrity of the free software distribution system, which is implemented
    by public license practices. Many people have made generous
    contributions to the wide range of software distributed through that
    system in reliance on consistent application of that system; it is up to
    the author/donor to decide if he or she is willing to distribute
    software through any other system and a licensee cannot impose that
  choice.

    This section is intended to make thoroughly clear what is believed to be
    a consequence of the rest of this License.

    8. If the distribution and/or use of the Program is restricted in
    certain countries either by patents or by copyrighted interfaces, the
    original copyright holder who places the Program under this License may
    add an explicit geographical distribution limitation excluding those
    countries, so that distribution is permitted only in or among countries
    not thus excluded. In such case, this License incorporates the
    limitation as if written in the body of this License.

    9. The Free Software Foundation may publish revised and/or new
    versions of the General Public License from time to time. Such new
    versions will be similar in spirit to the present version, but may
    differ in detail to address new problems or concerns.

    Each version is given a distinguishing version number. If the Program
    specifies a version number of this License which applies to it and "any
    later version", you have the option of following the terms and
    conditions either of that version or of any later version published by
    the Free Software Foundation. If the Program does not specify a version
    number of this License, you may choose any version ever published by the
    Free Software Foundation.

    10. If you wish to incorporate parts of the Program into other free
    programs whose distribution conditions are different, write to the
    author to ask for permission. For software which is copyrighted by the
    Free Software Foundation, write to the Free Software Foundation; we
    sometimes make exceptions for this. Our decision will be guided by the
    two goals of preserving the free status of all derivatives of our free
    software and of promoting the sharing and reuse of software generally.

    NO WARRANTY

    11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
    WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
    EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
    OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
    EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
    WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
    ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
    YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
    NECESSARY SERVICING, REPAIR OR CORRECTION.

    12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
    WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
    AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
    DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
```

```
   DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
   (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
   INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
   THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
   OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

   If you develop a new program, and you want it to be of the greatest
   possible use to the public, the best way to achieve this is to make it
   free software which everyone can redistribute and change under these
terms.

   To do so, attach the following notices to the program. It is safest to
   attach them to the start of each source file to most effectively convey
   the exclusion of warranty; and each file should have at least the
   "copyright" line and a pointer to where the full notice is found.

       One line to give the program's name and a brief idea of what it
does.
       Copyright (C) <year> <name of author>

       This program is free software; you can redistribute it and/or modify
       it under the terms of the GNU General Public License as published by
       the Free Software Foundation; either version 2 of the License, or
       (at your option) any later version.

       This program is distributed in the hope that it will be useful, but
       WITHOUT ANY WARRANTY; without even the implied warranty of
       MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
       General Public License for more details.

       You should have received a copy of the GNU General Public License
       along with this program; if not, write to the Free Software
       Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1335 USA

   Also add information on how to contact you by electronic and paper mail.

   If the program is interactive, make it output a short notice like this
   when it starts in an interactive mode:

       Gnomovision version 69, Copyright (C) year name of author
       Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
       `show w'. This is free software, and you are welcome to redistribute
       it under certain conditions; type `show c' for details.

   The hypothetical commands `show w' and `show c' should show the
   appropriate parts of the General Public License. Of course, the commands
   you use may be called something other than `show w' and `show c'; they
   could even be mouse-clicks or menu items--whatever suits your program.

   You should also get your employer (if you work as a programmer) or your
   school, if any, to sign a "copyright disclaimer" for the program, if
   necessary. Here is a sample; alter the names:

       Yoyodyne, Inc., hereby disclaims all copyright interest in the
       program `Gnomovision' (which makes passes at compilers) written by
       James Hacker.

       signature of Ty Coon, 1 April 1989
       Ty Coon, President of Vice
```

```
    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.

----------------------------------------------------------------------
/*
 * Copyright (c) 2018 Markus KARG. All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
 */
--------------------------------------------
Fourth Party Dependencies
--------------------------------------------
Jakarta Activation API (JAF) (jakarta.activation:jakarta.activation-api)

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
```

```
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Eclipse Foundation / Component(s): Jakarta Servlet 4.0.4

```
------------------------------- Top-level license -------------------------

Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
```

```
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS
```

```
3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
```

```
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
```

```
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

--------------------------------(separator)---------------------------------


The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
```

```
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
```

```
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,
```

```
    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.
```

```
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
```

```
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.
```

```
--------------------------------(separator)---------------------------------

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.

------------------------------- Copyright notices --------------------------

 * Copyright (c) 2017, 2018 Oracle and/or its affiliates and others.
 * All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v. 2.0, which is available at
 * http://www.eclipse.org/legal/epl-2.0.
 *
 * This Source Code may also be made available under the following Secondary
 * Licenses when the conditions for such availability set forth in the
 * Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
 * version 2 with the GNU Classpath Exception, which is available at
 * https://www.gnu.org/software/classpath/license.html.
 *
 * SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

--------------------------------(separator)---------------------------------

# Notices for Eclipse Project for Servlet

This content is produced and maintained by the Eclipse Project for Servlet
project.

* Project home: https://projects.eclipse.org/projects/ee4j.servlet

## Trademarks

Eclipse Project for Servlet is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
```

```
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html. Portions
 of
this program and the accompanying materials are made available under the
 terms
of the Apache License, version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: (EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)
 AND Apache-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/servlet-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
```

Provider: Eclipse Foundation / Component(s): Jakarta Servlet 6.1.0-M1

```
# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.
```

```
"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
```

```
      rights and licenses granted hereunder, each Recipient hereby
      assumes sole responsibility to secure any other intellectual
      property rights needed, if any. For example, if a third party
      patent license is required to allow Recipient to Distribute the
      Program, it is Recipient's responsibility to acquire that license
      before distributing the Program.

      d) Each Contributor represents that to its knowledge it has
      sufficient copyright rights in its Contribution, if any, to grant
      the copyright license set forth in this Agreement.

      e) Notwithstanding the terms of any Secondary License, no
      Contributor makes additional grants to any Recipient (other than
      those set forth in this Agreement) as a result of such Recipient's
      receipt of the Program under the terms of a Secondary License
      (if permitted under the terms of Section 3).

    3. REQUIREMENTS

    3.1 If a Contributor Distributes the Program in any form, then:

      a) the Program must also be made available as Source Code, in
      accordance with section 3.2, and the Contributor must accompany
      the Program with a statement that the Source Code for the Program
      is available under this Agreement, and informs Recipients how to
      obtain it in a reasonable manner on or through a medium customarily
      used for software exchange; and

      b) the Contributor may Distribute the Program under a license
      different than this Agreement, provided that such license:
         i) effectively disclaims on behalf of all other Contributors all
         warranties and conditions, express and implied, including
         warranties or conditions of title and non-infringement, and
         implied warranties or conditions of merchantability and fitness
         for a particular purpose;

         ii) effectively excludes on behalf of all other Contributors all
         liability for damages, including direct, indirect, special,
         incidental and consequential damages, such as lost profits;

         iii) does not attempt to limit or alter the recipients' rights
         in the Source Code under section 3.2; and

         iv) requires any subsequent distribution of the Program by any
         party to be under a license that satisfies the requirements
         of this section 3.

    3.2 When the Program is Distributed as Source Code:

      a) it must be made available under this Agreement, or if the
      Program (i) is combined with other material in a separate file or
      files made available under a Secondary License, and (ii) the initial
      Contributor attached to the Source Code the notice described in
      Exhibit A of this Agreement, then the Program may be made available
      under the terms of such Secondary Licenses, and

      b) a copy of this Agreement must be included with each copy of
      the Program.

    3.3 Contributors may not remove or alter any copyright, patent,
    trademark, attribution notices, disclaimers of warranty, or limitations
    of liability ("notices") contained within the Program from any copy of
    the Program which they Distribute, provided that Contributors may add
    their own appropriate notices.
```

```
   4. COMMERCIAL DISTRIBUTION

   Commercial distributors of software may accept certain responsibilities
   with respect to end users, business partners and the like. While this
   license is intended to facilitate the commercial use of the Program,
   the Contributor who includes the Program in a commercial product
   offering should do so in a manner which does not create potential
   liability for other Contributors. Therefore, if a Contributor includes
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the
Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
   Contributor must: a) promptly notify the Commercial Contributor in
   writing of such claim, and b) allow the Commercial Contributor to
control,
   and cooperate with the Commercial Contributor in, the defense and any
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.

   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance
   claims, or offers warranties related to Product X, those performance
   claims and warranties are such Commercial Contributor's responsibility
   alone. Under this section, the Commercial Contributor would have to
   defend claims against the other Contributors related to those
performance
   claims and warranties, and if a court requires any other Contributor to
   pay any damages as a result, the Commercial Contributor must pay
   those damages.

   5. NO WARRANTY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
   BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
   IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
   TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
   PURPOSE. Each Recipient is solely responsible for determining the
   appropriateness of using and distributing the Program and assumes all
   risks associated with its exercise of rights under this Agreement,
   including but not limited to the risks and costs of program errors,
   compliance with applicable laws, damage to or loss of data, programs
   or equipment, and unavailability or interruption of operations.

   6. DISCLAIMER OF LIABILITY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
   SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
   PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
   CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
   ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
   EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
   POSSIBILITY OF SUCH DAMAGES.
```

```
   7. GENERAL

   If any provision of this Agreement is invalid or unenforceable under
   applicable law, it shall not affect the validity or enforceability of
   the remainder of the terms of this Agreement, and without further
   action by the parties hereto, such provision shall be reformed to the
   minimum extent necessary to make such provision valid and enforceable.

   If Recipient institutes patent litigation against any entity
   (including a cross-claim or counterclaim in a lawsuit) alleging that the
   Program itself (excluding combinations of the Program with other
software
   or hardware) infringes such Recipient's patent(s), then such Recipient's
   rights granted under Section 2(b) shall terminate as of the date such
   litigation is filed.

   All Recipient's rights under this Agreement shall terminate if it
   fails to comply with any of the material terms or conditions of this
   Agreement and does not cure such failure in a reasonable period of
   time after becoming aware of such noncompliance. If all Recipient's
   rights under this Agreement terminate, Recipient agrees to cease use
   and distribution of the Program as soon as reasonably practicable.
   However, Recipient's obligations under this Agreement and any licenses
   granted by Recipient relating to the Program shall continue and survive.

   Everyone is permitted to copy and distribute copies of this Agreement,
   but in order to avoid inconsistency the Agreement is copyrighted and
   may only be modified in the following manner. The Agreement Steward
   reserves the right to publish new versions (including revisions) of
   this Agreement from time to time. No one other than the Agreement
   Steward has the right to modify this Agreement. The Eclipse Foundation
   is the initial Agreement Steward. The Eclipse Foundation may assign the
   responsibility to serve as the Agreement Steward to a suitable separate
   entity. Each new version of the Agreement will be given a distinguishing
   version number. The Program (including Contributions) may always be
   Distributed subject to the version of the Agreement under which it was
   received. In addition, after a new version of the Agreement is
published,
   Contributor may elect to Distribute the Program (including its
   Contributions) under the new version.

   Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
   receives no rights or licenses to the intellectual property of any
   Contributor under this Agreement, whether expressly, by implication,
   estoppel or otherwise. All rights in the Program not expressly granted
   under this Agreement are reserved. Nothing in this Agreement is intended
   to be enforceable by any entity that is not a Contributor or Recipient.
   No third-party beneficiary rights are created under this Agreement.

   Exhibit A - Form of Secondary Licenses Notice

   "This Source Code may also be made available under the following
   Secondary Licenses when the conditions for such availability set forth
   in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
   version(s), and exceptions or additional permissions here}."

     Simply including a copy of this Agreement, including this Exhibit A
     is not sufficient to license the Source Code under Secondary Licenses.

     If it is not possible or desirable to put the notice in a particular
     file, then You may include the notice in a location (such as a LICENSE
     file in a relevant directory) where a recipient would be likely to
     look for such a notice.
```

```
      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.

    When we speak of free software, we are referring to freedom, not price.
    Our General Public Licenses are designed to make sure that you have the
    freedom to distribute copies of free software (and charge for this
    service if you wish), that you receive source code or can get it if you
    want it, that you can change the software or use pieces of it in new
    free programs; and that you know you can do these things.

    To protect your rights, we need to make restrictions that forbid anyone
    to deny you these rights or to ask you to surrender the rights. These
    restrictions translate to certain responsibilities for you if you
    distribute copies of the software, or if you modify it.

    For example, if you distribute copies of such a program, whether gratis
    or for a fee, you must give the recipients all the rights that you have.
    You must make sure that they, too, receive or can get the source code.
    And you must show them these terms so they know their rights.

    We protect your rights with two steps: (1) copyright the software, and
    (2) offer you this license which gives you legal permission to copy,
    distribute and/or modify the software.

    Also, for each author's protection and ours, we want to make certain
    that everyone understands that there is no warranty for this free
    software. If the software is modified by someone else and passed on, we
    want its recipients to know that what they have is not the original, so
    that any problems introduced by others will not reflect on the original
    authors' reputations.

    Finally, any free program is threatened constantly by software patents.
    We wish to avoid the danger that redistributors of a free program will
    individually obtain patent licenses, in effect making the program
    proprietary. To prevent this, we have made it clear that any patent must
    be licensed for everyone's free use or not licensed at all.

    The precise terms and conditions for copying, distribution and
    modification follow.

    TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
```

```
0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
```

```
    exercise the right to control the distribution of derivative or
    collective works based on the Program.

    In addition, mere aggregation of another work not based on the Program
    with the Program (or with a work based on the Program) on a volume of a
    storage or distribution medium does not bring the other work under the
    scope of this License.

    3. You may copy and distribute the Program (or a work based on it,
    under Section 2) in object code or executable form under the terms of
    Sections 1 and 2 above provided that you also do one of the following:

        a) Accompany it with the complete corresponding machine-readable
        source code, which must be distributed under the terms of Sections 1
        and 2 above on a medium customarily used for software interchange;
or,

        b) Accompany it with a written offer, valid for at least three
        years, to give any third party, for a charge no more than your cost
        of physically performing source distribution, a complete
        machine-readable copy of the corresponding source code, to be
        distributed under the terms of Sections 1 and 2 above on a medium
        customarily used for software interchange; or,

        c) Accompany it with the information you received as to the offer to
        distribute corresponding source code. (This alternative is allowed
        only for noncommercial distribution and only if you received the
        program in object code or executable form with such an offer, in
        accord with Subsection b above.)

    The source code for a work means the preferred form of the work for
    making modifications to it. For an executable work, complete source code
    means all the source code for all modules it contains, plus any
    associated interface definition files, plus the scripts used to control
    compilation and installation of the executable. However, as a special
    exception, the source code distributed need not include anything that is
    normally distributed (in either source or binary form) with the major
    components (compiler, kernel, and so on) of the operating system on
    which the executable runs, unless that component itself accompanies the
    executable.

    If distribution of executable or object code is made by offering access
    to copy from a designated place, then offering equivalent access to copy
    the source code from the same place counts as distribution of the source
    code, even though third parties are not compelled to copy the source
    along with the object code.

    4. You may not copy, modify, sublicense, or distribute the Program
    except as expressly provided under this License. Any attempt otherwise
    to copy, modify, sublicense or distribute the Program is void, and will
    automatically terminate your rights under this License. However, parties
    who have received copies, or rights, from you under this License will
    not have their licenses terminated so long as such parties remain in
    full compliance.

    5. You are not required to accept this License, since you have not
    signed it. However, nothing else grants you permission to modify or
    distribute the Program or its derivative works. These actions are
    prohibited by law if you do not accept this License. Therefore, by
    modifying or distributing the Program (or any work based on the
    Program), you indicate your acceptance of this License to do so, and all
    its terms and conditions for copying, distributing or modifying the
    Program or works based on it.
```

```
    6. Each time you redistribute the Program (or any work based on the
    Program), the recipient automatically receives a license from the
    original licensor to copy, distribute or modify the Program subject to
    these terms and conditions. You may not impose any further restrictions
    on the recipients' exercise of the rights granted herein. You are not
    responsible for enforcing compliance by third parties to this License.

    7. If, as a consequence of a court judgment or allegation of patent
    infringement or for any other reason (not limited to patent issues),
    conditions are imposed on you (whether by court order, agreement or
    otherwise) that contradict the conditions of this License, they do not
    excuse you from the conditions of this License. If you cannot distribute
    so as to satisfy simultaneously your obligations under this License and
    any other pertinent obligations, then as a consequence you may not
    distribute the Program at all. For example, if a patent license would
    not permit royalty-free redistribution of the Program by all those who
    receive copies directly or indirectly through you, then the only way you
    could satisfy both it and this License would be to refrain entirely from
    distribution of the Program.

    If any portion of this section is held invalid or unenforceable under
    any particular circumstance, the balance of the section is intended to
    apply and the section as a whole is intended to apply in other
    circumstances.

    It is not the purpose of this section to induce you to infringe any
    patents or other property right claims or to contest validity of any
    such claims; this section has the sole purpose of protecting the
    integrity of the free software distribution system, which is implemented
    by public license practices. Many people have made generous
    contributions to the wide range of software distributed through that
    system in reliance on consistent application of that system; it is up to
    the author/donor to decide if he or she is willing to distribute
    software through any other system and a licensee cannot impose that
choice.

    This section is intended to make thoroughly clear what is believed to be
    a consequence of the rest of this License.

    8. If the distribution and/or use of the Program is restricted in
    certain countries either by patents or by copyrighted interfaces, the
    original copyright holder who places the Program under this License may
    add an explicit geographical distribution limitation excluding those
    countries, so that distribution is permitted only in or among countries
    not thus excluded. In such case, this License incorporates the
    limitation as if written in the body of this License.

    9. The Free Software Foundation may publish revised and/or new
    versions of the General Public License from time to time. Such new
    versions will be similar in spirit to the present version, but may
    differ in detail to address new problems or concerns.

    Each version is given a distinguishing version number. If the Program
    specifies a version number of this License which applies to it and "any
    later version", you have the option of following the terms and
    conditions either of that version or of any later version published by
    the Free Software Foundation. If the Program does not specify a version
    number of this License, you may choose any version ever published by the
    Free Software Foundation.

    10. If you wish to incorporate parts of the Program into other free
    programs whose distribution conditions are different, write to the
    author to ask for permission. For software which is copyrighted by the
    Free Software Foundation, write to the Free Software Foundation; we
```

```
   sometimes make exceptions for this. Our decision will be guided by the
   two goals of preserving the free status of all derivatives of our free
   software and of promoting the sharing and reuse of software generally.

   NO WARRANTY

   11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
   WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
   EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
   OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
   EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
   ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
   YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
   NECESSARY SERVICING, REPAIR OR CORRECTION.

   12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
   WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
   AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
   DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
   DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
   (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
   INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
   THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
   OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

   If you develop a new program, and you want it to be of the greatest
   possible use to the public, the best way to achieve this is to make it
   free software which everyone can redistribute and change under these
terms.

   To do so, attach the following notices to the program. It is safest to
   attach them to the start of each source file to most effectively convey
   the exclusion of warranty; and each file should have at least the
   "copyright" line and a pointer to where the full notice is found.

       One line to give the program's name and a brief idea of what it
does.
       Copyright (C) <year> <name of author>

       This program is free software; you can redistribute it and/or modify
       it under the terms of the GNU General Public License as published by
       the Free Software Foundation; either version 2 of the License, or
       (at your option) any later version.

       This program is distributed in the hope that it will be useful, but
       WITHOUT ANY WARRANTY; without even the implied warranty of
       MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
       General Public License for more details.

       You should have received a copy of the GNU General Public License
       along with this program; if not, write to the Free Software
       Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1335 USA

   Also add information on how to contact you by electronic and paper mail.

   If the program is interactive, make it output a short notice like this
   when it starts in an interactive mode:
```

```
        Gnomovision version 69, Copyright (C) year name of author
        Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
        `show w'. This is free software, and you are welcome to redistribute
        it under certain conditions; type `show c' for details.

    The hypothetical commands `show w' and `show c' should show the
    appropriate parts of the General Public License. Of course, the commands
    you use may be called something other than `show w' and `show c'; they
    could even be mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.

        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice

    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.
==============================================
# Notices for Eclipse Project for Servlet

This content is produced and maintained by the Eclipse Project for Servlet
project.

* Project home: https://projects.eclipse.org/projects/ee4j.servlet

## Trademarks

Eclipse Project for Servlet is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
```

```
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html. Portions
 of
this program and the accompanying materials are made available under the
 terms
of the Apache License, version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
```

```
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
```

```
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

SPDX-License-Identifier: (EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)
 AND Apache-2.0
```

Provider: Eclipse Foundation / Component(s): jersey-apache-connector 2.31

```
Oracle elects to use this under the terms of the EPL 2.0

Copyright (c) 2011, 2018 Oracle and/or its affiliates. All rights reserved.
This program and the accompanying materials are made available under the
terms of the Eclipse Public License v. 2.0, which is available at
http://www.eclipse.org/legal/epl-2.0.
This Source Code may also be made available under the following Secondary
Licenses when the conditions for such availability set forth in the
Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
version 2 with the GNU Classpath Exception, which is available at
https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
-->

# Eclipse Public License - v 2.0
        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
    1. DEFINITIONS
    "Contribution" means:
      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and
      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
```

```
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.
    "Contributor" means any person or entity that Distributes the Program.
    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.
    "Program" means the Contributions Distributed in accordance with this
    Agreement.
    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.
    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.
    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
    contents of the Program, including, for purposes of clarity any new file
    in Source Code form that contains any contents of the Program. Modified
    Works shall not include works that contain only declarations,
    interfaces, types, classes, structures, or files of the Program solely
    in each case in order to link to, bind by name, or subclass the Program
    or Modified Works thereof.
    "Distribute" means the acts of a) distributing or b) making available
    in any manner that enables the transfer of a copy.
    "Source Code" means the form of a Program preferred for making
    modifications, including but not limited to software source code,
    documentation source, and configuration files.
    "Secondary License" means either the GNU General Public License,
    Version 2.0, or any later versions of that license, including any
    exceptions or additional permissions as identified by the initial
    Contributor.
    2. GRANT OF RIGHTS
      a) Subject to the terms of this Agreement, each Contributor hereby
      grants Recipient a non-exclusive, worldwide, royalty-free copyright
      license to reproduce, prepare Derivative Works of, publicly display,
      publicly perform, Distribute and sublicense the Contribution of such
      Contributor, if any, and such Derivative Works.
      b) Subject to the terms of this Agreement, each Contributor hereby
      grants Recipient a non-exclusive, worldwide, royalty-free patent
      license under Licensed Patents to make, use, sell, offer to sell,
      import and otherwise transfer the Contribution of such Contributor,
      if any, in Source Code or other form. This patent license shall
      apply to the combination of the Contribution and the Program if, at
      the time the Contribution is added by the Contributor, such addition
      of the Contribution causes such combination to be covered by the
      Licensed Patents. The patent license shall not apply to any other
      combinations which include the Contribution. No hardware per se is
      licensed hereunder.
      c) Recipient understands that although each Contributor grants the
      licenses to its Contributions set forth herein, no assurances are
      provided by any Contributor that the Program does not infringe the
      patent or other intellectual property rights of any other entity.
      Each Contributor disclaims any liability to Recipient for claims
      brought by any other entity based on infringement of intellectual
      property rights or otherwise. As a condition to exercising the
      rights and licenses granted hereunder, each Recipient hereby
      assumes sole responsibility to secure any other intellectual
      property rights needed, if any. For example, if a third party
      patent license is required to allow Recipient to Distribute the
      Program, it is Recipient's responsibility to acquire that license
```

```
      before distributing the Program.
      d) Each Contributor represents that to its knowledge it has
      sufficient copyright rights in its Contribution, if any, to grant
      the copyright license set forth in this Agreement.
      e) Notwithstanding the terms of any Secondary License, no
      Contributor makes additional grants to any Recipient (other than
      those set forth in this Agreement) as a result of such Recipient's
      receipt of the Program under the terms of a Secondary License
      (if permitted under the terms of Section 3).
   3. REQUIREMENTS
   3.1 If a Contributor Distributes the Program in any form, then:
      a) the Program must also be made available as Source Code, in
      accordance with section 3.2, and the Contributor must accompany
      the Program with a statement that the Source Code for the Program
      is available under this Agreement, and informs Recipients how to
      obtain it in a reasonable manner on or through a medium customarily
      used for software exchange; and
      b) the Contributor may Distribute the Program under a license
      different than this Agreement, provided that such license:
         i) effectively disclaims on behalf of all other Contributors all
         warranties and conditions, express and implied, including
         warranties or conditions of title and non-infringement, and
         implied warranties or conditions of merchantability and fitness
         for a particular purpose;
         ii) effectively excludes on behalf of all other Contributors all
         liability for damages, including direct, indirect, special,
         incidental and consequential damages, such as lost profits;
         iii) does not attempt to limit or alter the recipients' rights
         in the Source Code under section 3.2; and
         iv) requires any subsequent distribution of the Program by any
         party to be under a license that satisfies the requirements
         of this section 3.
   3.2 When the Program is Distributed as Source Code:
      a) it must be made available under this Agreement, or if the
      Program (i) is combined with other material in a separate file or
      files made available under a Secondary License, and (ii) the initial
      Contributor attached to the Source Code the notice described in
      Exhibit A of this Agreement, then the Program may be made available
      under the terms of such Secondary Licenses, and
      b) a copy of this Agreement must be included with each copy of
      the Program.
   3.3 Contributors may not remove or alter any copyright, patent,
   trademark, attribution notices, disclaimers of warranty, or limitations
   of liability ("notices") contained within the Program from any copy of
   the Program which they Distribute, provided that Contributors may add
   their own appropriate notices.
   4. COMMERCIAL DISTRIBUTION
   Commercial distributors of software may accept certain responsibilities
   with respect to end users, business partners and the like. While this
   license is intended to facilitate the commercial use of the Program,
   the Contributor who includes the Program in a commercial product
   offering should do so in a manner which does not create potential
   liability for other Contributors. Therefore, if a Contributor includes
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the
Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
```

```
   Contributor must: a) promptly notify the Commercial Contributor in
   writing of such claim, and b) allow the Commercial Contributor to
control,
   and cooperate with the Commercial Contributor in, the defense and any
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.
   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance
   claims, or offers warranties related to Product X, those performance
   claims and warranties are such Commercial Contributor's responsibility
   alone. Under this section, the Commercial Contributor would have to
   defend claims against the other Contributors related to those
performance
   claims and warranties, and if a court requires any other Contributor to
   pay any damages as a result, the Commercial Contributor must pay
   those damages.
   5. NO WARRANTY
   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
   BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
   IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
   TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
   PURPOSE. Each Recipient is solely responsible for determining the
   appropriateness of using and distributing the Program and assumes all
   risks associated with its exercise of rights under this Agreement,
   including but not limited to the risks and costs of program errors,
   compliance with applicable laws, damage to or loss of data, programs
   or equipment, and unavailability or interruption of operations.
   6. DISCLAIMER OF LIABILITY
   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
   SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
   PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
   CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
   ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
   EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
   POSSIBILITY OF SUCH DAMAGES.
   7. GENERAL
   If any provision of this Agreement is invalid or unenforceable under
   applicable law, it shall not affect the validity or enforceability of
   the remainder of the terms of this Agreement, and without further
   action by the parties hereto, such provision shall be reformed to the
   minimum extent necessary to make such provision valid and enforceable.
   If Recipient institutes patent litigation against any entity
   (including a cross-claim or counterclaim in a lawsuit) alleging that the
   Program itself (excluding combinations of the Program with other
software
   or hardware) infringes such Recipient's patent(s), then such Recipient's
   rights granted under Section 2(b) shall terminate as of the date such
   litigation is filed.
   All Recipient's rights under this Agreement shall terminate if it
   fails to comply with any of the material terms or conditions of this
   Agreement and does not cure such failure in a reasonable period of
   time after becoming aware of such noncompliance. If all Recipient's
   rights under this Agreement terminate, Recipient agrees to cease use
   and distribution of the Program as soon as reasonably practicable.
   However, Recipient's obligations under this Agreement and any licenses
   granted by Recipient relating to the Program shall continue and survive.
   Everyone is permitted to copy and distribute copies of this Agreement,
   but in order to avoid inconsistency the Agreement is copyrighted and
   may only be modified in the following manner. The Agreement Steward
   reserves the right to publish new versions (including revisions) of
```

```
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is
 published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.
    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.
    Exhibit A - Form of Secondary Licenses Notice
    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."
      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.
      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.
      You may add additional accurate notices of copyright ownership.
---
.
---------------------------- Fourth-party information ----------------------
== org.apache.httpcomponents:httpclient:jar
.
== Apache License v2.0
.
==
Apache HttpComponents Client
Copyright 1999-2019 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
.
== org.apache.httpcomponents:httpcore:jar
.
== Apache License v2.0
.
==
Apache HttpComponents Core
Copyright 2005-2019 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
== commons-logging:commons-logging:jar
.
== Apache License v2.0
.
==
Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
== commons-logging:commons-codec:jar
.
== Apache License v2.0
```

```
.
==
Apache Commons Codec
Copyright 2002-2019 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)
The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
.
--------------------------------(separator)---------------------------------
== LICENSES
.
==
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
```

```
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
```

Provider: Eclipse Foundation / Component(s): jersey-apache-connector 2.34

```
# Eclipse Public License - v 2.0
        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
    1. DEFINITIONS
    "Contribution" means:
      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and
      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
```

```
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.
    "Contributor" means any person or entity that Distributes the Program.
    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.
    "Program" means the Contributions Distributed in accordance with this
    Agreement.
    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.
    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.
    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
    contents of the Program, including, for purposes of clarity any new file
    in Source Code form that contains any contents of the Program. Modified
    Works shall not include works that contain only declarations,
    interfaces, types, classes, structures, or files of the Program solely
    in each case in order to link to, bind by name, or subclass the Program
    or Modified Works thereof.
    "Distribute" means the acts of a) distributing or b) making available
    in any manner that enables the transfer of a copy.
    "Source Code" means the form of a Program preferred for making
    modifications, including but not limited to software source code,
    documentation source, and configuration files.
    "Secondary License" means either the GNU General Public License,
    Version 2.0, or any later versions of that license, including any
    exceptions or additional permissions as identified by the initial
    Contributor.
    2. GRANT OF RIGHTS
      a) Subject to the terms of this Agreement, each Contributor hereby
      grants Recipient a non-exclusive, worldwide, royalty-free copyright
      license to reproduce, prepare Derivative Works of, publicly display,
      publicly perform, Distribute and sublicense the Contribution of such
      Contributor, if any, and such Derivative Works.
      b) Subject to the terms of this Agreement, each Contributor hereby
      grants Recipient a non-exclusive, worldwide, royalty-free patent
      license under Licensed Patents to make, use, sell, offer to sell,
      import and otherwise transfer the Contribution of such Contributor,
      if any, in Source Code or other form. This patent license shall
      apply to the combination of the Contribution and the Program if, at
      the time the Contribution is added by the Contributor, such addition
      of the Contribution causes such combination to be covered by the
      Licensed Patents. The patent license shall not apply to any other
      combinations which include the Contribution. No hardware per se is
      licensed hereunder.
      c) Recipient understands that although each Contributor grants the
      licenses to its Contributions set forth herein, no assurances are
      provided by any Contributor that the Program does not infringe the
      patent or other intellectual property rights of any other entity.
      Each Contributor disclaims any liability to Recipient for claims
      brought by any other entity based on infringement of intellectual
      property rights or otherwise. As a condition to exercising the
      rights and licenses granted hereunder, each Recipient hereby
      assumes sole responsibility to secure any other intellectual
      property rights needed, if any. For example, if a third party
      patent license is required to allow Recipient to Distribute the
      Program, it is Recipient's responsibility to acquire that license
      before distributing the Program.
      d) Each Contributor represents that to its knowledge it has
```

```
      sufficient copyright rights in its Contribution, if any, to grant
      the copyright license set forth in this Agreement.
      e) Notwithstanding the terms of any Secondary License, no
      Contributor makes additional grants to any Recipient (other than
      those set forth in this Agreement) as a result of such Recipient's
      receipt of the Program under the terms of a Secondary License
      (if permitted under the terms of Section 3).
   3. REQUIREMENTS
   3.1 If a Contributor Distributes the Program in any form, then:
      a) the Program must also be made available as Source Code, in
      accordance with section 3.2, and the Contributor must accompany
      the Program with a statement that the Source Code for the Program
      is available under this Agreement, and informs Recipients how to
      obtain it in a reasonable manner on or through a medium customarily
      used for software exchange; and
      b) the Contributor may Distribute the Program under a license
      different than this Agreement, provided that such license:
         i) effectively disclaims on behalf of all other Contributors all
         warranties and conditions, express and implied, including
         warranties or conditions of title and non-infringement, and
         implied warranties or conditions of merchantability and fitness
         for a particular purpose;
         ii) effectively excludes on behalf of all other Contributors all
         liability for damages, including direct, indirect, special,
         incidental and consequential damages, such as lost profits;
         iii) does not attempt to limit or alter the recipients' rights
         in the Source Code under section 3.2; and
         iv) requires any subsequent distribution of the Program by any
         party to be under a license that satisfies the requirements
         of this section 3.
   3.2 When the Program is Distributed as Source Code:
      a) it must be made available under this Agreement, or if the
      Program (i) is combined with other material in a separate file or
      files made available under a Secondary License, and (ii) the initial
      Contributor attached to the Source Code the notice described in
      Exhibit A of this Agreement, then the Program may be made available
      under the terms of such Secondary Licenses, and
      b) a copy of this Agreement must be included with each copy of
      the Program.
   3.3 Contributors may not remove or alter any copyright, patent,
   trademark, attribution notices, disclaimers of warranty, or limitations
   of liability ("notices") contained within the Program from any copy of
   the Program which they Distribute, provided that Contributors may add
   their own appropriate notices.
   4. COMMERCIAL DISTRIBUTION
   Commercial distributors of software may accept certain responsibilities
   with respect to end users, business partners and the like. While this
   license is intended to facilitate the commercial use of the Program,
   the Contributor who includes the Program in a commercial product
   offering should do so in a manner which does not create potential
   liability for other Contributors. Therefore, if a Contributor includes
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the
Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
   Contributor must: a) promptly notify the Commercial Contributor in
```

```
   writing of such claim, and b) allow the Commercial Contributor to
control,
   and cooperate with the Commercial Contributor in, the defense and any
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.
   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance
   claims, or offers warranties related to Product X, those performance
   claims and warranties are such Commercial Contributor's responsibility
   alone. Under this section, the Commercial Contributor would have to
   defend claims against the other Contributors related to those
performance
   claims and warranties, and if a court requires any other Contributor to
   pay any damages as a result, the Commercial Contributor must pay
   those damages.
   5. NO WARRANTY
   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
   BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
   IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
   TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
   PURPOSE. Each Recipient is solely responsible for determining the
   appropriateness of using and distributing the Program and assumes all
   risks associated with its exercise of rights under this Agreement,
   including but not limited to the risks and costs of program errors,
   compliance with applicable laws, damage to or loss of data, programs
   or equipment, and unavailability or interruption of operations.
   6. DISCLAIMER OF LIABILITY
   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
   SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
   PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
   CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
   ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
   EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
   POSSIBILITY OF SUCH DAMAGES.
   7. GENERAL
   If any provision of this Agreement is invalid or unenforceable under
   applicable law, it shall not affect the validity or enforceability of
   the remainder of the terms of this Agreement, and without further
   action by the parties hereto, such provision shall be reformed to the
   minimum extent necessary to make such provision valid and enforceable.
   If Recipient institutes patent litigation against any entity
   (including a cross-claim or counterclaim in a lawsuit) alleging that the
   Program itself (excluding combinations of the Program with other
software
   or hardware) infringes such Recipient's patent(s), then such Recipient's
   rights granted under Section 2(b) shall terminate as of the date such
   litigation is filed.
   All Recipient's rights under this Agreement shall terminate if it
   fails to comply with any of the material terms or conditions of this
   Agreement and does not cure such failure in a reasonable period of
   time after becoming aware of such noncompliance. If all Recipient's
   rights under this Agreement terminate, Recipient agrees to cease use
   and distribution of the Program as soon as reasonably practicable.
   However, Recipient's obligations under this Agreement and any licenses
   granted by Recipient relating to the Program shall continue and survive.
   Everyone is permitted to copy and distribute copies of this Agreement,
   but in order to avoid inconsistency the Agreement is copyrighted and
   may only be modified in the following manner. The Agreement Steward
   reserves the right to publish new versions (including revisions) of
   this Agreement from time to time. No one other than the Agreement
```

```
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is
 published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.
    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.
    Exhibit A - Form of Secondary Licenses Notice
    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."
      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.
      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.
      You may add additional accurate notices of copyright ownership.
---

------------------------------- Copyright notices --------------------------
<
!--
Copyright (c) 2011, 2018 Oracle and/or its affiliates. All rights reserved.
This program and the accompanying materials are made available under the
terms of the Eclipse Public License v. 2.0, which is available at
http://www.eclipse.org/legal/epl-2.0.
This Source Code may also be made available under the following Secondary
Licenses when the conditions for such availability set forth in the
Eclipse Public License v. 2.0 are satisfied: GNU General Public License,
version 2 with the GNU Classpath Exception, which is available at
https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
-->
.
.
.
---------------------------- Fourth-party information ----------------------
== org.apache.httpcomponents:httpclient:jar:4.5.13
.
== Apache License v2.0
.
==
Apache HttpComponents Client
Copyright 1999-2019 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
.
== org.apache.httpcomponents:httpcore:jar:4.5.13
.
== Apache License v2.0
.
==
```

```
Apache HttpComponents Core
Copyright 2005-2019 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
== commons-logging:commons-logging:jar:1.12
.
== Apache License v2.0
.
.
==
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
```

Provider: Eclipse Foundation / Component(s): jersey-client 2.31

```
****DEVELOPMENT MUST INSERT THE INFORMATION IN THE SECTIONS BELOW******
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:
1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).
2.  All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim
 all warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose.  In
 addition, such Contributors are not liable for any damages, including
 direct, indirect, special, incidental and consequential damages, such as
 lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.
4.  { IF THERE ARE MODIFICATIONS OR ADDITIONS, INSERT THE FOLLOWING} Oracle
 has modified the following files {LIST FILES}
5.  { IF EXECUTABLES ARE UNDER ORACLE AGREEMENT AS OPPOSED TO THE EPL,
 INSERT THE FOLLOWING} These files are licensed in executable form under
 your Oracle license agreement.  Oracle is solely responsible for any
 representations and warranties contained therein.
_____________________________________________________________________
```

```
  Copyright (c) 2018 Payara Foundation and/or its affiliates. All rights
 reserved.
  Copyright (c) 2018,2019 Payara Foundation and/or its affiliates.
  Copyright (c) 2010,2020 Oracle and/or its affiliates. All rights reserved.
---------------------------------------------

Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
```

```
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
```

```
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
```

```
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
```

```
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

-----------------------------------------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"jakarta.ws.rs-api" (jakarta.ws.rs:jakarta.ws.rs-api)
  Copyright (c) 2010,2019 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2006 Google Inc.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"jersey-core-common" (org.glassfish.jersey.core:jersey-common)
  Copyright (c) 2007,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2018 Payara Foundation and/or its affiliates.
  Copyright (C) 2006,2014 The Guava Authors
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"Jakarta Annotations API" (jakarta.annotation:jakarta.annotation-api)
  Copyright (c) 2005,2018 Oracle and/or its affiliates. All rights reserved.
  Copyright &#169; 2019 Eclipse Foundation. All rights reserved.<br>
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"OSGi resource locator" (org.glassfish.hk2:osgi-resource-locator)
  Copyright (c) 2009,2018 Oracle and/or its affiliates. All rights reserved.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"javax.inject:1 as OSGi bundle" (org.glassfish.hk2.external:jakarta.inject)
  Copyright (C) 2009 The JSR-330 Expert Group
  Copyright (c) 2010,2018 Oracle and/or its affiliates. All rights reserved.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"Jakarta Activation" (com.sun.activation:jakarta.activation)
  Copyright (c) 1997,2019 Oracle and/or its affiliates. All rights reserved.

Eclipse Distribution License - v 1.0 Copyright (c) 2007, Eclipse Foundation,
Inc. and its licensors.

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list
of conditions and the following disclaimer. Redistributions in binary form
 must
reproduce the above copyright notice, this list of conditions and the
 following
disclaimer in the documentation and/or other materials provided with the
distribution. Neither the name of the Eclipse Foundation, Inc. nor the names
 of
its contributors may be used to endorse or promote products derived from
 this
software without specific prior written permission. THIS SOFTWARE IS
 PROVIDED BY
THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
 OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------
```

Provider: Eclipse Foundation / Component(s): jersey-common 2.34

```
Oracle elects to use under the terms of the EPL 2.0.

Eclipse Public License - v 2.0
------------------------------
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE (“AGREEMENT”). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
“Contribution” means:
a) in the case of the initial Contributor, the initial content Distributed
 under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 Distributed by that particular Contributor. A Contribution “originates”
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do not
 include changes or additions to the Program that are not Modified Works.
“Contributor” means any person or entity that Distributes the Program.
“Licensed Patents” mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
“Program” means the Contributions Distributed in accordance with this
 Agreement.
“Recipient” means anyone who receives the Program under this Agreement or
 any Secondary License (as applicable), including Contributors.
```

```
"Derivative Works" shall mean any work, whether in Source Code or other
 form, that is based on (or derived from) the Program and for which the
 editorial revisions, annotations, elaborations, or other modifications
 represent, as a whole, an original work of authorship.
"Modified Works" shall mean any work in Source Code or other form that
 results from an addition to, deletion from, or modification of the contents
 of the Program, including, for purposes of clarity any new file in Source
 Code form that contains any contents of the Program. Modified Works shall
 not include works that contain only declarations, interfaces, types,
 classes, structures, or files of the Program solely in each case in
 order to link to, bind by name, or subclass the Program or Modified Works
 thereof.
"Distribute" means the acts of a) distributing or b) making available in any
 manner that enables the transfer of a copy.
"Source Code" means the form of a Program preferred for making
 modifications, including but not limited to software source code,
 documentation source, and configuration files.
"Secondary License" means either the GNU General Public License, Version
 2.0, or any later versions of that license, including any exceptions or
 additional permissions as identified by the initial Contributor.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 Distribute and sublicense the Contribution of such Contributor, if any, and
 such Derivative Works.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in Source Code
 or other form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to Distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
e) Notwithstanding the terms of any Secondary License, no Contributor makes
 additional grants to any Recipient (other than those set forth in this
 Agreement) as a result of such Recipient's receipt of the Program under the
 terms of a Secondary License (if permitted under the terms of Section 3).
3. REQUIREMENTS
3.1 If a Contributor Distributes the Program in any form, then:
a) the Program must also be made available as Source Code, in accordance
 with section 3.2, and the Contributor must accompany the Program with a
 statement that the Source Code for the Program is available under this
 Agreement, and informs Recipients how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange; and
b) the Contributor may Distribute the Program under a license different than
 this Agreement, provided that such license:
```

```
i) effectively disclaims on behalf of all other Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all other Contributors all liability
 for damages, including direct, indirect, special, incidental and
 consequential damages, such as lost profits;
iii) does not attempt to limit or alter the recipients' rights in the Source
 Code under section 3.2; and
iv) requires any subsequent distribution of the Program by any party to be
 under a license that satisfies the requirements of this section 3.
3.2 When the Program is Distributed as Source Code:
a) it must be made available under this Agreement, or if the Program (i)
 is combined with other material in a separate file or files made available
 under a Secondary License, and (ii) the initial Contributor attached to the
 Source Code the notice described in Exhibit A of this Agreement, then the
 Program may be made available under the terms of such Secondary Licenses,
 and
b) a copy of this Agreement must be included with each copy of the Program.
3.3 Contributors may not remove or alter any copyright, patent, trademark,
 attribution notices, disclaimers of warranty, or limitations of liability
 ('notices') contained within the Program from any copy of the Program which
 they Distribute, provided that Contributors may add their own appropriate
 notices.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
 PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED
 INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-
INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
 Recipient is solely responsible for determining the appropriateness of
 using and distributing the Program and assumes all risks associated with
 its exercise of rights under this Agreement, including but not limited to
 the risks and costs of program errors, compliance with applicable laws,
```

```
 damage to or loss of data, programs or equipment, and unavailability or
 interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE
 ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS),
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
 GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be Distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to Distribute
 the Program (including its Contributions) under the new version.
Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no rights or licenses to the intellectual property of any
 Contributor under this Agreement, whether expressly, by implication,
 estoppel or otherwise. All rights in the Program not expressly granted
 under this Agreement are reserved. Nothing in this Agreement is intended
 to be enforceable by any entity that is not a Contributor or Recipient. No
 third-party beneficiary rights are created under this Agreement.
Exhibit A - Form of Secondary Licenses Notice
"This Source Code may also be made available under the following Secondary
 Licenses when the conditions for such availability set forth in the Eclipse
 Public License, v. 2.0 are satisfied: {name license(s), version(s), and
 exceptions or additional permissions here}."
Simply including a copy of this Agreement, including this Exhibit A is not
 sufficient to license the Source Code under Secondary Licenses.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
# NOTICE.md for jersey-common 2.34
-----------------------------------
```

```
This content is produced and maintained by the Eclipse Jersey project.
*  Project home: https://projects.eclipse.org/projects/ee4j.jersey
## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.
## Copyright
All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.
## Declared Project Licenses
This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/jersey
## Third-party Content
-----------------------
```

Provider: Eclipse Foundation / Component(s): jersey-common 2.39.1

```
#######################################
#### TOP LEVEL LICENSE and NOTICE ####
#######################################

org.glassfish.jersey.core:jersey-common


---------------------------------------------

# Notice for Jersey Core Common module
This content is produced and maintained by the Eclipse Jersey project.


* https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 (license text below). This Source Code
 may also be made
```

```
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception(license
 text below).

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

## Third-party Content

Google Guava Version 18.0
* License: Apache License, 2.0
* Copyright: (C) 2009 The Guava Authors

JSR-166 Extension - JEP 266
* License: Creative Commons 1.0 (CC0)
* No copyright
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/publicdomain/zero/1.0/



---------------------------------------------

# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.

    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.

    "Program" means the Contributions Distributed in accordance with this
    Agreement.

    "Recipient" means anyone who receives the Program under this Agreement
```

```
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
```

```
      the copyright license set forth in this Agreement.

      e) Notwithstanding the terms of any Secondary License, no
      Contributor makes additional grants to any Recipient (other than
      those set forth in this Agreement) as a result of such Recipient's
      receipt of the Program under the terms of a Secondary License
      (if permitted under the terms of Section 3).

    3. REQUIREMENTS

    3.1 If a Contributor Distributes the Program in any form, then:

      a) the Program must also be made available as Source Code, in
      accordance with section 3.2, and the Contributor must accompany
      the Program with a statement that the Source Code for the Program
      is available under this Agreement, and informs Recipients how to
      obtain it in a reasonable manner on or through a medium customarily
      used for software exchange; and

      b) the Contributor may Distribute the Program under a license
      different than this Agreement, provided that such license:
         i) effectively disclaims on behalf of all other Contributors all
         warranties and conditions, express and implied, including
         warranties or conditions of title and non-infringement, and
         implied warranties or conditions of merchantability and fitness
         for a particular purpose;

         ii) effectively excludes on behalf of all other Contributors all
         liability for damages, including direct, indirect, special,
         incidental and consequential damages, such as lost profits;

         iii) does not attempt to limit or alter the recipients' rights
         in the Source Code under section 3.2; and

         iv) requires any subsequent distribution of the Program by any
         party to be under a license that satisfies the requirements
         of this section 3.

    3.2 When the Program is Distributed as Source Code:

      a) it must be made available under this Agreement, or if the
      Program (i) is combined with other material in a separate file or
      files made available under a Secondary License, and (ii) the initial
      Contributor attached to the Source Code the notice described in
      Exhibit A of this Agreement, then the Program may be made available
      under the terms of such Secondary Licenses, and

      b) a copy of this Agreement must be included with each copy of
      the Program.

    3.3 Contributors may not remove or alter any copyright, patent,
    trademark, attribution notices, disclaimers of warranty, or limitations
    of liability ("notices") contained within the Program from any copy of
    the Program which they Distribute, provided that Contributors may add
    their own appropriate notices.

    4. COMMERCIAL DISTRIBUTION

    Commercial distributors of software may accept certain responsibilities
    with respect to end users, business partners and the like. While this
    license is intended to facilitate the commercial use of the Program,
    the Contributor who includes the Program in a commercial product
    offering should do so in a manner which does not create potential
    liability for other Contributors. Therefore, if a Contributor includes
```

```
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the
Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
   Contributor must: a) promptly notify the Commercial Contributor in
   writing of such claim, and b) allow the Commercial Contributor to
control,
   and cooperate with the Commercial Contributor in, the defense and any
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.

   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance
   claims, or offers warranties related to Product X, those performance
   claims and warranties are such Commercial Contributor's responsibility
   alone. Under this section, the Commercial Contributor would have to
   defend claims against the other Contributors related to those
performance
   claims and warranties, and if a court requires any other Contributor to
   pay any damages as a result, the Commercial Contributor must pay
   those damages.

   5. NO WARRANTY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
   BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
   IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
   TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
   PURPOSE. Each Recipient is solely responsible for determining the
   appropriateness of using and distributing the Program and assumes all
   risks associated with its exercise of rights under this Agreement,
   including but not limited to the risks and costs of program errors,
   compliance with applicable laws, damage to or loss of data, programs
   or equipment, and unavailability or interruption of operations.

   6. DISCLAIMER OF LIABILITY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
   SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
   PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
   CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
   ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
   EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
   POSSIBILITY OF SUCH DAMAGES.

   7. GENERAL

   If any provision of this Agreement is invalid or unenforceable under
   applicable law, it shall not affect the validity or enforceability of
   the remainder of the terms of this Agreement, and without further
   action by the parties hereto, such provision shall be reformed to the
   minimum extent necessary to make such provision valid and enforceable.
```

```
    If Recipient institutes patent litigation against any entity
    (including a cross-claim or counterclaim in a lawsuit) alleging that the
    Program itself (excluding combinations of the Program with other
 software
    or hardware) infringes such Recipient's patent(s), then such Recipient's
    rights granted under Section 2(b) shall terminate as of the date such
    litigation is filed.

    All Recipient's rights under this Agreement shall terminate if it
    fails to comply with any of the material terms or conditions of this
    Agreement and does not cure such failure in a reasonable period of
    time after becoming aware of such noncompliance. If all Recipient's
    rights under this Agreement terminate, Recipient agrees to cease use
    and distribution of the Program as soon as reasonably practicable.
    However, Recipient's obligations under this Agreement and any licenses
    granted by Recipient relating to the Program shall continue and survive.

    Everyone is permitted to copy and distribute copies of this Agreement,
    but in order to avoid inconsistency the Agreement is copyrighted and
    may only be modified in the following manner. The Agreement Steward
    reserves the right to publish new versions (including revisions) of
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is
 published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---

##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
```

```
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
```

```
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
```

```
    under Section 2) in object code or executable form under the terms of
    Sections 1 and 2 above provided that you also do one of the following:

        a) Accompany it with the complete corresponding machine-readable
        source code, which must be distributed under the terms of Sections 1
        and 2 above on a medium customarily used for software interchange;
or,

        b) Accompany it with a written offer, valid for at least three
        years, to give any third party, for a charge no more than your cost
        of physically performing source distribution, a complete
        machine-readable copy of the corresponding source code, to be
        distributed under the terms of Sections 1 and 2 above on a medium
        customarily used for software interchange; or,

        c) Accompany it with the information you received as to the offer to
        distribute corresponding source code. (This alternative is allowed
        only for noncommercial distribution and only if you received the
        program in object code or executable form with such an offer, in
        accord with Subsection b above.)

    The source code for a work means the preferred form of the work for
    making modifications to it. For an executable work, complete source code
    means all the source code for all modules it contains, plus any
    associated interface definition files, plus the scripts used to control
    compilation and installation of the executable. However, as a special
    exception, the source code distributed need not include anything that is
    normally distributed (in either source or binary form) with the major
    components (compiler, kernel, and so on) of the operating system on
    which the executable runs, unless that component itself accompanies the
    executable.

    If distribution of executable or object code is made by offering access
    to copy from a designated place, then offering equivalent access to copy
    the source code from the same place counts as distribution of the source
    code, even though third parties are not compelled to copy the source
    along with the object code.

    4. You may not copy, modify, sublicense, or distribute the Program
    except as expressly provided under this License. Any attempt otherwise
    to copy, modify, sublicense or distribute the Program is void, and will
    automatically terminate your rights under this License. However, parties
    who have received copies, or rights, from you under this License will
    not have their licenses terminated so long as such parties remain in
    full compliance.

    5. You are not required to accept this License, since you have not
    signed it. However, nothing else grants you permission to modify or
    distribute the Program or its derivative works. These actions are
    prohibited by law if you do not accept this License. Therefore, by
    modifying or distributing the Program (or any work based on the
    Program), you indicate your acceptance of this License to do so, and all
    its terms and conditions for copying, distributing or modifying the
    Program or works based on it.

    6. Each time you redistribute the Program (or any work based on the
    Program), the recipient automatically receives a license from the
    original licensor to copy, distribute or modify the Program subject to
    these terms and conditions. You may not impose any further restrictions
    on the recipients' exercise of the rights granted herein. You are not
    responsible for enforcing compliance by third parties to this License.

    7. If, as a consequence of a court judgment or allegation of patent
    infringement or for any other reason (not limited to patent issues),
```

```
   conditions are imposed on you (whether by court order, agreement or
   otherwise) that contradict the conditions of this License, they do not
   excuse you from the conditions of this License. If you cannot distribute
   so as to satisfy simultaneously your obligations under this License and
   any other pertinent obligations, then as a consequence you may not
   distribute the Program at all. For example, if a patent license would
   not permit royalty-free redistribution of the Program by all those who
   receive copies directly or indirectly through you, then the only way you
   could satisfy both it and this License would be to refrain entirely from
   distribution of the Program.

   If any portion of this section is held invalid or unenforceable under
   any particular circumstance, the balance of the section is intended to
   apply and the section as a whole is intended to apply in other
   circumstances.

   It is not the purpose of this section to induce you to infringe any
   patents or other property right claims or to contest validity of any
   such claims; this section has the sole purpose of protecting the
   integrity of the free software distribution system, which is implemented
   by public license practices. Many people have made generous
   contributions to the wide range of software distributed through that
   system in reliance on consistent application of that system; it is up to
   the author/donor to decide if he or she is willing to distribute
   software through any other system and a licensee cannot impose that
choice.

   This section is intended to make thoroughly clear what is believed to be
   a consequence of the rest of this License.

   8. If the distribution and/or use of the Program is restricted in
   certain countries either by patents or by copyrighted interfaces, the
   original copyright holder who places the Program under this License may
   add an explicit geographical distribution limitation excluding those
   countries, so that distribution is permitted only in or among countries
   not thus excluded. In such case, this License incorporates the
   limitation as if written in the body of this License.

   9. The Free Software Foundation may publish revised and/or new
   versions of the General Public License from time to time. Such new
   versions will be similar in spirit to the present version, but may
   differ in detail to address new problems or concerns.

   Each version is given a distinguishing version number. If the Program
   specifies a version number of this License which applies to it and "any
   later version", you have the option of following the terms and
   conditions either of that version or of any later version published by
   the Free Software Foundation. If the Program does not specify a version
   number of this License, you may choose any version ever published by the
   Free Software Foundation.

   10. If you wish to incorporate parts of the Program into other free
   programs whose distribution conditions are different, write to the
   author to ask for permission. For software which is copyrighted by the
   Free Software Foundation, write to the Free Software Foundation; we
   sometimes make exceptions for this. Our decision will be guided by the
   two goals of preserving the free status of all derivatives of our free
   software and of promoting the sharing and reuse of software generally.

   NO WARRANTY

   11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
   WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
   EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
```

```
   OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
   EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
   ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
   YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
   NECESSARY SERVICING, REPAIR OR CORRECTION.

   12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
   WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
   AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
   DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
   DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
   (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
   INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
   THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
   OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

   If you develop a new program, and you want it to be of the greatest
   possible use to the public, the best way to achieve this is to make it
   free software which everyone can redistribute and change under these
terms.

   To do so, attach the following notices to the program. It is safest to
   attach them to the start of each source file to most effectively convey
   the exclusion of warranty; and each file should have at least the
   "copyright" line and a pointer to where the full notice is found.

       One line to give the program's name and a brief idea of what it
does.
       Copyright (C) <year> <name of author>

       This program is free software; you can redistribute it and/or modify
       it under the terms of the GNU General Public License as published by
       the Free Software Foundation; either version 2 of the License, or
       (at your option) any later version.

       This program is distributed in the hope that it will be useful, but
       WITHOUT ANY WARRANTY; without even the implied warranty of
       MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
       General Public License for more details.

       You should have received a copy of the GNU General Public License
       along with this program; if not, write to the Free Software
       Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1335 USA

   Also add information on how to contact you by electronic and paper mail.

   If the program is interactive, make it output a short notice like this
   when it starts in an interactive mode:

       Gnomovision version 69, Copyright (C) year name of author
       Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
       `show w'. This is free software, and you are welcome to redistribute
       it under certain conditions; type `show c' for details.

   The hypothetical commands `show w' and `show c' should show the
   appropriate parts of the General Public License. Of course, the commands
   you use may be called something other than `show w' and `show c'; they
   could even be mouse-clicks or menu items--whatever suits your program.
```

```
    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.

        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice

    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.




###########################
### 4TH PARTY LICENSES ###
###########################

jakarta.ws.rs:jakarta.ws.rs-api
jakarta.annotation:jakarta.annotation-api
org.glassfish.hk2:osgi-resource-locator
org.glassfish.hk2.external:jakarta.inject


License: EPL 2.0 with secondary license GPL v2 + CPE (see above)



###########################
### 4TH PARTY NOTICES ###
###########################

jakarta.ws.rs:jakarta.ws.rs-api

Notices for the Jakarta RESTful Web Services Project
```

```
This content is produced and maintained by the Jakarta RESTful Web Services
 project.

Project home: https://projects.eclipse.org/projects/ee4j.jaxrs
Trademarks
Jakarta RESTful Web Services is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 (license text above). This
 Source Code may also be made available under the following Secondary
 Licenses when the conditions for such availability set forth in the Eclipse
 Public License v. 2.0 are satisfied: GNU General Public License, version 2
 with the GNU Classpath Exception (license text above).

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jaxrs-api
Third-party Content
This project leverages the following third party content.

javaee-api (7.0)

License: Apache-2.0 AND W3C
JUnit (4.11)

License: Common Public License 1.0
Mockito (2.16.0)

Project: http://site.mockito.org
Source: https://github.com/mockito/mockito/releases/tag/v2.16.0
Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.


----------------------------------------------------------------------

jakarta.annotation:jakarta.annotation-api

# Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

* Project home: https://projects.eclipse.org/projects/ee4j.ca

## Trademarks

Jakarta Annotations™ is a trademark of the Eclipse Foundation.

## Copyright
```

```
All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 (license text above). This Source Code
 may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
GPL-2.0 with Classpath-exception-2.0 (license text above).

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0-only with Classpath-
exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/jakartaee/common-annotations-api

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

----------------------------------------------------------------------

org.glassfish.hk2:osgi-resource-locator



Notices for Eclipse GlassFish
This content is produced and maintained by the Eclipse GlassFish project.

Project home: https://projects.eclipse.org/projects/ee4j.glassfish
Trademarks
Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 (license text above). This
 Source Code may also be made available under the following Secondary
 Licenses when the conditions for such availability set forth in the Eclipse
 Public License v. 2.0 are satisfied: GNU General Public License, version 2
 with the GNU Classpath Exception (license text above).
```

```
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/glassfish-ha-api
https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
https://github.com/eclipse-ee4j/glassfish-shoal
https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
https://github.com/eclipse-ee4j/glassfish-jsftemplating
https://github.com/eclipse-ee4j/glassfish-hk2-extra
Third-party Content
This project leverages the following third party content.

None

Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.


--------------------------------------------------------------------------------



org.glassfish.hk2.external:jakarta.inject

Notices for Eclipse GlassFish
This content is produced and maintained by the Eclipse GlassFish project.

Project home: https://projects.eclipse.org/projects/ee4j.glassfish
Trademarks
Eclipse GlassFish, and GlassFish are trademarks of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 (license text above). This
 Source Code may also be made available under the following Secondary
 Licenses when the conditions for such availability set forth in the Eclipse
 Public License v. 2.0 are satisfied: GNU General Public License, version 2
 with the GNU Classpath Exception (license text above).

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/glassfish-ha-api
https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
https://github.com/eclipse-ee4j/glassfish-shoal
https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
https://github.com/eclipse-ee4j/glassfish-jsftemplating
https://github.com/eclipse-ee4j/glassfish-hk2-extra
https://github.com/eclipse-ee4j/glassfish-hk2
https://github.com/eclipse-ee4j/glassfish-fighterfish
```

```
Third-party Content
This project leverages the following third party content.

None

Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.
```

Provider: Eclipse Foundation / Component(s): jersey-core-client 2.34

```
Oracle elects to use under the terms of the EPL v2.0 license

Eclipse Public License - v 2.0
-------------------------------
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial content Distributed
 under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 Distributed by that particular Contributor. A Contribution "originates"
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do not
 include changes or additions to the Program that are not Modified Works.
"Contributor" means any person or entity that Distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions Distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement or
 any Secondary License (as applicable), including Contributors.
"Derivative Works" shall mean any work, whether in Source Code or other
 form, that is based on (or derived from) the Program and for which the
 editorial revisions, annotations, elaborations, or other modifications
 represent, as a whole, an original work of authorship.
"Modified Works" shall mean any work in Source Code or other form that
 results from an addition to, deletion from, or modification of the contents
 of the Program, including, for purposes of clarity any new file in Source
 Code form that contains any contents of the Program. Modified Works shall
 not include works that contain only declarations, interfaces, types,
 classes, structures, or files of the Program solely in each case in
 order to link to, bind by name, or subclass the Program or Modified Works
 thereof.
"Distribute" means the acts of a) distributing or b) making available in any
 manner that enables the transfer of a copy.
"Source Code" means the form of a Program preferred for making
 modifications, including but not limited to software source code,
 documentation source, and configuration files.
```

```
"Secondary License" means either the GNU General Public License, Version
 2.0, or any later versions of that license, including any exceptions or
 additional permissions as identified by the initial Contributor.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 Distribute and sublicense the Contribution of such Contributor, if any, and
 such Derivative Works.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in Source Code
 or other form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to Distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
e) Notwithstanding the terms of any Secondary License, no Contributor makes
 additional grants to any Recipient (other than those set forth in this
 Agreement) as a result of such Recipient's receipt of the Program under the
 terms of a Secondary License (if permitted under the terms of Section 3).
3. REQUIREMENTS
3.1 If a Contributor Distributes the Program in any form, then:
a) the Program must also be made available as Source Code, in accordance
 with section 3.2, and the Contributor must accompany the Program with a
 statement that the Source Code for the Program is available under this
 Agreement, and informs Recipients how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange; and
b) the Contributor may Distribute the Program under a license different than
 this Agreement, provided that such license:
i) effectively disclaims on behalf of all other Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all other Contributors all liability
 for damages, including direct, indirect, special, incidental and
 consequential damages, such as lost profits;
iii) does not attempt to limit or alter the recipients' rights in the Source
 Code under section 3.2; and
iv) requires any subsequent distribution of the Program by any party to be
 under a license that satisfies the requirements of this section 3.
3.2 When the Program is Distributed as Source Code:
a) it must be made available under this Agreement, or if the Program (i)
 is combined with other material in a separate file or files made available
 under a Secondary License, and (ii) the initial Contributor attached to the
 Source Code the notice described in Exhibit A of this Agreement, then the
```

```
 Program may be made available under the terms of such Secondary Licenses,
 and
b) a copy of this Agreement must be included with each copy of the Program.
3.3 Contributors may not remove or alter any copyright, patent, trademark,
 attribution notices, disclaimers of warranty, or limitations of liability
 ('notices') contained within the Program from any copy of the Program which
 they Distribute, provided that Contributors may add their own appropriate
 notices.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
 PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED
 INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-
INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
 Recipient is solely responsible for determining the appropriateness of
 using and distributing the Program and assumes all risks associated with
 its exercise of rights under this Agreement, including but not limited to
 the risks and costs of program errors, compliance with applicable laws,
 damage to or loss of data, programs or equipment, and unavailability or
 interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE
 ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS),
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
 GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
```

```
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be Distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to Distribute
 the Program (including its Contributions) under the new version.
Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no rights or licenses to the intellectual property of any
 Contributor under this Agreement, whether expressly, by implication,
 estoppel or otherwise. All rights in the Program not expressly granted
 under this Agreement are reserved. Nothing in this Agreement is intended
 to be enforceable by any entity that is not a Contributor or Recipient. No
 third-party beneficiary rights are created under this Agreement.
Exhibit A - Form of Secondary Licenses Notice
"This Source Code may also be made available under the following Secondary
 Licenses when the conditions for such availability set forth in the Eclipse
 Public License, v. 2.0 are satisfied: {name license(s), version(s), and
 exceptions or additional permissions here}."
Simply including a copy of this Agreement, including this Exhibit A is not
 sufficient to license the Source Code under Secondary Licenses.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
# Notice for Jersey
----------------------------------
This content is produced and maintained by the Eclipse Jersey project.
*  Project home: https://projects.eclipse.org/projects/ee4j.jersey
## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.
## Copyright
All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.
## Declared Project Licenses
This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
```

```
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/jersey
## Third-party Content
-----------------------
```

Provider: Eclipse Foundation / Component(s): jersey-inject-hk2 2.34

```
Oracle elects to use under the terms of the EPL 2.0.

jersey-inject-hk2 (org.glassfish.jersey.inject:jersey-hk2)
  Copyright (c) 2017,2021 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
# Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.
*  Project home: https://projects.eclipse.org/projects/ee4j.jersey
## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.
## Copyright
All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.
## Declared Project Licenses
This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/jersey
---------------------------------------------
Eclipse Public License - v 2.0
    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and
  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
```

```
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.
"Contributor" means any person or entity that Distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.
"Program" means the Contributions Distributed in accordance with this
Agreement.
"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.
"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.
"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.
"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.
"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.
"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.
2. GRANT OF RIGHTS
  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.
  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.
  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.
  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
```

```
  the copyright license set forth in this Agreement.
  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).
3. REQUIREMENTS
3.1 If a Contributor Distributes the Program in any form, then:
  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and
  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;
     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;
     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and
     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.
3.2 When the Program is Distributed as Source Code:
  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and
  b) a copy of this Agreement must be included with each copy of
  the Program.
3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
```

```
participate in any such claim at its own expense.
For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.
All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
```

```
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.
Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.
Exhibit A - Form of Secondary Licenses Notice
"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."
  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.
  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.
  You may add additional accurate notices of copyright ownership.
-----------------------------------------------------------------------------

---------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"HK2 API module" (org.glassfish.hk2:hk2-api)
  Copyright (c) 2007,2018 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"HK2 Implementation Utilities" (org.glassfish.hk2:hk2-utils)
  Copyright (c) 2007,2019 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Javassist" (org.javassist:javassist)
  Copyright (C) 1999-2020 by Shigeru Chiba, All rights reserved.
  Copyright (C) 2004 Bill Burke. All Rights Reserved.
  Apache License 2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Eclipse Foundation / Component(s): jetty-util 9.4.49.v20220914

```
This program and the accompanying materials are made available under the
terms of the Eclipse Public License 1.0 which is available at
https://www.eclipse.org/org/documents/epl-1.0/EPL-1.0.txt
or the Apache Software License 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0



                              Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
```

```
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
```

```
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

/**************Notices*******************************/
Notices for Eclipse Jetty
=========================
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:
```

```
  * the Eclipse Public License v. 1.0
    http://www.eclipse.org/legal/epl-v10.html
    SPDX-License-Identifier: EPL-1.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0.
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

If ALPN is used to negotiate HTTP/2 connections, then the following
distribution may be included in the distribution or downloaded when ALPN
module is selected. These artifacts replace/modify OpenJDK classes.
The modifications are hosted at github and both modified and original
are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

 * java.sun.security.ssl

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
```

```
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
```

Provider: Eclipse Public License / Component(s): camel-snake-kebab 0.4.0

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).

2.  All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim
 all warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose.  In
 addition, such Contributors are not liable for any damages, including
 direct, indirect, special, incidental and consequential damages, such as
 lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4.  {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5.  {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement.  Oracle is solely responsible for any representations
 and warranties contained therein.


THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;
```

```
where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates' from
a Contributor if it was added to the Program by such Contributor itself or
anyone acting on such Contributor's behalf. Contributions do not include
additions to the Program which: (i) are separate modules of software
distributed in conjunction with the Program under their own license
agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free copyright license to
reproduce, prepare derivative works of, publicly display, publicly perform,
distribute and sublicense the Contribution of such Contributor, if any, and
such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free patent license under
Licensed Patents to make, use, sell, offer to sell, import and otherwise
transfer the Contribution of such Contributor, if any, in source code and
object code form. This patent license shall apply to the combination of the
Contribution and the Program if, at the time the Contribution is added by
 the
Contributor, such addition of the Contribution causes such combination to be
covered by the Licensed Patents. The patent license shall not apply to any
other combinations which include the Contribution. No hardware per se is
licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
to its Contributions set forth herein, no assurances are provided by any
Contributor that the Program does not infringe the patent or other
intellectual property rights of any other entity. Each Contributor disclaims
any liability to Recipient for claims brought by any other entity based on
infringement of intellectual property rights or otherwise. As a condition to
exercising the rights and licenses granted hereunder, each Recipient hereby
assumes sole responsibility to secure any other intellectual property rights
needed, if any. For example, if a third party patent license is required to
allow Recipient to distribute the Program, it is Recipient's responsibility
to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
copyright rights in its Contribution, if any, to grant the copyright license
set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:
```

```
i) effectively disclaims on behalf of all Contributors all warranties and
conditions, express and implied, including warranties or conditions of title
and non-infringement, and implied warranties or conditions of
 merchantability
and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
damages, including direct, indirect, special, incidental and consequential
damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
Contributor, and informs licensees how to obtain it in a reasonable manner
 on
or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
the Program.

Each Contributor must identify itself as the originator of its Contribution,
if any, in a manner that reasonably allows subsequent Recipients to identify
the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
 who
includes the Program in a commercial product offering should do so in a
manner which does not create potential liability for other Contributors.
Therefore, if a Contributor includes the Program in a commercial product
offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend
and indemnify every other Contributor ("Indemnified Contributor") against
 any
losses, damages and costs (collectively "Losses") arising from claims,
lawsuits and other legal actions brought by a third party against the
Indemnified Contributor to the extent caused by the acts or omissions of
 such
Commercial Contributor in connection with its distribution of the Program in
a commercial product offering. The obligations in this section do not apply
to any claims or Losses relating to any actual or alleged intellectual
property infringement. In order to qualify, an Indemnified Contributor must:
a) promptly notify the Commercial Contributor in writing of such claim, and
b) allow the Commercial Contributor tocontrol, and cooperate with the
Commercial Contributor in, the defense and any related settlement
negotiations. The Indemnified Contributor may participate in any such claim
at its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If
that Commercial Contributor then makes performance claims, or offers
warranties related to Product X, those performance claims and warranties are
such Commercial Contributor's responsibility alone. Under this section, the
```

```
Commercial Contributor would have to defend claims against the other
Contributors related to those performance claims and warranties, and if a
court requires any other Contributor to pay any damages as a result, the
Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all risks
associated with its exercise of rights under this Agreement , including but
not limited to the risks and costs of program errors, compliance with
applicable laws, damage to or loss of data, programs or equipment, and
unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION
LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY
OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of the
remainder of the terms of this Agreement, and without further action by the
parties hereto, such provision shall be reformed to the minimum extent
necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program itself
(excluding combinations of the Program with other software or hardware)
infringes such Recipient's patent(s), then such Recipient's rights granted
under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
does not cure such failure in a reasonable period of time after becoming
aware of such noncompliance. If all Recipient's rights under this Agreement
terminate, Recipient agrees to cease use and distribution of the Program as
soon as reasonably practicable. However, Recipient's obligations under this
Agreement and any licenses granted by Recipient relating to the Program
 shall
continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right
 to
publish new versions (including revisions) of this Agreement from time to
time. No one other than the Agreement Steward has the right to modify this
Agreement. The Eclipse Foundation is the initial Agreement Steward. The
Eclipse Foundation may assign the responsibility to serve as the Agreement
Steward to a suitable separate entity. Each new version of the Agreement
 will
```

```
be given a distinguishing version number. The Program (including
Contributions) may always be distributed subject to the version of the
Agreement under which it was received. In addition, after a new version of
the Agreement is published, Contributor may elect to distribute the Program
(including its Contributions) under the new version. Except as expressly
stated in Sections 2(a) and 2(b) above, Recipient receives no rights or
licenses to the intellectual property of any Contributor under this
Agreement, whether expressly, by implication, estoppel or otherwise. All
rights in the Program not expressly granted under this Agreement are
reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury
 trial
in any resulting litigation.
```

Provider: Eclipse Public License / Component(s): cljs-time 0.3.14

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).

2.  All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim
 all warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose.  In
 addition, such Contributors are not liable for any damages, including
 direct, indirect, special, incidental and consequential damages, such as
 lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4.  {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5.  {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement.  Oracle is solely responsible for any representations
 and warranties contained therein.

Copyright © 2013-2016 Andrew Mcveigh
Distributed under the Eclipse Public License, the same as Clojure.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
```

```
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
```

```
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
```

```
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Eclipse Public License / Component(s): cljs-uuid-utils 1.0.2

```
Copyright (C) 2012 Frank Siebenlist and Lucas Bradstreet
Distributed under the Eclipse Public License, the same as Clojure.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
```

```
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
```

```
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
```

```
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Eclipse Public License / Component(s): clojure-complete 0.2.4

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).

2.  All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim
 all warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose.  In
 addition, such Contributors are not liable for any damages, including
 direct, indirect, special, incidental and consequential damages, such as
 lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4.  {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5.  {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement.  Oracle is solely responsible for any representations
 and warranties contained therein.


clojure-complete/LICENSE
42363e0 on Jun 22, 2010
@ninjudd ninjudd initial commit
228 lines (184 sloc) 11 KB
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF
```

```
THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and
are distributed by that particular Contributor. A Contribution
'originates' from a Contributor if it was added to the Program by such
Contributor itself or anyone acting on such Contributor's
behalf. Contributions do not include additions to the Program which:
(i) are separate modules of software distributed in conjunction with
the Program under their own license agreement, and (ii) are not
derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor
which are necessarily infringed by the use or sale of its Contribution
alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this
Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free copyright
license to reproduce, prepare derivative works of, publicly display,
publicly perform, distribute and sublicense the Contribution of such
Contributor, if any, and such derivative works, in source code and
object code form.

b) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free patent
license under Licensed Patents to make, use, sell, offer to sell,
import and otherwise transfer the Contribution of such Contributor, if
any, in source code and object code form. This patent license shall
apply to the combination of the Contribution and the Program if, at
the time the Contribution is added by the Contributor, such addition
of the Contribution causes such combination to be covered by the
Licensed Patents. The patent license shall not apply to any other
combinations which include the Contribution. No hardware per se is
licensed hereunder.

c) Recipient understands that although each Contributor grants the
licenses to its Contributions set forth herein, no assurances are
provided by any Contributor that the Program does not infringe the
patent or other intellectual property rights of any other entity. Each
Contributor disclaims any liability to Recipient for claims brought by
any other entity based on infringement of intellectual property rights
or otherwise. As a condition to exercising the rights and licenses
```

```
granted hereunder, each Recipient hereby assumes sole responsibility
to secure any other intellectual property rights needed, if any. For
example, if a third party patent license is required to allow
Recipient to distribute the Program, it is Recipient's responsibility
to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
copyright rights in its Contribution, if any, to grant the copyright
license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form
under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
and conditions, express and implied, including warranties or
conditions of title and non-infringement, and implied warranties or
conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability
for damages, including direct, indirect, special, incidental and
consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are
offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
Contributor, and informs licensees how to obtain it in a reasonable
manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained
within the Program.

Each Contributor must identify itself as the originator of its
Contribution, if any, in a manner that reasonably allows subsequent
Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain
responsibilities with respect to end users, business partners and the
like. While this license is intended to facilitate the commercial use
of the Program, the Contributor who includes the Program in a
commercial product offering should do so in a manner which does not
create potential liability for other Contributors. Therefore, if a
Contributor includes the Program in a commercial product offering,
such Contributor ("Commercial Contributor") hereby agrees to defend
and indemnify every other Contributor ("Indemnified Contributor")
against any losses, damages and costs (collectively "Losses") arising
from claims, lawsuits and other legal actions brought by a third party
against the Indemnified Contributor to the extent caused by the acts
or omissions of such Commercial Contributor in connection with its
distribution of the Program in a commercial product offering. The
```

obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor tocontrol, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's

```
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably
practicable. However, Recipient's obligations under this Agreement and
any licenses granted by Recipient relating to the Program shall
continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign
the responsibility to serve as the Agreement Steward to a suitable
separate entity. Each new version of the Agreement will be given a
distinguishing version number. The Program (including Contributions)
may always be distributed subject to the version of the Agreement
under which it was received. In addition, after a new version of the
Agreement is published, Contributor may elect to distribute the
Program (including its Contributions) under the new version. Except as
expressly stated in Sections 2(a) and 2(b) above, Recipient receives
no rights or licenses to the intellectual property of any Contributor
under this Agreement, whether expressly, by implication, estoppel or
otherwise. All rights in the Program not expressly granted under this
Agreement are reserved.

This Agreement is governed by the laws of the State of Washington and
the intellectual property laws of the United States of America. No
party to this Agreement will bring a legal action under this Agreement
more than one year after the cause of action arose. Each party waives
its rights to a jury trial in any resulting litigation.

Contact GitHub API Training Shop Blog About

© 2016 GitHub, Inc. Terms Privacy Security Status Help
```

Provider: Eclipse Public License / Component(s): datascript 0.15.3

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.

2.  All past Contributors to datascript disclaim all warranties and
 conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose.  In addition, such
 Contributors are not liable for any damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

Copyright © 2014-2015 Nikita Prokopov
Licensed under Eclipse Public License (see LICENSE).


Skip to content
Personal
Open source
```

```
Business
Explore
Pricing
Blog
Support
This repository

142
2,208

137

tonsky/datascript
Code
Issues 21
Pull requests 4
Wiki
Pulse
Graphs
datascript/LICENSE
0577f15 on Apr 24, 2014
@tonsky tonsky ns renamed
204 lines (174 sloc) 11.2 KB
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates'
from a Contributor if it was added to the Program by such Contributor
itself or anyone acting on such Contributor's behalf. Contributions do not
include additions to the Program which: (i) are separate modules of
software distributed in conjunction with the Program under their own
license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free copyright license to
reproduce, prepare derivative works of, publicly display, publicly
```

```
perform, distribute and sublicense the Contribution of such Contributor,
if any, and such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free patent license under
Licensed Patents to make, use, sell, offer to sell, import and otherwise
transfer the Contribution of such Contributor, if any, in source code and
object code form. This patent license shall apply to the combination of
the Contribution and the Program if, at the time the Contribution is
added by the Contributor, such addition of the Contribution causes such
combination to be covered by the Licensed Patents. The patent license
shall not apply to any other combinations which include the Contribution.
No hardware per se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
to its Contributions set forth herein, no assurances are provided by any
Contributor that the Program does not infringe the patent or other
intellectual property rights of any other entity. Each Contributor
disclaims any liability to Recipient for claims brought by any other
entity based on infringement of intellectual property rights or
otherwise. As a condition to exercising the rights and licenses granted
hereunder, each Recipient hereby assumes sole responsibility to secure
any other intellectual property rights needed, if any. For example, if a
third party patent license is required to allow Recipient to distribute
the Program, it is Recipient's responsibility to acquire that license
before distributing the Program.
d) Each Contributor represents that to its knowledge it has sufficient
copyright rights in its Contribution, if any, to grant the copyright
license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
and conditions, express and implied, including warranties or
conditions of title and non-infringement, and implied warranties or
conditions of merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
damages, including direct, indirect, special, incidental and
consequential damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are
offered by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
Contributor, and informs licensees how to obtain it in a reasonable
manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained
within the Program.

Each Contributor must identify itself as the originator of its Contribution,
if
any, in a manner that reasonably allows subsequent Recipients to identify
 the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
```

respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must:
a) promptly notify the Commercial Contributor in writing of such claim, and
b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

```
If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of the
remainder of the terms of this Agreement, and without further action by the
parties hereto, such provision shall be reformed to the minimum extent
necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program itself
(excluding combinations of the Program with other software or hardware)
infringes such Recipient's patent(s), then such Recipient's rights granted
under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
 does
not cure such failure in a reasonable period of time after becoming aware of
such noncompliance. If all Recipient's rights under this Agreement
 terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient's obligations under this
 Agreement
and any licenses granted by Recipient relating to the Program shall continue
and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right
 to
publish new versions (including revisions) of this Agreement from time to
time. No one other than the Agreement Steward has the right to modify this
Agreement. The Eclipse Foundation is the initial Agreement Steward. The
Eclipse Foundation may assign the responsibility to serve as the Agreement
Steward to a suitable separate entity. Each new version of the Agreement
 will
be given a distinguishing version number. The Program (including
Contributions) may always be distributed subject to the version of the
Agreement under which it was received. In addition, after a new version of
 the
Agreement is published, Contributor may elect to distribute the Program
(including its Contributions) under the new version. Except as expressly
stated in Sections 2(a) and 2(b) above, Recipient receives no rights or
licenses to the intellectual property of any Contributor under this
 Agreement,
whether expressly, by implication, estoppel or otherwise. All rights in the
Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury
 trial in
any resulting litigation.

Contact GitHub API Training Shop Blog About

© 2016 GitHub, Inc. Terms Privacy Security Status Help
```

Provider: Eclipse Public License / Component(s): encore 2.82.1

```
product that includes the EPL code:
```

```
1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).

2.  All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim
 all warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose.  In
 addition, such Contributors are not liable for any damages, including
 direct, indirect, special, incidental and consequential damages, such as
 lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4.  {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5.  {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement.  Oracle is solely responsible for any representations
 and warranties contained therein.

Distributed under the EPL v1.0
Copyright © 2014-2016 Peter Taoussanis.
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF
THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and
are distributed by that particular Contributor. A Contribution
'originates' from a Contributor if it was added to the Program by such
Contributor itself or anyone acting on such Contributor's
behalf. Contributions do not include additions to the Program which:
(i) are separate modules of software distributed in conjunction with
the Program under their own license agreement, and (ii) are not
derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor
which are necessarily infringed by the use or sale of its Contribution
alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this
Agreement.
```

```
"Recipient" means anyone who receives the Program under this
Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free copyright
license to reproduce, prepare derivative works of, publicly display,
publicly perform, distribute and sublicense the Contribution of such
Contributor, if any, and such derivative works, in source code and
object code form.

b) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free patent
license under Licensed Patents to make, use, sell, offer to sell,
import and otherwise transfer the Contribution of such Contributor, if
any, in source code and object code form. This patent license shall
apply to the combination of the Contribution and the Program if, at
the time the Contribution is added by the Contributor, such addition
of the Contribution causes such combination to be covered by the
Licensed Patents. The patent license shall not apply to any other
combinations which include the Contribution. No hardware per se is
licensed hereunder.

c) Recipient understands that although each Contributor grants the
licenses to its Contributions set forth herein, no assurances are
provided by any Contributor that the Program does not infringe the
patent or other intellectual property rights of any other entity. Each
Contributor disclaims any liability to Recipient for claims brought by
any other entity based on infringement of intellectual property rights
or otherwise. As a condition to exercising the rights and licenses
granted hereunder, each Recipient hereby assumes sole responsibility
to secure any other intellectual property rights needed, if any. For
example, if a third party patent license is required to allow
Recipient to distribute the Program, it is Recipient's responsibility
to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
copyright rights in its Contribution, if any, to grant the copyright
license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form
under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
and conditions, express and implied, including warranties or
conditions of title and non-infringement, and implied warranties or
conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability
for damages, including direct, indirect, special, incidental and
consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are
offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
Contributor, and informs licensees how to obtain it in a reasonable
```

```
manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained
within the Program.

Each Contributor must identify itself as the originator of its
Contribution, if any, in a manner that reasonably allows subsequent
Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain
responsibilities with respect to end users, business partners and the
like. While this license is intended to facilitate the commercial use
of the Program, the Contributor who includes the Program in a
commercial product offering should do so in a manner which does not
create potential liability for other Contributors. Therefore, if a
Contributor includes the Program in a commercial product offering,
such Contributor ("Commercial Contributor") hereby agrees to defend
and indemnify every other Contributor ("Indemnified Contributor")
against any losses, damages and costs (collectively "Losses") arising
from claims, lawsuits and other legal actions brought by a third party
against the Indemnified Contributor to the extent caused by the acts
or omissions of such Commercial Contributor in connection with its
distribution of the Program in a commercial product offering. The
obligations in this section do not apply to any claims or Losses
relating to any actual or alleged intellectual property
infringement. In order to qualify, an Indemnified Contributor must: a)
promptly notify the Commercial Contributor in writing of such claim,
and b) allow the Commercial Contributor tocontrol, and cooperate with
the Commercial Contributor in, the defense and any related settlement
negotiations. The Indemnified Contributor may participate in any such
claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those
performance claims and warranties, and if a court requires any other
Contributor to pay any damages as a result, the Commercial Contributor
must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS
PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY
WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY
OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely
responsible for determining the appropriateness of using and
distributing the Program and assumes all risks associated with its
exercise of rights under this Agreement , including but not limited to
the risks and costs of program errors, compliance with applicable
laws, damage to or loss of data, programs or equipment, and
unavailability or interruption of operations.
```

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of Washington and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Provider: Eclipse Public License / Component(s): piggieback 0.2.1

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:
1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).
2.  All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim
 all warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose.  In
 addition, such Contributors are not liable for any damages, including
 direct, indirect, special, incidental and consequential damages, such as
 lost profits.
3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.
4.  {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}
5.  {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement.  Oracle is solely responsible for any representations
 and warranties contained therein. Copyright © 2012-2015 Chas Emerick and
 other contributors.

Distributed under the Eclipse Public License, the same as Clojure.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
```

```
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
```

```
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
```

```
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Eclipse Public License / Component(s): ring.middleware.logger 0.5.0

```
Copyright (C) 2012-2014 Paul Legato. Distributed under the Eclipse Public
 License, the same as Clojure.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
```

```
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
```

```
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.

onelog 0.4.5
```

```
Copyright © 2013-2014 Paul Legato.
Distributed under the Eclipse Public License, the same as Clojure
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
```

```
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
```

```
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
clansi 1.3.0
Copyright (c) 2009-2014 Amsterdam Clojurians
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
clj-logging-config 1.9.10
Copyright (c) Malcolm Sparks. All rights reserved.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
```

```
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
```

```
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
clansi 1.3.0
Copyright (c) 2009-2014 Amsterdam Clojurians
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
```

```
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
mapply 1.0.0
Copyright © 2013 ToBeReplaced
Distributed under the Eclipse Public License, the same as Clojure. The
 license can be found at epl-v10.html in the root of this distribution.
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
clj-logging-config 1.9.10
Copyright (c) Malcolm Sparks. All rights reserved.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
```

```
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
```

```
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
```

```
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Eclipse Public License / Component(s): secretary 1.2.3

```
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
```

```
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION
```

```
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
```

```
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Eclipse Public License / Component(s): timbre 4.7.4

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).

2.  All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim
 all warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose.  In
 addition, such Contributors are not liable for any damages, including
 direct, indirect, special, incidental and consequential damages, such as
 lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.
```

```
4.  {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5.  {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement.  Oracle is solely responsible for any representations
 and warranties contained therein.


Distributed under the EPL v1.0
Copyright © 2015-2016 Peter Taoussanis.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
```

```
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
```

```
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.


pretty 0.1.17
The MIT License (MIT)

Copyright (c) 2013-2015, Jon Schlinkert.
```

```
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Eclipse Public License / Component(s): url 0.1.1

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).

2.  All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim
 all warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose.  In
 addition, such Contributors are not liable for any damages, including
 direct, indirect, special, incidental and consequential damages, such as
 lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4.  {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5.  {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement.  Oracle is solely responsible for any representations
 and warranties contained therein.

{Reproduce EPL as follows:}

Copyright ©2012 Chas Emerick and other contributors
Distributed under the Eclipse Public License, the same as Clojure.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
```

```
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents " mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
```

```
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
```

```
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is
 filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Edgar Espina / Component(s): Handlebars 4.2.1

```
Copyright: John Resig, Yehuda Katz, Jörn Zaefferer, Paul McLanahan
License: Apache 2.0


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
```

```
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

 ------------- Separator -------------
```

```
Dependency: org.slf4j:slf4j-api

Copyright: QOS.ch
License: MIT

Copyright <YEAR> <COPYRIGHT HOLDER>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the “Software”), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: EditorConfig Team / Component(s): EditorConfig extension for VS Code 0.16.6

```
Copyright (c) EditorConfig Team

All rights reserved.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software,
 and to
permit persons to whom the Software is furnished to do so, subject to the
 following
conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

```
THIRD-PARTY SOFTWARE NOTICES AND INFORMATION
Do Not Translate or Localize

This project incorporates material from the project(s) listed below
 (collectively,
“Third Party Code”).
The EditorConfig Team is not the original author of the Third Party Code.
 The original
copyright notice and license
under which the EditorConfig Team received such Third Party Code are set out
 below. This
Third Party Code is licensed
to you under their original license terms set forth below.  The EditorConfig
 Team
reserves all other rights not
expressly granted, whether by implication, estoppel or otherwise.

---------------- Separator ----------------
vscode-editorconfig https://github.com/Microsoft/vscode-editorconfig

Copyright (c) Microsoft Corporation

All rights reserved.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
---------------- Separator ----------------
```

Provider: Encode OSS Ltd / Component(s): httpx 0.27.2

```
3rd Party License

BSD 3-Clause "New" or "Revised" License

License content

Copyright © 2019, Encode OSS Ltd. All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



4th Party Dependencies

------------------------------------------------------------------------------------------

- Anyio

License

MIT License

License content

The MIT License (MIT)

Copyright (c) 2018 Alex Grönholm

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
--------------------------------------------------------------------------------
- Certifi

License content

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

--------------------------------------------------------------------------------
- httpcore

License

BSD 3-Clause "New" or "Revised" License

License content

Copyright © 2019, Encode OSS Ltd. All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
- Idna
```

```
License

BSD 3-Clause "New" or "Revised" License

License content

Copyright © 2019, Encode OSS Ltd. All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


-------------------------------------------------------------------------------------------
- Sniffio

This software is made available under the terms of *either* of the
licenses found in LICENSE.APACHE2 or LICENSE.MIT. Contributions to are
made under the terms of *both* these licenses.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Erik Rose / Component(s): more-itertools 7.0.0

```
Copyright (c) 2012 Erik Rose

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: eugene yokota / Component(s): scopt 3.7.0

```
This project is licensed under the MIT license.

Copyright (c) scopt contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Evan Mezeske / Component(s): cljsbuild 1.1.4

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1. The following files are available in source code form under the Eclipse
 Public License at: http://www.oracle.com/technetwork/opensource/opensource-
code-1366576.html. (The EPL license is reproduced below).

2. All past Contributors to cljsbuild disclaim all warranties and
 conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose. In addition, such
 Contributors are not liable for any damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.

3. Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4. {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5. {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement. Oracle is solely responsible for any representations and
 warranties contained therein.


Source Copyright © Evan Mezeske, 2011-2013. Released under the Eclipse Public
 License - v 1.0.
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF
THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and
are distributed by that particular Contributor. A Contribution
'originates' from a Contributor if it was added to the Program by such
Contributor itself or anyone acting on such Contributor's
behalf. Contributions do not include additions to the Program which:
(i) are separate modules of software distributed in conjunction with
the Program under their own license agreement, and (ii) are not
derivative works of the Program.
```

```
"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor
which are necessarily infringed by the use or sale of its Contribution
alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this
Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free copyright
license to reproduce, prepare derivative works of, publicly display,
publicly perform, distribute and sublicense the Contribution of such
Contributor, if any, and such derivative works, in source code and
object code form.

b) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free patent
license under Licensed Patents to make, use, sell, offer to sell,
import and otherwise transfer the Contribution of such Contributor, if
any, in source code and object code form.  This patent license shall
apply to the combination of the Contribution and the Program if, at
the time the Contribution is added by the Contributor, such addition
of the Contribution causes such combination to be covered by the
Licensed Patents. The patent license shall not apply to any other
combinations which include the Contribution. No hardware per se is
licensed hereunder.

c) Recipient understands that although each Contributor grants the
licenses to its Contributions set forth herein, no assurances are
provided by any Contributor that the Program does not infringe the
patent or other intellectual property rights of any other entity. Each
Contributor disclaims any liability to Recipient for claims brought by
any other entity based on infringement of intellectual property rights
or otherwise. As a condition to exercising the rights and licenses
granted hereunder, each Recipient hereby assumes sole responsibility
to secure any other intellectual property rights needed, if any. For
example, if a third party patent license is required to allow
Recipient to distribute the Program, it is Recipient's responsibility
to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
copyright rights in its Contribution, if any, to grant the copyright
license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form
under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
and conditions, express and implied, including warranties or
conditions of title and non-infringement, and implied warranties or
conditions of merchantability and fitness for a particular purpose;
```

```
ii) effectively excludes on behalf of all Contributors all liability
for damages, including direct, indirect, special, incidental and
consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are
offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
Contributor, and informs licensees how to obtain it in a reasonable
manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained
within the Program.

Each Contributor must identify itself as the originator of its
Contribution, if any, in a manner that reasonably allows subsequent
Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain
responsibilities with respect to end users, business partners and the
like. While this license is intended to facilitate the commercial use
of the Program, the Contributor who includes the Program in a
commercial product offering should do so in a manner which does not
create potential liability for other Contributors. Therefore, if a
Contributor includes the Program in a commercial product offering,
such Contributor ("Commercial Contributor") hereby agrees to defend
and indemnify every other Contributor ("Indemnified Contributor")
against any losses, damages and costs (collectively "Losses") arising
from claims, lawsuits and other legal actions brought by a third party
against the Indemnified Contributor to the extent caused by the acts
or omissions of such Commercial Contributor in connection with its
distribution of the Program in a commercial product offering.  The
obligations in this section do not apply to any claims or Losses
relating to any actual or alleged intellectual property
infringement. In order to qualify, an Indemnified Contributor must: a)
promptly notify the Commercial Contributor in writing of such claim,
and b) allow the Commercial Contributor tocontrol, and cooperate with
the Commercial Contributor in, the defense and any related settlement
negotiations. The Indemnified Contributor may participate in any such
claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those
performance claims and warranties, and if a court requires any other
Contributor to pay any damages as a result, the Commercial Contributor
must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS
PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
```

```
KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY
WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY
OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely
responsible for determining the appropriateness of using and
distributing the Program and assumes all risks associated with its
exercise of rights under this Agreement , including but not limited to
the risks and costs of program errors, compliance with applicable
laws, damage to or loss of data, programs or equipment, and
unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING
WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR
DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED
HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that
the Program itself (excluding combinations of the Program with other
software or hardware) infringes such Recipient's patent(s), then such
Recipient's rights granted under Section 2(b) shall terminate as of
the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's

clj-stacktrace 0.2.5:
Copyright © 2009-2013 Mark McGranaghan and contributors.
Released under an MIT license.
The MIT License (MIT)
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

commons-compress 1.3:
The MIT License (MIT)
Copyright (c) 2014 Chris Talkington, contributors.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Evan Phoenix and contributors / Component(s): Rubinius 2.11

```
Copyright (c) 2007-2015, Evan Phoenix and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of Rubinius nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SU
```

Provider: Evan Zhou / Component(s): freecache 1.2.0

```
Copyright (c) 2015 Ewan Chou.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
```

```
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

4-th party
------------------------
https://github.com/cespare/xxhash/blob/main/LICENSE.txt
------------------------


Copyright (c) 2016 Caleb Spare

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Everit Kft / Component(s): JSON Schema 1.14.0

```
Copyright: erosb

 License: Apache 2.0
  ------- Dependency - com.damnhandy:handy-uri-templates

 Copyright: GitHub

 License: Apache 2.0
Copyright (c) 2012, Ryan J. McDonough
All rights reserved.

=====================================================================
Licensed under the Apache License, Version 2.0. Text as follows.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
```

```
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------- Dependency - com.google.re2j:re2j

 Copyright: Google

 License: BSD 3-Clause
This is a work derived from Russ Cox's RE2 in Go, whose license
http://golang.org/LICENSE is as follows:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.

   * Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
     distribution.

   * Neither the name of Google Inc. nor the names of its contributors
     may be used to endorse or promote products derived from this
     software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------- Dependency - commons-beanutils:commons-beanutils

 Copyright: The Apache Software Foundation

 License: Apache 2.0

 ------------- Notices -------------
Apache Commons BeanUtils
Copyright 2000-2008 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).


------- Dependency - commons-collections:commons-collections

 Copyright: commons-collections

 License: Apache 2.0
```

```
 ------------- Notices -------------
Apache Commons Collections
Copyright 2001-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


------- Dependency - commons-digester:commons-digester

 Copyright: The Apache Software Foundation

 License: Apache 2.0

 ------------- Notices -------------
Apache Commons Digester
Copyright 2001-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


------- Dependency - commons-logging:commons-logging

 Copyright: The Apache Software Foundation

 License: Apache 2.0

 ------------- Notices -------------
Apache Commons Logging
Copyright 2003-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



------- Dependency - commons-validator:commons-validator

 Copyright: The Apache Software Foundation

 License: Apache 2.0

 ------------- Notices -------------
Apache Commons Validator
Copyright 2001-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


------- Dependency - joda-time:joda-time

 Copyright: JodaOrg

 License: Apache 2.0

 ------------- Notices -------------
===============================================================================
= NOTICE file corresponding to section 4d of the Apache License Version 2.0
 =
===============================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).
```

```
------- Dependency - org.json:json

 Copyright: JSON.org

 License: MIT

Copyright (c) 2002 JSON.org

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

The Software shall be used for Good, not Evil.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



 === Entry created by OSCS on 2022-02-25T23:41:44.727
```

F to G

Provider: fabric8io / Component(s): generator-annotations 6.13.1

```
Copyright: Red Hat, Inc.
generator-annotations
License: Apache 2.0

 ./license.txt

                                 Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------
```

Provider: Fabrice Bellard / Component(s): qemu-img 1.5.3

```
* QEMU disk image utility
 *
 * Copyright (c) 2003-2008 Fabrice Bellard
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 copy
 * of this software and associated documentation files (the "Software"), to
 deal
 * in the Software without restriction, including without limitation the
 rights
 * to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 * copies of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 * THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 * THE SOFTWARE.

*/
```

Provider: Facebook, Inc / Component(s): jemalloc 5.3.0

```
Unless otherwise specified, files in the jemalloc source distribution are
subject to the following license:
--------------------------------------------------------------------------------
Copyright (C) 2002-present Jason Evans <jasone@canonware.com>.
All rights reserved.
Copyright (C) 2007-2012 Mozilla Foundation.  All rights reserved.
Copyright (C) 2009-present Facebook, Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice(s),
   this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
 notice(s),
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER(S) ``AS IS'' AND ANY
 EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO
EVENT SHALL THE COPYRIGHT HOLDER(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
 OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
```

```
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
```

Provider: Facebook, Inc / Component(s): Prop-Types 15.6.1

```
MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
encoding 0.1.12 (MIT)
Copyright (c) 2012-2014 Andris Reinman
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
ua-parser-js 0.7.17 (GPL-2.0 OR MIT)
Copyright © 2012-2016 Faisal Salman >
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
---------separator---------
iconv-lite 0.4.19 (MIT)
Copyright (c) 2011 Alexander Shtuchkin
---------separator---------
```

```
fbjs 0.8.16 (MIT)
Copyright (c) 2013-present, Facebook, Inc.
---------separator---------
loose-envify 1.3.1 (MIT)
Copyright (c) 2015 Andres Suarez
---------separator---------
node-fetch 1.7.3 (MIT)
Copyright (c) 2016 David Frank
---------separator---------
core-js 1.2.7 (MIT)
Copyright (c) 2015 Denis Pushkarev
---------separator---------
asap 2.0.6 (MIT)
Copyright 2009-2014 Contributors. All rights reserved.
---------separator---------
isomorphic-fetch 2.2.1 (MIT)
Copyright (c) 2015 Matt Andrews
---------separator---------
whatwg-fetch 2.0.3 (MIT)
Copyright (c) 2014-2016 GitHub, Inc.
---------separator---------
promise 7.3.1 (MIT)
Copyright (c) 2014 Forbes Lindesay
---------separator---------
is-stream 1.1.0 (MIT)
Copyright (c) Sindre Sorhus (sindresorhus.com)
---------separator---------
setimmediate 1.0.5 (MIT)
Copyright (c) 2012 Barnesandnoble.com, llc, Donavon West, and Domenic
 Denicola
---------separator---------
object-assign 4.1.1 (MIT)
Copyright (c) Sindre Sorhus (sindresorhus.com)
---------separator---------
js-tokens 3.0.2 (MIT)
Copyright (c) 2014, 2015, 2016, 2017 Simon Lydell
---------separator---------
iconv-lite 0.4.19
fbjs 0.8.16
loose-envify 1.3.1
node-fetch 1.7.3
core-js 1.2.7
asap 2.0.6
isomorphic-fetch 2.2.1
whatwg-fetch 2.0.3
promise 7.3.1
is-stream 1.1.0
setimmediate 1.0.5
object-assign 4.1.1
js-tokens 3.0.2

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
```

```
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Facebook, Inc / Component(s): React 16.13.1

```
react@16.13.1
MIT
MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


js-tokens@4.0.0
MIT
The MIT License (MIT)

Copyright (c) 2014, 2015, 2016, 2017, 2018 Simon Lydell

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

```
loose-envify@1.4.0
MIT
The MIT License (MIT)

Copyright (c) 2015 Andres Suarez <zertosh@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


object-assign@4.1.1
MIT
The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


prop-types@15.7.2
MIT
MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


react-is@16.13.1
MIT
MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Facebook, Inc / Component(s): react 16.3.2

```
React 16.3.2

MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------

asap version 2.0.6

Copyright 2009-2014 Contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

----------------------------------

core-js version 1.2.7

Copyright (c) 2014-2018 Denis Pushkarev

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
```

```
THE SOFTWARE.

----------------------------------

encoding version 0.1.12

Copyright (c) 2012-2014 Andris Reinman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------

fbjs version 0.8.17

MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------

iconv-lite version 0.4.23

Copyright (c) 2011 Alexander Shtuchkin

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
```

```
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------

is-stream version 1.1.0

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------

isomorphic-fetch version 2.2.1

The MIT License (MIT)

Copyright (c) 2015 Matt Andrews

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------

js-tokens version 4.0.0

The MIT License (MIT)

Copyright (c) 2014, 2015, 2016, 2017, 2018 Simon Lydell

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------

loose-envify version 1.4.0

The MIT License (MIT)

Copyright (c) 2015 Andres Suarez <zertosh@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
```

```
THE SOFTWARE.

----------------------------------

node-fetch version 1.7.3

The MIT License (MIT)

Copyright (c) 2016 David Frank

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------

object-assign version 4.1.1

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------

promise version 7.3.1

Copyright (c) 2014 Forbes Lindesay
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------

prop-types version 15.6.2

MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------

safer-buffer version 2.1.2

MIT License

Copyright (c) 2018 Nikita Skovoroda <chalkerx@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------

setimmediate version 1.0.5

Copyright (c) 2012 Barnesandnoble.com, llc, Donavon West, and Domenic
 Denicola

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------

ua-parser-js version 0.7.18

Dual licensed under GPLv2 or MIT

Oracle elects the MIT

Copyright © 2012-2018 Faisal Salman <f@faisalman.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
```

```
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------------

whatwg-fetch version 2.0.4

Copyright (c) 2014-2016 GitHub, Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Facebook, Inc / Component(s): react 16.4.0

```
The reactjs library includes following npm modules: react, react-dom,
simple-cache-provider, create-subscription, react-art, react-is
--------------------------------------------------------------------------------
MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

"dependencies": {
```

```
"fbjs": "^0.8.16", MIT Copyright (c) 2013-present, Facebook, Inc.
"loose-envify": "^1.1.0", MIT Copyright (c) 2015 Andres Suarez
"object-assign": "^4.1.1", MIT Copyright (c) Sindre Sorhus
"prop-types": "^15.6.0" MIT Copyright (c) 2013-present, Facebook, Inc.
}MIT license text for above dependencies:
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

================================================================================

Following are the fourth party dependencies including the above four direct
dependencies.
--------------------------------------------------------------------------------
art@0.10.3
----------
The MIT License

Copyright (c) 2006-2009 Valerio Proietti,
Copyright (c) 2010-2011 Calyptus Life AB
Copyright (c) 2012-2013 Sebastian Markbåge

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
asap@2.0.6
----------
licenses: MIT

Copyright 2009-2014 Contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
```

```
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
--------------------------------------------------------------------------------
core-js@1.2.7
-------------
licenses: MIT

Copyright (c) 2014-2018 Denis Pushkarev

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
encoding@0.1.12
---------------
licenses: MIT

Copyright (c) 2012-2014 Andris Reinman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.
--------------------------------------------------------------------------------
fbjs@0.8.17
-----------
MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
iconv-lite@0.4.23
-----------------
licenses: MIT

Copyright (c) 2011 Alexander Shtuchkin

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
is-stream@1.1.0
---------------
The MIT License (MIT)

Copyright (c) Sindre Sorhus (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
isomorphic-fetch@2.2.1
----------------------
The MIT License (MIT)

Copyright (c) 2015 Matt Andrews

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
js-tokens@4.0.0
---------------
The MIT License (MIT)

Copyright (c) 2014, 2015, 2016, 2017, 2018 Simon Lydell

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
loose-envify@1.4.0
------------------
The MIT License (MIT)

Copyright (c) 2015 Andres Suarez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
node-fetch@1.7.3
----------------
The MIT License (MIT)

Copyright (c) 2016 David Frank

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
object-assign@4.1.1
-------------------
The MIT License (MIT)
```

```
Copyright (c) Sindre Sorhus (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
promise@7.3.1
-------------
licenses: MIT

Copyright (c) 2014 Forbes Lindesay

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
prop-types@15.6.2
-----------------
MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
safer-buffer@2.1.2
------------------
MIT License

Copyright (c) 2018 Nikita Skovoroda

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
setimmediate@1.0.5
------------------
licenses: MIT

Copyright (c) 2012 Barnesandnoble.com, llc, Donavon West, and Domenic
 Denicola

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
```

```
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
ua-parser-js@0.7.18
-------------------
Dual licensed under GPLv2 or MIT

Copyright © 2012-2018 Faisal Salman

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
whatwg-fetch@2.0.4
------------------
licenses: MIT

Copyright (c) 2014-2016 GitHub, Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
```

Provider: Facebook, Inc / Component(s): react 16.4.2

```
The reactjs library includes following npm modules: react, react-dom,
simple-cache-provider, create-subscription, react-art, react-is
--------------------------------------------------------------------------------
MIT License

Copyright (c) 2013-present, Facebook, Inc.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

"dependencies": {
"fbjs": "^0.8.16", MIT Copyright (c) 2013-present, Facebook, Inc.
"loose-envify": "^1.1.0", MIT Copyright (c) 2015 Andres Suarez
"object-assign": "^4.1.1", MIT Copyright (c) Sindre Sorhus
"prop-types": "^15.6.0" MIT Copyright (c) 2013-present, Facebook, Inc.
}MIT license text for above dependencies:
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

==============================================================================

Following are the fourth party dependencies including the above four direct
dependencies.
------------------------------------------------------------------------------
art@0.10.3
----------
The MIT License

Copyright (c) 2006-2009 Valerio Proietti,
Copyright (c) 2010-2011 Calyptus Life AB
Copyright (c) 2012-2013 Sebastian Markbåge

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
asap@2.0.6
----------
licenses: MIT

Copyright 2009-2014 Contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
--------------------------------------------------------------------------------
core-js@1.2.7
-------------
licenses: MIT

Copyright (c) 2014-2018 Denis Pushkarev

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
```

```
THE SOFTWARE.
--------------------------------------------------------------------------------
encoding@0.1.12
---------------
licenses: MIT

Copyright (c) 2012-2014 Andris Reinman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
fbjs@0.8.17
-----------
MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
iconv-lite@0.4.23
-----------------
licenses: MIT

Copyright (c) 2011 Alexander Shtuchkin

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
```

```
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
is-stream@1.1.0
---------------
The MIT License (MIT)

Copyright (c) Sindre Sorhus (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
isomorphic-fetch@2.2.1
----------------------
The MIT License (MIT)

Copyright (c) 2015 Matt Andrews

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
js-tokens@4.0.0
---------------
The MIT License (MIT)

Copyright (c) 2014, 2015, 2016, 2017, 2018 Simon Lydell

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
loose-envify@1.4.0
------------------
The MIT License (MIT)

Copyright (c) 2015 Andres Suarez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
node-fetch@1.7.3
----------------
The MIT License (MIT)

Copyright (c) 2016 David Frank
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
object-assign@4.1.1
-------------------
The MIT License (MIT)

Copyright (c) Sindre Sorhus (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
promise@7.3.1
-------------
licenses: MIT

Copyright (c) 2014 Forbes Lindesay

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
prop-types@15.6.2
-----------------
MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
safer-buffer@2.1.2
------------------
MIT License

Copyright (c) 2018 Nikita Skovoroda

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.
--------------------------------------------------------------------------------
setimmediate@1.0.5
------------------
licenses: MIT

Copyright (c) 2012 Barnesandnoble.com, llc, Donavon West, and Domenic
 Denicola

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
ua-parser-js@0.7.18
-------------------
Dual licensed under GPLv2 or MIT

Copyright © 2012-2018 Faisal Salman

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
whatwg-fetch@2.0.4
------------------
licenses: MIT

Copyright (c) 2014-2016 GitHub, Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
```

```
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
```

Provider: Facebook, Inc / Component(s): react-dom 16.4.2

```
Copyright (c) 2013-present, Facebook, Inc.
---------separator---------
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
encoding@0.1.12 (MIT)
Copyright (c) 2012-2014 Andris Reinman
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
ua-parser-js@0.7.18 (Dual licenced under GPL-2.0 and MIT. This distribution
 elects to distribute under the MIT License.)
Copyright © 2012-2016 Faisal Salman <<fyzlman@gmail.com>>
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
---------separator---------
fbjs@0.8.17 (MIT)
Copyright (c) 2013-present, Facebook, Inc.
---------separator---------
isomorphic-fetch@2.2.1 (MIT)
Copyright (c) 2015 Matt Andrews
---------separator---------
loose-envify@1.4.0 (MIT)
Copyright (c) 2015 Andres Suarez <zertosh@gmail.com>
---------separator---------
core-js@1.2.7 (MIT)
Copyright (c) 2015 Denis Pushkarev
---------separator---------
node-fetch@1.7.3 (MIT)
Copyright (c) 2016 David Frank
---------separator---------
asap@2.0.6 (MIT)
Copyright 2009-2014 Contributors. All rights reserved.
---------separator---------
promise@7.3.1 (MIT)
Copyright (c) 2014 Forbes Lindesay
---------separator---------
whatwg-fetch@2.0.4 (MIT)
Copyright (c) 2014-2016 GitHub, Inc.
---------separator---------
safer-buffer@2.1.2 (MIT)
Copyright (c) 2018 Nikita Skovoroda <chalkerx@gmail.com>
---------separator---------
object-assign@4.1.1 (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
---------separator---------
setimmediate@1.0.5 (MIT)
Copyright (c) 2012 Barnesandnoble.com, llc, Donavon West, and Domenic
 Denicola
---------separator---------
iconv-lite@0.4.23 (MIT)
Copyright (c) 2011 Alexander Shtuchkin
---------separator---------
js-tokens@4.0.0 (MIT)
Copyright (c) 2014, 2015, 2016, 2017, 2018 Simon Lydell
---------separator---------
is-stream@1.1.0 (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
---------separator---------
prop-types@15.6.2 (MIT)
Copyright (c) 2013-present, Facebook, Inc.
---------separator---------
fbjs@0.8.17
isomorphic-fetch@2.2.1
loose-envify@1.4.0
core-js@1.2.7
node-fetch@1.7.3
asap@2.0.6
promise@7.3.1
whatwg-fetch@2.0.4
safer-buffer@2.1.2
object-assign@4.1.1
setimmediate@1.0.5
iconv-lite@0.4.23
js-tokens@4.0.0
is-stream@1.1.0
```

```
prop-types@15.6.2

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
```

Provider: Facebook, Inc. and its affiliates / Component(s): react-dom 16.13.1

```
react-dom@16.12.0 (MIT)
Copyright (c) Facebook, Inc. and its affiliates.
---------separator---------
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
js-tokens@4.0.0 (MIT)
Copyright (c) 2014, 2015, 2016, 2017, 2018 Simon Lydell
---------separator---------
loose-envify@1.4.0 (MIT)
Copyright (c) 2015 Andres Suarez <zertosh@gmail.com>
---------separator---------
object-assign@4.1.1 (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
---------separator---------
prop-types@15.7.2 (MIT)
Copyright (c) 2013-present, Facebook, Inc.
---------separator---------
react-is@16.12.0 (MIT)
Copyright (c) Facebook, Inc. and its affiliates.
---------separator---------
scheduler@0.18.0 (MIT)
Copyright (c) Facebook, Inc. and its affiliates.
---------separator---------
```

```
js-tokens@4.0.0
loose-envify@1.4.0
object-assign@4.1.1
prop-types@15.7.2
react-is@16.12.0
scheduler@0.18.0

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
```

Provider: Facebook, Inc. and its affiliates / Component(s): redux-react-hook 3.3.2

```
. redux-react-hook@3.3.2
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Facebook, Inc. and its affiliates / Component(s): xformers 0.0.24

```
===================================Third Party
 Info===================================
xformers
BSD License
From xFormers:

Copyright (c) Facebook, Inc. and its affiliates


===

BSD 3-Clause License

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

===================================Fourth Party
 Info===================================

filelock
The Unlicense (Unlicense)
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

----------------------------------------------
fsspec
BSD License
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
jinja2
BSD License
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
```

```
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
markupsafe
BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
mpmath
BSD License
Copyright (c) 2005-2021 Fredrik Johansson and mpmath contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
```

```
     from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

----------------------------------------------
networkx
BSD License
NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2023, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
numpy
Numpy (License and Copyright)
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
```

```
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: extra-dll\libopenb*.dll
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------
```

```
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
tempita

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------
dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

--------------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
```

```
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

--------------------------------------------------------------------------------
LICENSES_bundled in different directories:
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md
```

```
Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.
```

```
   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
```

```
   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
```

```
   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

-------------------------------------------------------------------------------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-----------------------------------------------
sympy
BSD License
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:

Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:
```

Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE

```
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
torch
BSD License
From PyTorch:

Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.
```

```
All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
-----------------------------------------------
typing-extensions

Python Software Foundation License
A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.
```

```
In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.
```

```
PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
```

```
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
```

```
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.
```

```
STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
----------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------
```

Provider: FasterXML, LLC / Component(s): Classmate 1.5.0

```
Copyright: (C) FasterXML, LLC and Tatu Saloranta

LICENSE:

LICENSE file from package 'java-classmate-classmate-1.4.0' (src\main
\resources\META-INF\ directory):

This copy of Java ClassMate library is licensed under Apache (Software)
 License,
version 2.0 ("the License").
See the License for details about distribution rights, and the specific
 rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.
```

```
"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
```

Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by

```
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: FasterXML, LLC / Component(s): Jackson Annotations 2.16.1

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
```

```
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


-------


# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits
```

```
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

Provider: FasterXML, LLC / Component(s): Jackson Annotations 2.17.0

```
=======================================================
 Top level component : jackson-annotations 2.17.0
=======================================================
Copyright
---------
 Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

Notices
-------
 # Jackson JSON processor

 Jackson is a high-performance, Free/Open Source JSON processing library.
 It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
 been in development since 2007.
 It is currently developed by a community of developers.

 ## Copyright

 Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

 ## Licensing

 Jackson 2.x core and extension components are licensed under Apache License
 2.0
 To find the details that apply to this artifact see the accompanying
 LICENSE file.

 ## Credits

 A list of contributors may be found from CREDITS(-2.x) file, which is
 included
 in some artifacts (usually source distributions); but is always available
 from the source code management (SCM) system project uses.

=========================================================
=========================================================


Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=====================================================
```

Provider: FasterXML, LLC / Component(s): Jackson Core 2.16.1

```
Copyright © 2008-2022 FasterXML. All rights reserved.

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Copyright collected from source code:

 * Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
 * Copyright 2018-2020 Raffaello Giulietti
```

Provider: FasterXML, LLC / Component(s): Jackson Databind 2.16.1

```
------------------------------- Top-level license -------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------- Copyright notices --------------------------
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
```

```
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

---------------------------- Fourth-party information ----------------------
== jackson-core
== License
Apache 2.0
== Copyright Notices
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


Copyright collected from source code:

 * Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
 * Copyright 2018-2020 Raffaello Giulietti
--------------------------------(separator)---------------------------------
== jackson-annotations
== License
Apache 2.0
== Copyright Notices
Copyright © 2007-2022 FasterXML. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------(separator)--------------------------------
```

Provider: FasterXML, LLC / Component(s): Jackson Databind 2.17.0

```
------------------------------ Top-level license -------------------------

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
            do not modify the License. You may add Your own attribution
            notices within Derivative Works that You distribute, alongside
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

    END OF TERMS AND CONDITIONS

== Copyright Notices
# Jackson JSON processor
```

```
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


---------------------------- Fourth-party information ----------------------

== com.fasterxml.jackson.core:jackson-annotations
.
== License

Apache License Version 2.0

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

--------------------------------------------------------------------------------

== com.fasterxml.jackson.core:jackson-core
.
== License

Apache License Version 2.0

== Copyright Notices
# Jackson JSON processor
```

```
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.
------------------------------------------------------------------------------

== ch.randelshofer:fastdoubleparser
.
== License

MIT License

Copyright (c) 2023 Werner Randelshofer, Switzerland.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

== Copyright Notices

# FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger
 values.

## Copyright

Copyright © 2023 Werner Randelshofer, Switzerland.

## Licensing

This code is licensed under MIT License.
https://github.com/wrandelshofer/FastDoubleParser/
blob/522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
(The file 'LICENSE' is included in the sources and classes Jar files that
 are released by this project
- as is required by that license.)

Some portions of the code have been derived from other projects.
All these projects require that we include a copyright notice, and some
 require that we also include some text of their
license file.

fast_double_parser, Copyright (c) 2022 Daniel Lemire. BSL License.
https://github.com/lemire/fast_double_parser
https://github.com/lemire/fast_double_parser/
blob/07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE.BSL
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar
 files that are released by this project
- as is required by that license.)

fast_float, Copyright (c) 2021 The fast_float authors. MIT License.
https://github.com/fastfloat/fast_float
https://github.com/fastfloat/fast_float/blob/
cc1e01e9eee74128e48d51488a6b1df4a767a810/LICENSE-MIT
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar
 files that are released by this project
- as is required by that license.)

bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
https://github.com/tbuktu/bigint/tree/floatfft
https://github.com/tbuktu/bigint/
blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
https://github.com/wrandelshofer/FastDoubleParser/
blob/39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
(We only use those portions of the bigint project that can be licensed under
 2-clause BSD License.)
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar
 files that are released by this project
- as is required by that license.)

--------------------------------------------------------------------------------

== net.bytebuddy:byte-buddy:jar
.
```

```
== License

Apache 2.0

== Copyright Notices

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-annotations 2.10.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-annotations 2.10.2

```
Jackson Annotations
Copyright (c) 2019 Tatu Saloranta <tatu.saloranta@iki.fi>

LICENSE: Apache 2.0

                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-annotations 2.11.3

```
Jackson Annotations
Copyright (c) 2020 Tatu Saloranta <tatu.saloranta@iki.fi>

LICENSE: Apache 2.0
```

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-annotations 2.12.2

```
Jackson Annotations
Copyright (c) 2020 Tatu Saloranta <tatu.saloranta@iki.fi>

LICENSE: Apache 2.0

                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-annotations 2.14.1

```
Apache License
        Version 2.0, January 2004
        http://www.apache.org/licenses/

        TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

        1. Definitions.

        "License" shall mean the terms and conditions for use, reproduction,
        and distribution as defined by Sections 1 through 9 of this
 document.

        "Licensor" shall mean the copyright owner or entity authorized by
        the copyright owner that is granting the License.

        "Legal Entity" shall mean the union of the acting entity and all
        other entities that control, are controlled by, or are under common
        control with that entity. For the purposes of this definition,
        "control" means (i) the power, direct or indirect, to cause the
        direction or management of such entity, whether by contract or
        otherwise, or (ii) ownership of fifty percent (50%) or more of the
        outstanding shares, or (iii) beneficial ownership of such entity.

        "You" (or "Your") shall mean an individual or Legal Entity
        exercising permissions granted by this License.
```

```
       "Source" form shall mean the preferred form for making
modifications,
       including but not limited to software source code, documentation
       source, and configuration files.

       "Object" form shall mean any form resulting from mechanical
       transformation or translation of a Source form, including but
       not limited to compiled object code, generated documentation,
       and conversions to other media types.

       "Work" shall mean the work of authorship, whether in Source or
       Object form, made available under the License, as indicated by a
       copyright notice that is included in or attached to the work
       (an example is provided in the Appendix below).

       "Derivative Works" shall mean any work, whether in Source or Object
       form, that is based on (or derived from) the Work and for which the
       editorial revisions, annotations, elaborations, or other
modifications
       represent, as a whole, an original work of authorship. For the
purposes
       of this License, Derivative Works shall not include works that
remain
       separable from, or merely link (or bind by name) to the interfaces
of,
       the Work and Derivative Works thereof.

       "Contribution" shall mean any work of authorship, including
       the original version of the Work and any modifications or additions
       to that Work or Derivative Works thereof, that is intentionally
       submitted to Licensor for inclusion in the Work by the copyright
owner
       or by an individual or Legal Entity authorized to submit on behalf
of
       the copyright owner. For the purposes of this definition,
"submitted"
       means any form of electronic, verbal, or written communication sent
       to the Licensor or its representatives, including but not limited to
       communication on electronic mailing lists, source code control
systems,
       and issue tracking systems that are managed by, or on behalf of, the
       Licensor for the purpose of discussing and improving the Work, but
       excluding communication that is conspicuously marked or otherwise
       designated in writing by the copyright owner as "Not a
Contribution."

       "Contributor" shall mean Licensor and any individual or Legal Entity
       on behalf of whom a Contribution has been received by Licensor and
       subsequently incorporated within the Work.

       2. Grant of Copyright License. Subject to the terms and conditions
of
       this License, each Contributor hereby grants to You a perpetual,
       worldwide, non-exclusive, no-charge, royalty-free, irrevocable
       copyright license to reproduce, prepare Derivative Works of,
       publicly display, publicly perform, sublicense, and distribute the
       Work and such Derivative Works in Source or Object form.

       3. Grant of Patent License. Subject to the terms and conditions of
       this License, each Contributor hereby grants to You a perpetual,
       worldwide, non-exclusive, no-charge, royalty-free, irrevocable
       (except as stated in this section) patent license to make, have
made,
       use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
        where such license applies only to those patent claims licensable
        by such Contributor that are necessarily infringed by their
        Contribution(s) alone or by combination of their Contribution(s)
        with the Work to which such Contribution(s) was submitted. If You
        institute patent litigation against any entity (including a
        cross-claim or counterclaim in a lawsuit) alleging that the Work
        or a Contribution incorporated within the Work constitutes direct
        or contributory patent infringement, then any patent licenses
        granted to You under this License for that Work shall terminate
        as of the date such litigation is filed.

        4. Redistribution. You may reproduce and distribute copies of the
        Work or Derivative Works thereof in any medium, with or without
        modifications, and in Source or Object form, provided that You
        meet the following conditions:

        (a) You must give any other recipients of the Work or
        Derivative Works a copy of this License; and

        (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

        (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

        (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

        5. Submission of Contributions. Unless You explicitly state
otherwise,
        any Contribution intentionally submitted for inclusion in the Work
        by You to the Licensor shall be under the terms and conditions of
        this License, without any additional terms or conditions.
        Notwithstanding the above, nothing herein shall supersede or modify
        the terms of any separate license agreement you may have executed
        with Licensor regarding such Contributions.

        6. Trademarks. This License does not grant permission to use the
trade
        names, trademarks, service marks, or product names of the Licensor,
```

```
        except as required for reasonable and customary use in describing
the
        origin of the Work and reproducing the content of the NOTICE file.

        7. Disclaimer of Warranty. Unless required by applicable law or
        agreed to in writing, Licensor provides the Work (and each
        Contributor provides its Contributions) on an "AS IS" BASIS,
        WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
        implied, including, without limitation, any warranties or conditions
        of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
        PARTICULAR PURPOSE. You are solely responsible for determining the
        appropriateness of using or redistributing the Work and assume any
        risks associated with Your exercise of permissions under this
License.

        8. Limitation of Liability. In no event and under no legal theory,
        whether in tort (including negligence), contract, or otherwise,
        unless required by applicable law (such as deliberate and grossly
        negligent acts) or agreed to in writing, shall any Contributor be
        liable to You for damages, including any direct, indirect, special,
        incidental, or consequential damages of any character arising as a
        result of this License or out of the use or inability to use the
        Work (including but not limited to damages for loss of goodwill,
        work stoppage, computer failure or malfunction, or any and all
        other commercial damages or losses), even if such Contributor
        has been advised of the possibility of such damages.

        9. Accepting Warranty or Additional Liability. While redistributing
        the Work or Derivative Works thereof, You may choose to offer,
        and charge a fee for, acceptance of support, warranty, indemnity,
        or other liability obligations and/or rights consistent with this
        License. However, in accepting such obligations, You may act only
        on Your own behalf and on Your sole responsibility, not on behalf
        of any other Contributor, and only if You agree to indemnify,
        defend, and hold each Contributor harmless for any liability
        incurred by, or claims asserted against, such Contributor by reason
        of your accepting any such warranty or additional liability.

        END OF TERMS AND CONDITIONS

        APPENDIX: How to apply the Apache License to your work.

        To apply the Apache License to your work, attach the following
        boilerplate notice, with the fields enclosed by brackets "[]"
        replaced with your own identifying information. (Don't include
        the brackets!)  The text should be enclosed in the appropriate
        comment syntax for the file format. We also recommend that a
        file or class name and description of purpose be included on the
        same "printed page" as the copyright notice for easier
        identification within third-party archives.

        Copyright [yyyy] [name of copyright owner]

        Licensed under the Apache License, Version 2.0 (the "License");
        you may not use this file except in compliance with the License.
        You may obtain a copy of the License at

        http://www.apache.org/licenses/LICENSE-2.0

        Unless required by applicable law or agreed to in writing, software
        distributed under the License is distributed on an "AS IS" BASIS,
        WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied.
        See the License for the specific language governing permissions and
```

```
        limitations under the License.

        Copyright © 2007-2022 FasterXML. All rights reserved.

        Licensed under the Apache License, Version 2.0 (the "License");
        you may not use this file except in compliance with the License.
        You may obtain a copy of the License at
        http://www.apache.org/licenses/LICENSE-2.0
        Unless required by applicable law or agreed to in writing, software
        distributed under the License is distributed on an "AS IS" BASIS,
        WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
        See the License for the specific language governing permissions and
        limitations under the License.


 ***********************************************************************

        Copyright © 2007-2022 FasterXML. All rights reserved.

        Licensed under the Apache License, Version 2.0 (the "License");
        you may not use this file except in compliance with the License.
        You may obtain a copy of the License at
        http://www.apache.org/licenses/LICENSE-2.0
        Unless required by applicable law or agreed to in writing, software
        distributed under the License is distributed on an "AS IS" BASIS,
        WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
        See the License for the specific language governing permissions and
        limitations under the License.
```

```
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.
"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
```

```
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:
(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and
(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and
(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
```

```
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.
You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.
```

```
Copyright [yyyy] [name of copyright owner]
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-annotations 2.9.8

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
```

```
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
```

```
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-core 2.10.2

```
jackson-core 2.9.7
COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0
                           Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
```

```
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
```

```
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-core 2.11.3

```
Jackson Core
Copyright © 2008-2019 FasterXML. All rights reserved.

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

NOTICE FILE:
```

```
===============
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
===============


 From the LICENSE file:

                            Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
```

```
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-core 2.12.3

```
Jackson Core
Copyright © 2008-2019 FasterXML. All rights reserved.

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

NOTICE FILE:
===============
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
```

```
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
===============


 From the LICENSE file:

                           Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
```

```
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
```

```
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-core 2.14.1

```
Copyright © 2008-2022 FasterXML. All rights reserved.

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
```

```
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-core 2.15.2

```
=====================================================
 Top level component : jackson-core 2.15.2
=====================================================
License
-------
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=======================================================
NOTICE
=======================================================

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.
```

```
See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.

=====================================================
Fourth-party dependency : ch.randelshofer.fastdoubleparser
=====================================================
 MIT License

 Copyright (c) 2021 Werner Randelshofer, Switzerland.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all
 copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
 SOFTWARE.
=====================================================
# FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger
 values.

## Copyright

Copyright © 2023 Werner Randelshofer, Switzerland.

## Licensing

This code is licensed under MIT License.
https://github.com/wrandelshofer/FastDoubleParser/
blob/522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
(The file 'LICENSE' is included in the sources and classes Jar files that
 are released by this project
- as is required by that license.)

Some portions of the code have been derived from other projects.
All these projects require that we include a copyright notice, and some
 require that we also include some text of their
license file.

fast_double_parser, Copyright (c) 2022 Daniel Lemire. Apache 2.0 License.
https://github.com/fastfloat/fast_float
https://github.com/fastfloat/fast_float/blob/
dc88f6f882ac7eb8ec3765f633835cb76afa0ac2/LICENSE-APACHE
```

```
fast_float, Copyright (c) 2021 The fast_float authors. Apache 2.0 License.
https://github.com/fastfloat/fast_float
https://github.com/lemire/fast_double_parser/
blob/07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE

bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
https://github.com/tbuktu/bigint/tree/floatfft
https://github.com/tbuktu/bigint/
blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
https://github.com/wrandelshofer/FastDoubleParser/
blob/39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
(We only use those portions of the bigint project that can be licensed under
 2-clause BSD License.)
(The file 'bigint-LICENSE' is included in the sources and classes Jar files
 that are released by this project
- as is required by that license.)
```

Provider: FasterXML, LLC / Component(s): jackson-core 2.9.8

```
jackson-core 2.9.8
COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0
                           Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-databind 2.10.1

```
  Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
```

```
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

COPYRIGHT NOTICE
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing
```

```
Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

Provider: FasterXML, LLC / Component(s): jackson-databind 2.10.2

```
Jackson Databind
Copyright (c) 2019 Tatu Saloranta <tatu.saloranta@iki.fi>

LICENSE: Apache 2.0

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

COPYRIGHT NOTICE
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

-----------------jackson-core 2.10.2 -----------------------
COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
-----------------jackson-annotations 2.10.2 -----------------------
COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0
```

Provider: FasterXML, LLC / Component(s): jackson-databind 2.11.3

```
TOP LEVEL COMPONENT NAMES: com.fasterxml.jackson.core:jackson-databind
Copyright © 2008-2012 FasterXML. All rights reserved.
----------------------------------------------------------------------
```

```
This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

NOTICE FILE:
===============
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
===============

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
```

```
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
```

```
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

====================End of Apache License 2.0 of top level
 component======================

FOURTH-PARTY DEPENDENCY

----------------jackson-core 2.11.2 -----------------------
COPYRIGHT: Copyright (c) 2007-2020 Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0

-----------------jackson-annotations 2.11.2 -----------------------
COPYRIGHT: Copyright (c) 2007- 2020 Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0
```

Provider: FasterXML, LLC / Component(s): jackson-databind 2.12.2

```
TOP LEVEL COMPONENT NAMES: com.fasterxml.jackson.core:jackson-databind
Copyright © 2008-2012 FasterXML. All rights reserved.
----------------------------------------------------------------------

This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

NOTICE FILE:
===============
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
===============

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
```

```
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

====================End of Apache License 2.0 of top level
 component=====================

FOURTH-PARTY DEPENDENCY

----------------jackson-core -----------------------
COPYRIGHT: Copyright (c) 2007-2020 Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0

-----------------jackson-annotations -----------------------
```

```
COPYRIGHT: Copyright (c) 2007- 2020 Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0
```

Provider: FasterXML, LLC / Component(s): jackson-databind 2.14.1

```
------------------------------- Top-level license -------------------------
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------- Copyright notices --------------------------
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
---------------------------- Fourth-party information ----------------------
== jackson-core
== License
Apache 2.0
== Copyright Notices
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits
```

```
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
---------------------------------(separator)---------------------------------
== jackson-annotations
== License
Apache 2.0
== Copyright Notices
Copyright © 2007-2022 FasterXML. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------(separator)---------------------------------
```

Provider: FasterXML, LLC / Component(s): jackson-dataformats-text 2.10.0

```
jackson-dataformat-text 2.9.8

COPYRIGHT:
Copyright 2007 Tatu Saloranta
Copyright 2012 FasterXML.com

LICENSE: Apache 2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
```

```
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
```

```
   You must cause any modified files to carry prominent notices stating
 that You changed the files; and
   You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
   If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

   You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
```

```
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

==================================
Modules:

csv
properties
yaml

==================================
4P Dependencies:

com.fasterxml.jackson.core jackson-core 2.9.8
com.fasterxml.jackson.core jackson-databind 2.9.8
com.fasterxml.jackson.core jackson-annotations 2.9.8

COPYRIGHT:
Copyright 2007 Tatu Saloranta
Copyright 2012 FasterXML.com

LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0

---
org.yaml snakeyaml 1.23
COYRIGHT: Copyright (c) 2008, http://www.snakeyaml.org
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0
```

Provider: FasterXML, LLC / Component(s): jackson-dataformats-text 2.9.5

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-dataformats-text 2.9.7

```
Copyright 2007 Tatu Saloranta
Copyright 2012 FasterXML.com

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
```

```
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
----------------
4P Dependencies:

com.fasterxml.jackson.core jackson-core 2.9.7
com.fasterxml.jackson.core jackson-databind 2.9.7
com.fasterxml.jackson.core jackson-annotations 2.9.7

Copyright 2007 Tatu Saloranta
Copyright 2012 FasterXML.com

LICENSE: Apache 2.0

---
org.yaml snakeyaml 1.23
COYRIGHT: Copyright (c) 2008, http://www.snakeyaml.org
LICENSE: Apache 2.0
```

Provider: FasterXML, LLC / Component(s): jackson-dataformats-text 2.9.9

```
jackson-dataformat-text 2.9.8

COPYRIGHT:
Copyright 2007 Tatu Saloranta
Copyright 2012 FasterXML.com

LICENSE: Apache 2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
```

```
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
```

```
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

=================================
Modules:

csv
properties
yaml

=================================
4P Dependencies:

com.fasterxml.jackson.core jackson-core 2.9.8
com.fasterxml.jackson.core jackson-databind 2.9.8
com.fasterxml.jackson.core jackson-annotations 2.9.8

COPYRIGHT:
Copyright 2007 Tatu Saloranta
Copyright 2012 FasterXML.com

LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0

---
org.yaml snakeyaml 1.23
COYRIGHT: Copyright (c) 2008, http://www.snakeyaml.org
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0
```

Provider: FasterXML, LLC / Component(s): jackson-dataformat-xml 2.16.1

```
--------------------------------------------
Top Level Component: jackson-dataformat-xml
--------------------------------------------
```

```
---------------------------------------------
Top Level Component License: Apache License
---------------------------------------------


                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

---------------------------------------------
Top Level Component Copyright Notices:
---------------------------------------------
 # Jackson JSON processor

 Jackson is a high-performance, Free/Open Source JSON processing library.
 It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
 been in development since 2007.
 It is currently developed by a community of developers, as well as
 supported
 commercially by FasterXML.com.

 ## Licensing

 Jackson core and extension components may be licensed under different
 licenses.
 To find the details that apply to this artifact see the accompanying
 LICENSE file.
 For more information, including possible other licensing options, contact
 FasterXML.com (http://fasterxml.com).

 ## Credits

 A list of contributors may be found from CREDITS file, which is included
 in some artifacts (usually source distributions); but is always available
 from the source code management (SCM) system project uses.

---------------------------------------
Separator---------------------------------------

Fourth Party Component # com.fasterxml.jackson.core:jackson-annotations
Fourth Party Component # License: Apache 2.0
Fourth Party Component # Copyright Notices:
 # Jackson JSON processor

 Jackson is a high-performance, Free/Open Source JSON processing library.
 It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
 been in development since 2007.
 It is currently developed by a community of developers.

 ## Copyright

 Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

 ## Licensing
```

```
 Jackson 2.x core and extension components are licensed under Apache License
 2.0
 To find the details that apply to this artifact see the accompanying
 LICENSE file.

 ## Credits

 A list of contributors may be found from CREDITS(-2.x) file, which is
 included
 in some artifacts (usually source distributions); but is always available
 from the source code management (SCM) system project uses.
---------------------------------------
Separator---------------------------------------

Fourth Party Component # com.fasterxml.jackson.core:jackson-core
Fourth Party Component # License: Apache 2.0
Fourth Party Component # Copyright Notices:

 # Jackson JSON processor

 Jackson is a high-performance, Free/Open Source JSON processing library.
 It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
 been in development since 2007.
 It is currently developed by a community of developers.

 ## Copyright

 Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

 ## Licensing

 Jackson 2.x core and extension components are licensed under Apache License
 2.0
 To find the details that apply to this artifact see the accompanying
 LICENSE file.

 ## Credits

 A list of contributors may be found from CREDITS(-2.x) file, which is
 included
 in some artifacts (usually source distributions); but is always available
 from the source code management (SCM) system project uses.

 ## FastDoubleParser

 jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
 That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
 under the following copyright.

 Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

 See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
 and the licenses and copyrights that apply to that code.

---------------------------------------
Separator---------------------------------------

Fourth Party Component #  com.fasterxml.jackson.core:jackson-databind
Fourth Party Component #  License: Apache 2.0
```

```
Fourth Party Component #  Copyright Notices:

 # Jackson JSON processor

 Jackson is a high-performance, Free/Open Source JSON processing library.
 It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
 been in development since 2007.
 It is currently developed by a community of developers.

 ## Copyright

 Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

 ## Licensing

 Jackson 2.x core and extension components are licensed under Apache License
 2.0
 To find the details that apply to this artifact see the accompanying
 LICENSE file.

 ## Credits

 A list of contributors may be found from CREDITS(-2.x) file, which is
 included
 in some artifacts (usually source distributions); but is always available
 from the source code management (SCM) system project uses.

----------------------------------------
Separator---------------------------------------

Fourth Party Component #  org.codehaus.woodstox:stax2-api
Fourth Party Component #  License: BSD Clause-2

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES,
 INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Fourth Party Component #  Copyright Notice:

 This copy of Stax2 API is licensed under the
 Simplified BSD License (also known as "2-clause BSD", or "FreeBSD License")
 See the License for details about distribution rights, and the
 specific rights regarding derivate works.
```

```
 You may obtain a copy of the License at:

 http://www.opensource.org/licenses/bsd-license.php

 with details of:

 <COPYRIGHT HOLDER> = FasterXML.com
 <YEAR> = 2010-2022
----------------------------------------
Separator--------------------------------------

Fourth Party Component #  com.fasterxml.woodstox:woodstox-core
Fourth Party Component #  License: Apache 2.0
Fourth Party Component #  Copyright Notices:

 This copy of Jackson JSON processor databind module is licensed under the
 Apache (Software) License, version 2.0 ("the License").
 See the License for details about distribution rights, and the
 specific rights regarding derivate works.

 You may obtain a copy of the License at:

 http://www.apache.org/licenses/LICENSE-2.0

 /* Woodstox XML processor
  *
  * Copyright (c) 2004- Tatu Saloranta, tatu.saloranta@iki.fi
  *
  * Licensed under the License specified in the file LICENSE which is
  * included with the source code.
  * You may not use this file except in compliance with the License.
  *
  * Unless required by applicable law or agreed to in writing, software
  * distributed under the License is distributed on an "AS IS" BASIS,
  * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  * See the License for the specific language governing permissions and
  * limitations under the License.
  */

  Copyright © 2020 FasterXML. All rights reserved.

----------------------------------------
Separator--------------------------------------

Fourth Party Component #  ch.randelshofer » fastdoubleparser
Fourth Party Component #  License:

  MIT License

    Copyright (c) 2023 Werner Randelshofer, Switzerland.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
```

```
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE.

Fourth Party Dependency # Copyright Notices:

    # FastDoubleParser

    This is a Java port of Daniel Lemire's fast_float project.
    This project provides parsers for double, float, BigDecimal and
 BigInteger values.

    ## Copyright

    Copyright © 2023 Werner Randelshofer, Switzerland.

    ## Licensing

    This code is licensed under MIT License.
    https://github.com/wrandelshofer/FastDoubleParser/
blob/522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
    (The file 'LICENSE' is included in the sources and classes Jar files
 that are released by this project
    - as is required by that license.)

    Some portions of the code have been derived from other projects.
    All these projects require that we include a copyright notice, and some
 require that we also include some text of their
    license file.

    fast_double_parser, Copyright (c) 2022 Daniel Lemire. Apache 2.0
 License.
    https://github.com/fastfloat/fast_float
    https://github.com/fastfloat/fast_float/blob/
dc88f6f882ac7eb8ec3765f633835cb76afa0ac2/LICENSE-APACHE

    fast_float, Copyright (c) 2021 The fast_float authors. Apache 2.0
 License.
    https://github.com/fastfloat/fast_float
    https://github.com/lemire/fast_double_parser/
blob/07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE

    bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
    https://github.com/tbuktu/bigint/tree/floatfft
    https://github.com/tbuktu/bigint/
blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
    https://github.com/wrandelshofer/FastDoubleParser/
blob/39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
    (We only use those portions of the bigint project that can be licensed
 under 2-clause BSD License.)
    (The file 'bigint-LICENSE' is included in the sources and classes Jar
 files that are released by this project
    - as is required by that license.)
```

```
---------------------------------------
Separator--------------------------------------
```

Provider: FasterXML, LLC / Component(s): jackson-dataformat-yaml 2.12.3

```
------------------------------- Top-level license -------------------------

This copy of Jackson JSON processor YAML module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution
as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner
that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that
control, are controlled by, or are under common control with that entity.
 For the
purposes of this definition, "control" means (i) the power, direct or
 indirect, to
cause the direction or management of such entity, whether by contract or
 otherwise,
or (ii) ownership of fifty percent (50%) or more of the outstanding shares,
 or (iii)
beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions
granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but
not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included in
or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is
based on (or derived from) the Work and for which the editorial revisions,
annotations, elaborations, or other modifications represent, as a whole, an
 original
work of authorship. For the purposes of this License, Derivative Works shall
 not
include works that remain separable from, or merely link (or bind by name)
 to the
interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of
the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work by
the copyright owner or by an individual or Legal Entity authorized to submit
 on behalf
of the copyright owner. For the purposes of this definition, "submitted"
 means any
form of electronic, verbal, or written communication sent to the Licensor or
 its
representatives, including but not limited to communication on electronic
 mailing
lists, source code control systems, and issue tracking systems that are
 managed by,
or on behalf of, the Licensor for the purpose of discussing and improving
 the Work,
but excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf of
whom a Contribution has been received by Licensor and subsequently
 incorporated
within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License,
each Contributor hereby grants to You a perpetual, worldwide, non-exclusive,
 no-
charge, royalty-free, irrevocable copyright license to reproduce, prepare
 Derivative
Works of, publicly display, publicly perform, sublicense, and distribute the
 Work
and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License,
each Contributor hereby grants to You a perpetual, worldwide, non-exclusive,
 no-
charge, royalty-free, irrevocable (except as stated in this section) patent
 license
to make, have made, use, offer to sell, sell, import, and otherwise transfer
 the Work,
where such license applies only to those patent claims licensable by such
 Contributor
```

```
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
 submitted.
If You institute patent litigation against any entity (including a cross-
claim or
counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated
within the Work constitutes direct or contributory patent infringement, then
 any
patent licenses granted to You under this License for that Work shall
 terminate as
of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative
Works thereof in any medium, with or without modifications, and in Source
 or
Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this
License; and
You must cause any modified files to carry prominent notices stating that
 You changed
the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all
copyright, patent, trademark, and attribution notices from the Source form
 of the
Work, excluding those notices that do not pertain to any part of the
 Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative
Works that You distribute must include a readable copy of the attribution
notices contained within such NOTICE file, excluding those notices that do
 not pertain
to any part of the Derivative Works, in at least one of the following
 places:
within a NOTICE text file distributed as part of the Derivative Works;
 within the
Source form or documentation, if provided along with the Derivative Works;
 or, within
a display generated by the Derivative Works, if and wherever such third-
party notices
normally appear. The contents of the NOTICE file are for informational
 purposes
only and do not modify the License. You may add Your own attribution notices
 within
Derivative Works that You distribute, alongside or as an addendum to the
NOTICE text from the Work, provided that such additional attribution notices
 cannot
be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.
```

```
5. Submission of Contributions. Unless You explicitly state otherwise, any
 Contribution
intentionally submitted for inclusion in the Work by You to the Licensor
 shall
be under the terms and conditions of this License, without any additional
 terms or
conditions. Notwithstanding the above, nothing herein shall supersede or
 modify
the terms of any separate license agreement you may have executed with
 Licensor
regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names,
trademarks, service marks, or product names of the Licensor, except as
 required for
reasonable and customary use in describing the origin of the Work and
 reproducing
the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in
 writing,
Licensor provides the Work (and each Contributor provides its Contributions)
 on
an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 express or
implied, including, without limitation, any warranties or conditions of
 TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort
(including negligence), contract, or otherwise, unless required by
 applicable law (such
as deliberate and grossly negligent acts) or agreed to in writing, shall
 any
Contributor be liable to You for damages, including any direct, indirect,
 special, incidental, or
consequential damages of any character arising as a result of this License
 or out
of the use or inability to use the Work (including but not limited to
 damages for loss
of goodwill, work stoppage, computer failure or malfunction, or any and all
 other
commercial damages or losses), even if such Contributor has been advised of
 the
possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work
 or
Derivative Works thereof, You may choose to offer, and charge a fee for,
 acceptance of
support, warranty, indemnity, or other liability obligations and/or rights
 consistent
with this License. However, in accepting such obligations, You may act only
 on
Your own behalf and on Your sole responsibility, not on behalf of any other
 Contributor,
and only if You agree to indemnify, defend, and hold each Contributor
```

```
harmless for any liability incurred by, or claims asserted against, such
 Contributor
by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
-------------------------------------------------------------Copyright
 notices -----------------------------------

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


-------------------------------------------------------------FOURTH PARTY
 DEPENDENCY 1-----------------------------------
jackson-core 2.12.3

== License
Apache 2.0
== Copyright Notice
 # Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

-------------------------------------------------------------FOURTH PARTY
 DEPENDENCY 2--------------------------------------
jackson-databind 2.12.3
== License
```

```
Apache 2.0
== Copyright Notice
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

-------------------------------------------------------------FOURTH PARTY
 DEPENDENCY 3-------------------------------------
jackson-annotations 2.12.3

==License
Apache 2.0

-------------------------------------------------------------FOURTH PARTY
 DEPENDENCY 4-----------------------------------
Snake YAML 1.27
== License
Apache 2.0
== Copyright Notice
/**
 * Copyright (c) 2008, http://www.snakeyaml.org
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Provider: FasterXML, LLC / Component(s): jackson-dataformat-yaml 2.16.1

```
------------------------------ jackson-dataformat-
yaml--------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
```

```
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
================================================================================
This copy of Jackson JSON processor YAML module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivative works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0
================================================================================
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson components are licensed under Apache (Software) License, version
 2.0,
as per accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
================================================================================
4th parties
================================================================================
com.fasterxml.jackson.core:jackson-databind

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits
```

```
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
================================================================================
com.fasterxml.jackson.core:jackson-annotations

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

================================================================================
com.fasterxml.jackson.core:jackson-core

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
```

```
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.

===============================================================================

ch.randelshofer:fastdoubleparser

MIT License

Copyright (c) 2023 Werner Randelshofer, Switzerland.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

===============================================================================

# FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger
 values.

## Copyright

Copyright © 2023 Werner Randelshofer, Switzerland.

## Licensing

This code is licensed under MIT License.
https://github.com/wrandelshofer/FastDoubleParser/
blob/522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
(The file 'LICENSE' is included in the sources and classes Jar files that
 are released by this project
- as is required by that license.)

Some portions of the code have been derived from other projects.
All these projects require that we include a copyright notice, and some
 require that we also include some text of their
```

```
license file.

fast_double_parser, Copyright (c) 2022 Daniel Lemire. BSL License.
https://github.com/lemire/fast_double_parser
https://github.com/lemire/fast_double_parser/
blob/07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE.BSL
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar
 files that are released by this project
- as is required by that license.)

fast_float, Copyright (c) 2021 The fast_float authors. MIT License.
https://github.com/fastfloat/fast_float
https://github.com/fastfloat/fast_float/blob/
cc1e01e9eee74128e48d51488a6b1df4a767a810/LICENSE-MIT
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar
 files that are released by this project
- as is required by that license.)

bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
https://github.com/tbuktu/bigint/tree/floatfft
https://github.com/tbuktu/bigint/
blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
https://github.com/wrandelshofer/FastDoubleParser/
blob/39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
(We only use those portions of the bigint project that can be licensed under
 2-clause BSD License.)
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar
 files that are released by this project
- as is required by that license.)
==============================================================================
Copyright (c) 2008, SnakeYAML

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-jdk8 2.10.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-jdk8 2.9.0

```
Jackson-datatype-jdk8 2.9.0
Source URL: https://github.com/FasterXML/jackson-modules-java8/tree/jackson-
modules-java8-2.9.0
License URL: https://github.com/FasterXML/jackson-modules-java8/blob/
jackson-modules-java8-2.9.0/LICENSE
Apache License

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
```

```
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
```

```
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
```

```
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
============================================================
(2) 4th Party Dependencies
Jackson-core v. 2.9.0
Source URL:  https://github.com/FasterXML/jackson-core/tree/jackson-
core-2.9.0


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
-------------------------------------------------------------------------------------------
Jackson-databind v. 2.8.9
Source URL: https://github.com/FasterXML/jackson-databind/tree/jackson-
databind-2.8.9


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
```

```
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-jdk8 2.9.5

```
Jackson-datatype-jdk8 2.9.0
Source URL: https://github.com/FasterXML/jackson-modules-java8/tree/jackson-
modules-java8-2.9.0
License URL: https://github.com/FasterXML/jackson-modules-java8/blob/
jackson-modules-java8-2.9.0/LICENSE
Apache License

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
============================================================
(2) 4th Party Dependencies
Jackson-core v. 2.9.0
Source URL:  https://github.com/FasterXML/jackson-core/tree/jackson-
core-2.9.0


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
-------------------------------------------------------------------------------------------
Jackson-databind v. 2.8.9
Source URL: https://github.com/FasterXML/jackson-databind/tree/jackson-
databind-2.8.9


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
END OF TERMS AND CONDITIONS
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-jdk8 2.9.7

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

Provider: FasterXML, LLC/ Component(s): jackson-datatype-jdk8 2.9.8

```
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
```

```
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-jdk8 2.9.9

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-joda 2.9.0

```
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
```

```
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
```

```
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
```

```
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-joda 2.9.2

```
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.
```

```
"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.
```

```
7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-joda 2.9.5

```
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."
```

```
"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
```

```
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]
```

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: FasterXML, LLCFasterXML, LLC / Component(s): jackson-datatype-jsr310 2.10.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-jsr310 2.12.3

```
------------------------------- Top-level license --------------------------
 jackson-datatype-jsr310 2.12.3

                  Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
```

```
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
```

```
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------Copyright
 notices -----------------------------------
/*
 * Copyright 2013 FasterXML.com
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 * not use this file except in compliance with the License. You may obtain
 * a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the license for the specific language governing permissions and
 * limitations under the license.
```

```
 */

-------------------------------------------------------------FOURTH PARTY
 DEPENDENCY 1-----------------------------------


jackson-annotations 2.12.3
== License
Apache 2.0
== Copyright Notice

-------------------------------------------------------------FOURTH PARTY
 DEPENDENCY 2-----------------------------------

jackson-core 2.12.0
== License
 Apache 2.0
== Copyright Notice
 # Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

-------------------------------------------------------------FOURTH PARTY
 DEPENDENCY 3-----------------------------------
jackson-databind 2.12.3
== License
Apache 2.0
== Copyright Notice
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
```

```
from the source code management (SCM) system project uses.
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-jsr310 2.9.7

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-jsr310 2.9.8

```
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-datatype-jsr310 2.9.9

```
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
```

```
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
```

```
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-jaxrs-base 2.10.2

```
jackson-jaxrs-base v2.10.2

COPYRIGHT: Copyright FasterXML.com
LICENSE: Apache 2.0
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


============================
4P Dependencies:

jackson-core 2.10.2
jackson-annotations 2.10.2
jackson-databind 2.10.2

COPYRIGHT:
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
Copyright (c) Fasterxml

LICENSE: Apache 2.0
                              Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: FasterXML, LLC / Component(s): jackson-jaxrs-base 2.11.3

```
jackson-jaxrs-base v2.11.2

Copyright 2020 FasterXML. All rights reserved.
LICENSE: Apache 2.0
                              Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


============================
Fourth-party dependencies:

----------------------------------------
jackson-annotations 2.11.2
Copyright (c) 2007-2020 Tatu Saloranta, tatu.saloranta@iki.fi

LICENSE file text:
This copy of Jackson JSON processor annotations is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

No NOTICE file in jackson-annotations source directory

-------------------------------------------------------
jackson-core 2.11.2
```

```
Copyright (c) 2007-2020 Tatu Saloranta, tatu.saloranta@iki.fi

LICENSE file text:

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

NOTICE file text:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
 been in development since 2007.
It is currently developed by a community of developers, as well as supported
 commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

----------------------------------------
jackson-databind 2.11.2
Copyright (c) 2007-2020 Tatu Saloranta, tatu.saloranta@iki.fi

LICENSE file text:

This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

NOTICE file text:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing
```

```
Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits
-----------------------------------
A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

Provider: FasterXML, LLC / Component(s): jackson-jaxrs-base 2.9.7

```
    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-jaxrs-base 2.9.9

```
jackson-jaxrs-base v2.9.8

COPYRIGHT: Copyright FasterXML.com
LICENSE: Apache 2.0
                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


============================
4P Dependencies:

jackson-core 2.9.8
jackson-annotations 2.9.8 (upgraded from 2.9.0)
jackson-databind 2.9.8

COPYRIGHT:
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
Copyright (c) Fasterxml

LICENSE: Apache 2.0
                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: FasterXML, LLC / Component(s): jackson-jaxrs-json-provider 2.10.2

```
Top Level Component:  jackson-jaxrs-json-provider
Top Level Component License: Apache 2.0

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.
     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."
     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.
  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.
  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:
     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and
     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and
     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
     (d) If the Work includes a "NOTICE" text file as part of its
         distribution, then any Derivative Works that You distribute must
         include a readable copy of the attribution notices contained
         within such NOTICE file, excluding those notices that do not
         pertain to any part of the Derivative Works, in at least one
         of the following places: within a NOTICE text file distributed
         as part of the Derivative Works; within the Source form or
         documentation, if provided along with the Derivative Works; or,
```

```
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Top Level Component Copyright Notice :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
-------------------------------------------------------------------------------------------

Fourth Party Dependency #  1 :  jackson-annotations
Fourth Party Dependency #  1  License: Apache 2.0


Fourth Party Dependency #  1 Copyright:

Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
-------------------------------------------------------------------------------------------

Fourth Party Dependency #  2 :  jackson-core
Fourth Party Dependency #  2  License: Apache 2.0


Fourth Party Dependency #  2 Copyright:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
```

```
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

-------------------------------------------------------------------------------------

Fourth Party Dependency #  3 :  jackson-databind
Fourth Party Dependency #  3  License: Apache 2.0


Fourth Party Dependency #  3 Copyright:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
-------------------------------------------------------------------------------------

Fourth Party Dependency #  4 :  jackson-jaxrs-base
Fourth Party Dependency #  4  License: Apache 2.0


Fourth Party Dependency #  4 Copyright:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
```

```
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
-----------------------------------------------------------------------------------------

Fourth Party Dependency #  5 :  jackson-module-jaxb-annotations
Fourth Party Dependency #  5  License: Apache 2.0


Fourth Party Dependency #  5 Copyright:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
© 2019 GitHub, Inc.
-----------------------------------------------------------------------------------------

Fourth Party Dependency #  6 :  jakarta.activation-api
Fourth Party Dependency #  6  License: EDL 1.0


    Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

      - Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

      - Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.

      - Neither the name of the Eclipse Foundation, Inc. nor the names of
 its
        contributors may be used to endorse or promote products derived
        from this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
    IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO,
```

```
    THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
    CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Fourth Party Dependency #  6 Copyright:

# Notices for Eclipse Project for JAF

This content is produced and maintained by the Eclipse Project for JAF
 project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaf

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Distribution License v. 1.0,
which is available at http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaf

## Third-party Content

This project leverages the following third party content.

JUnit (4.12)

* License: Eclipse Public License

-----------------------------------------------------------------------------------------

Fourth Party Dependency #  7 :  jakarta.xml.bind-api
Fourth Party Dependency #  7  License: EDL 1.0


Fourth Party Dependency #  7 Copyright:


    Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights
 reserved.

    Redistribution and use in source and binary forms, with or without
```

```
    modification, are permitted provided that the following conditions
    are met:

      - Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

      - Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.

      - Neither the name of the Eclipse Foundation, Inc. nor the names of
 its
        contributors may be used to endorse or promote products derived
        from this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
    IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO,
    THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
    CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------------------------------------------------------------------------------------
```

Provider: FasterXML, LLC / Component(s): jackson-jaxrs-json-provider 2.11.3

```
jackson-jaxrs-json-provider

Copyright (c) Fasterxml 2020

NOTICE file text:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

```
==========================
LICENSE: Apache 2.0

                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

==========================
Dependencies:

jackson-core
Copyright © 2008-2019 FasterXML. All rights reserved.

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

-----------------------------
jackson-jaxrs-base
Copyright (c) Fasterxml 2020

This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

----------------------
jackson-module-jaxb-annotations
Copyright (c) Fasterxml 2020

This copy of Jackson JSON processor `jackson-module-jaxb-annotations` module
 is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0


---------------------
jackson-annotations
Copyright (c) Fasterxml 2020
```

```
This copy of Jackson JSON processor annotations is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

-----------------------------
jackson-databind
Copyright (c) Fasterxml 2020

This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

-----------------------------
jakarta.xml-bind-api
Eclipse Distribution License 1.0

    Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights
 reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

      - Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

      - Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.

      - Neither the name of the Eclipse Foundation, Inc. nor the names of
 its
        contributors may be used to endorse or promote products derived
        from this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
    IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO,
    THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
    CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


NOTICE file text for jakarta.xml-bind-api
--------
# Notices for Eclipse Project for JAXB
```

```
This content is produced and maintained by the Eclipse Project for JAXB
 project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxb

## Trademarks

Eclipse Project for JAXB is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Distribution License v. 1.0 which is available
at http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-api

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

-----------------------------
jakarta.activation-api
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.
Eclipse Distribution License 1.0

NOTICE file text for jakarta.activation-api:

# Notices for Eclipse Project for JAF

This content is produced and maintained by the Eclipse Project for JAF
 project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaf
```

```
## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Distribution License v. 1.0,
which is available at http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaf
```

Provider: FasterXML, LLC / Component(s): jackson-jaxrs-json-provider 2.9.7

```
jackson-jaxrs-json-provider 2.9.7
COPYRIGHT: Copyright Tatu Saloranta
LICENSE: Apache 2.0
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
```

```
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
```

```
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



==========================
4P Dependencies:

com.fasterxml.jackson.jaxrs » jackson-jaxrs-base 2.9.7
com.fasterxml.jackson.module » jackson-module-jaxb-annotations 2.9.7
com.fasterxml.jackson.core » jackson-core 2.9.7
com.fasterxml.jackson.core » jackson-databind 2.9.7
com.fasterxml.jackson.core » jackson-annotations 2.9.7 (upgrade from 2.9.0)
Apache 2.0 LICENSE for all
```

Provider: FasterXML, LLC / Component(s): jackson-jaxrs-json-provider 2.9.8

```
jackson-jaxrs-json-provider 2.9.7
COPYRIGHT: Copyright Tatu Saloranta
LICENSE: Apache 2.0
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
```

```
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
```

```
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



---------------------------
```

```
4P Dependencies:

com.fasterxml.jackson.jaxrs » jackson-jaxrs-base 2.9.7
com.fasterxml.jackson.module » jackson-module-jaxb-annotations 2.9.7
com.fasterxml.jackson.core » jackson-core 2.9.7
com.fasterxml.jackson.core » jackson-databind 2.9.7
com.fasterxml.jackson.core » jackson-annotations 2.9.7 (upgrade from 2.9.0)
Apache 2.0 LICENSE for all
```

Provider: FasterXML, LLC / Component(s): jackson-jaxrs-json-provider 2.9.9

```
jackson-jaxrs-json-provider 2.9.7
COPYRIGHT: Copyright Tatu Saloranta
LICENSE: Apache 2.0
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
```

```
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.
```

```
    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



==========================
4P Dependencies:

com.fasterxml.jackson.jaxrs » jackson-jaxrs-base 2.9.7
com.fasterxml.jackson.module » jackson-module-jaxb-annotations 2.9.7
com.fasterxml.jackson.core » jackson-core 2.9.7
com.fasterxml.jackson.core » jackson-databind 2.9.7
com.fasterxml.jackson.core » jackson-annotations 2.9.7 (upgrade from 2.9.0)
```

```
Apache 2.0 LICENSE for all
```

Provider: FasterXML, LLC / Component(s): jackson-module-afterburner 2.12.3

```
------------------------------- Top-level license -------------------------
This copy of Jackson JSON processor `jackson-module-afterburner` module is
 licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

    http://www.apache.org/licenses/LICENSE-2.0

Additional licensing information exists for following 3rd party library
 dependencies

### ASM

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
------------------------------- Copyright notices -------------------------
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
```

```
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

---------------------------- Fourth-party information ----------------------
== jackson-core 2.12.3
== License
Apache 2.0
== Copyright Notices
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
--------------------------------(separator)---------------------------------
== jackson-databind
== License
Apache 2.0
== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

Provider: FasterXML, LLC / Component(s): jackson-module-afterburner 2.13.4

```
jackson-module-afterburner

------------------------------- Top-level license -------------------------
                                 Apache License
                            Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
```

```
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
```

```
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Additional licensing information exists for following 3rd party library
 dependencies

### ASM

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
------------------------------- Copyright notices --------------------------
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing
```

```
Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

---------------------------- Fourth-party information -----------------------
== jackson-core
== License
Apache 2.0
== Copyright Notices
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
--------------------------------(separator)---------------------------------
== jackson-databind
== License
Apache 2.0
== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits
```

```
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
---------------------------------(separator)---------------------------------
== jackson-annotations
== License
== Copyright Notices
Apache 2.0
/*
 * Copyright 2007-present the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Provider: FasterXML, LLC / Component(s): jackson-module-afterburner 2.13.4

```
jackson-module-afterburner

------------------------------- Top-level license --------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
```

```
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
```

```
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Additional licensing information exists for following 3rd party library
 dependencies

### ASM

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
```

```
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
------------------------------- Copyright notices -------------------------
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components (as well their dependencies) may be
 licensed under
different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

---------------------------- Fourth-party information ----------------------
== jackson-core
== License
Apache 2.0
== Copyright Notices
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
```

```
from the source code management (SCM) system project uses.
---------------------------------(separator)----------------------------------
== jackson-databind
== License
Apache 2.0
== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
---------------------------------(separator)----------------------------------
== jackson-annotations
== License
== Copyright Notices
Apache 2.0
/*
 * Copyright 2007-present the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Provider:FasterXML, LLC / Component(s): jackson-module-afterburner 2.9.8

```
Jackson Module: Afterburner » 2.9.8
COPYRIGHT: (c) Fasterxml
LICENSE: Apache 2.0
LICENSE: Apache 2.0
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.
```

```
"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.
"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:
(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and
(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and
(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.
You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
```

```
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.
Copyright [yyyy] [name of copyright owner]
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-----------------
4P Dependency:
com.fasterxml.jackson.core » jackson-core 2.9.8
com.fasterxml.jackson.core » jackson-databind 2.9.8
com.fasterxml.jackson.core » jackson-annotations 2.9.8
COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.
"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:
(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and
(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and
(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
```

```
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.
You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
```

```
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.
Copyright [yyyy] [name of copyright owner]
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-module-afterburner 2.9.9

```
Jackson Module: Afterburner » 2.9.8
COPYRIGHT: (c) Fasterxml
LICENSE: Apache 2.0
LICENSE: Apache 2.0
                           Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.




==========================
4P Dependency:


com.fasterxml.jackson.core » jackson-core 2.9.8
com.fasterxml.jackson.core » jackson-databind 2.9.8
com.fasterxml.jackson.core » jackson-annotations 2.9.8

COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0
                            Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
```

```
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-module-jaxb-annotations 2.10.2

```
jackson-module-jaxb-annotations 2.10.2
COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi

LICENSE: Apache 2.0
                             Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-module-jaxb-annotations 2.11.3

```
NOTICE file from jackson-module-jaxb-annotations (URL: https://github.com/
FasterXML/jackson-modules-base/blob/master/jaxb/src/main/resources/META-INF/
NOTICE ):

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


LICENSE file from jackson-module-jaxb-annotations (URL: https://github.com/
FasterXML/jackson-modules-base/blob/master/jaxb/src/main/resources/META-INF/
LICENSE ):

This copy of Jackson JSON processor `jackson-module-jaxb-annotations` module
 is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.



Fourth-party dependencies of jackson-module-jaxb-annotations are:
```

```
1. jackson-annotations
2. jackson-databind
3. jackson-core
4. jakarta.activation
5. jakarta.xml.bind



NOTICE file from jackson-annotations:

No NOTICE file present in source code repository.


LICENSE file from jackson-annotations (URL: https://github.com/FasterXML/
jackson-annotations/blob/master/src/main/resources/META-INF/LICENSE ):

This copy of Jackson JSON processor annotations is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.



NOTICE file from jackson-databind (URL: https://github.com/FasterXML/
jackson-databind/blob/master/src/main/resources/META-INF/NOTICE ):

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


LICENSE file from jackson-databind (URL: https://github.com/FasterXML/
jackson-databind/blob/master/src/main/resources/META-INF/LICENSE ):

This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.



NOTICE file from jackson-core (URL: https://github.com/FasterXML/jackson-
core/blob/master/src/main/resources/META-INF/NOTICE ):
```

```
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


LICENSE file from jackson-core (URL: https://github.com/FasterXML/jackson-
core/blob/master/src/main/resources/META-INF/LICENSE ):

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.



LICENSE file from jakarta.activation (URL: https://github.com/eclipse-ee4j/
jaf/blob/master/LICENSE.md ):

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
```

```
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



LICENSE file from jakarta.xml.bind (URL: https://github.com/eclipse-ee4j/
jaxb-api/blob/master/LICENSE.md ):

Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



The Apache 2.0 License:


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
```

```
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-module-jaxb-annotations 2.9.7

```
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
```

```
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-module-parameter-names 2.12.3

```
------------------------------- Top-level license -------------------------
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
```

```
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------- Copyright notices --------------------------
/*
 * Copyright 2013 FasterXML.com
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 * not use this file except in compliance with the License. You may obtain
 * a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the license for the specific language governing permissions and
 * limitations under the license.
 */
---------------------------- Fourth-party information ----------------------
== jackson-core 2.12.3
== License
Apache 2.0
== Copyright Notices
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

```
--------------------------------(separator)---------------------------------
== jackson-databind
== License
Apache 2.0
== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

Provider: FasterXML, LLC / Component(s): jackson-module-parameter-names 2.9.8

```
COPYRIGHT: Copyright 2013 FasterXML.com

LICENSE:
                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
```

```
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
```

```
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: FasterXML, LLC / Component(s): jackson-modules-base 2.9.9

```
jackson modules base 2.9.9
COPYRIGHT: (C) Fasterxml. All rights reserved.


LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
```

```
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
```

```
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


===========================
Modules:

jaxb
afterburner
guice
mrbean
osgi
paranamer

===========================
4P Dependencies:

google guava 18.0 (upgrade to 27.0.1-jre)
COPYRIGHT:  Copyright (C) 2008 The Guava Authors
LICENSE: Apache 2.0 https://github.com/google/guava/blob/v27.0.1/COPYING


---
com.fasterxml.jackson.core jackson-core 2.9.9
com.fasterxml.jackson.core jackson-databind 2.9.9
COPYRIGHT:
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
Copyright (C) Fasterxml
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0


---
org.ow2.asm 5.2
COPYRIGHT and LICENSE:
 ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
```

```
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.



---
com.google.inject guice 3.0 / 5.0
COPYRIGHT: Copyright (C) 2006 - 2012 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/guice/blob/master/COPYING


----
org.osgi.core 5.0.0
COPYRIGHT: (C) OSGI Alliance
LICENSE: OSGI License v2.0

Licensing

OSGi Specification License, Version 2.0.

License Grant

OSGi Alliance (“OSGi”) hereby grants you a fully-paid, non-exclusive, non-
transferable, worldwide, limited license (without the right to sublicense),
 under OSGi’s applicable intellectual property rights to view, download,
 and reproduce this OSGi Specification (“Specification”) which follows
 this License Agreement (“Agreement”). You are not authorized to create
 any derivative work of the Specification. However, to the extent that an
 implementation of the Specification would necessarily be a derivative work
 of the Specification, OSGi also grants you a perpetual, non-exclusive,
 worldwide, fully paid-up, royalty free, limited license (without the right
 to sublicense) under any applicable copyrights, to create and/or distribute
 an implementation of the Specification that: (i) fully implements the
 Specification including all its required interfaces and functionality; (ii)
 does not modify, subset, superset or otherwise extend the OSGi Name Space,
 or include any public or protected packages, classes, Java interfaces,
 fields or methods within the OSGi Name Space other than those required
 and authorized by the Specification. An implementation that does not
 satisfy limitations (i)-(ii) is not considered an implementation of the
 Specification, does not receive the benefits of this license, and must not
 be described as an implementation of the Specification. An implementation
 of the Specification must not claim to be a compliant implementation
 of the Specification unless it passes the OSGi Compliance Tests for the
 Specification in accordance with OSGi processes. “OSGi Name Space” shall
```

```
 mean the public class or interface declarations whose names begin with
 “org.osgi” or any recognized successors or replacements thereof.

OSGi Participants (as such term is defined in the OSGi Intellectual Property
 Rights Policy) have made non-assert and licensing commitments regarding
 patent claims necessary to implement the Specification, if any, under the
 OSGi Intellectual Property Rights Policy which is available for examination
 on the OSGi public web site (www.osgi.org).

No Warranties and Limitation of Liability

THE SPECIFICATION IS PROVIDED “AS IS,” AND OSGi AND ANY OTHER AUTHORS
 MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT
 NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
 PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE SPECIFICATION
 ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS
 WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER
 RIGHTS. OSGi AND ANY OTHER AUTHORS WILL NOT BE LIABLE FOR ANY DIRECT,
 INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF
 ANY USE OF THE SPECIFICATION OR THE PERFORMANCE OR IMPLEMENTATION OF THE
 CONTENTS THEREOF.

Covenant Not to Assert

As a material condition to this license you hereby agree, to the extent
 that you have any patent claims which are necessarily infringed by an
 implementation of the Specification, not to assert any such patent claims
 against the creation, distribution or use of an implementation of the
 Specification.

General

The name and trademarks of OSGi or any other Authors may NOT be used in any
 manner, including advertising or publicity pertaining to the Specification
 or its contents without specific, written prior permission. Title to
 copyright in the Specification will at all times remain with OSGi.

No other rights are granted by implication, estoppel or otherwise.


---
com.thoughtworks.paranamer 2.8
COPYRIGHT and LICENSE:
[ ParaNamer used to be 'Pubic Domain', but since it includes a small piece
 of ASM it is now the same license as that: BSD ]

 Portions copyright (c) 2006-2018 Paul Hammant & ThoughtWorks Inc
 Portions copyright (c) 2000-2007 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: FasterXML, LLC / Component(s): jackson-module-scala 2.9.8

```
COPYRIGHT: Author Tatu Saloranta & Fasterxml
LICENSE: Apache 2.0


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
```

```
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
```

```
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


==========================
4P Dependencies:


com.fasterxml.jackson.core » jackson-core 2.9.8
com.fasterxml.jackson.core » jackson-core 2.9.8
com.fasterxml.jackson.core » jackson-databind 2.9.8
com.fasterxml.jackson.module » jackson-module-paranamer 2.9.8
Copyright: (C) 2007 - Tatu Saloranta & 2013 Fasterxml
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0.txt

---
org.scala-lang » scala-library 2.12.8
COPYRIGHT:

Copyright (c) 2002-2018 EPFL
Copyright (c) 2011-2018 Lightbend, Inc.

LICENSE: Apache 2.0 https://github.com/scala/scala/blob/v2.12.8/LICENSE

Scala includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This software includes projects with other licenses -- see `doc/LICENSE.md`.



---
com.thoughtworks.paranamer:paranamer:jar:2.8


 Portions copyright (c) 2006-2018 Paul Hammant & ThoughtWorks Inc
 Portions copyright (c) 2000-2007 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: FasterXML, LLC / Component(s): jackson-module-scala 2.9.9

```
COPYRIGHT: Author Tatu Saloranta & Fasterxml
LICENSE: Apache 2.0


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


===========================
4P Dependencies:


com.fasterxml.jackson.core » jackson-core 2.9.8
com.fasterxml.jackson.core » jackson-core 2.9.8
com.fasterxml.jackson.core » jackson-databind 2.9.8
com.fasterxml.jackson.module » jackson-module-paranamer 2.9.8
Copyright: (C) 2007 - Tatu Saloranta & 2013 Fasterxml
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0.txt

---
org.scala-lang » scala-library 2.12.8
COPYRIGHT:

Copyright (c) 2002-2018 EPFL
Copyright (c) 2011-2018 Lightbend, Inc.

LICENSE: Apache 2.0 https://github.com/scala/scala/blob/v2.12.8/LICENSE

Scala includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This software includes projects with other licenses -- see `doc/LICENSE.md`.



---
com.thoughtworks.paranamer:paranamer:jar:2.8


 Portions copyright (c) 2006-2018 Paul Hammant & ThoughtWorks Inc
 Portions copyright (c) 2000-2007 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
```

```
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: FasterXML, LLC. / Component(s): jackson-datatype-jsr310 2.17.1

```
LICENSE (LICENSE file):
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

      TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

      1. Definitions.

         "License" shall mean the terms and conditions for use,
 reproduction,
         and distribution as defined by Sections 1 through 9 of this
 document.

         "Licensor" shall mean the copyright owner or entity authorized by
         the copyright owner that is granting the License.

         "Legal Entity" shall mean the union of the acting entity and all
         other entities that control, are controlled by, or are under common
         control with that entity. For the purposes of this definition,
         "control" means (i) the power, direct or indirect, to cause the
         direction or management of such entity, whether by contract or
         otherwise, or (ii) ownership of fifty percent (50%) or more of the
         outstanding shares, or (iii) beneficial ownership of such entity.

         "You" (or "Your") shall mean an individual or Legal Entity
         exercising permissions granted by this License.

         "Source" form shall mean the preferred form for making
 modifications,
         including but not limited to software source code, documentation
         source, and configuration files.

         "Object" form shall mean any form resulting from mechanical
         transformation or translation of a Source form, including but
         not limited to compiled object code, generated documentation,
         and conversions to other media types.

         "Work" shall mean the work of authorship, whether in Source or
         Object form, made available under the License, as indicated by a
         copyright notice that is included in or attached to the work
         (an example is provided in the Appendix below).

         "Derivative Works" shall mean any work, whether in Source or Object
         form, that is based on (or derived from) the Work and for which the
         editorial revisions, annotations, elaborations, or other
 modifications
         represent, as a whole, an original work of authorship. For the
 purposes
         of this License, Derivative Works shall not include works that
 remain
```

```
        separable from, or merely link (or bind by name) to the interfaces
of,
        the Work and Derivative Works thereof.

        "Contribution" shall mean any work of authorship, including
        the original version of the Work and any modifications or additions
        to that Work or Derivative Works thereof, that is intentionally
        submitted to Licensor for inclusion in the Work by the copyright
owner
        or by an individual or Legal Entity authorized to submit on behalf
of
        the copyright owner. For the purposes of this definition,
"submitted"
        means any form of electronic, verbal, or written communication sent
        to the Licensor or its representatives, including but not limited
to
        communication on electronic mailing lists, source code control
systems,
        and issue tracking systems that are managed by, or on behalf of,
the
        Licensor for the purpose of discussing and improving the Work, but
        excluding communication that is conspicuously marked or otherwise
        designated in writing by the copyright owner as "Not a
Contribution."

        "Contributor" shall mean Licensor and any individual or Legal
Entity
        on behalf of whom a Contribution has been received by Licensor and
        subsequently incorporated within the Work.

     2. Grant of Copyright License. Subject to the terms and conditions of
        this License, each Contributor hereby grants to You a perpetual,
        worldwide, non-exclusive, no-charge, royalty-free, irrevocable
        copyright license to reproduce, prepare Derivative Works of,
        publicly display, publicly perform, sublicense, and distribute the
        Work and such Derivative Works in Source or Object form.

     3. Grant of Patent License. Subject to the terms and conditions of
        this License, each Contributor hereby grants to You a perpetual,
        worldwide, non-exclusive, no-charge, royalty-free, irrevocable
        (except as stated in this section) patent license to make, have
made,
        use, offer to sell, sell, import, and otherwise transfer the Work,
        where such license applies only to those patent claims licensable
        by such Contributor that are necessarily infringed by their
        Contribution(s) alone or by combination of their Contribution(s)
        with the Work to which such Contribution(s) was submitted. If You
        institute patent litigation against any entity (including a
        cross-claim or counterclaim in a lawsuit) alleging that the Work
        or a Contribution incorporated within the Work constitutes direct
        or contributory patent infringement, then any patent licenses
        granted to You under this License for that Work shall terminate
        as of the date such litigation is filed.

     4. Redistribution. You may reproduce and distribute copies of the
        Work or Derivative Works thereof in any medium, with or without
        modifications, and in Source or Object form, provided that You
        meet the following conditions:

        (a) You must give any other recipients of the Work or
            Derivative Works a copy of this License; and

        (b) You must cause any modified files to carry prominent notices
            stating that You changed the files; and
```

```
        (c) You must retain, in the Source form of any Derivative Works
            that You distribute, all copyright, patent, trademark, and
            attribution notices from the Source form of the Work,
            excluding those notices that do not pertain to any part of
            the Derivative Works; and

        (d) If the Work includes a "NOTICE" text file as part of its
            distribution, then any Derivative Works that You distribute
must
            include a readable copy of the attribution notices contained
            within such NOTICE file, excluding those notices that do not
            pertain to any part of the Derivative Works, in at least one
            of the following places: within a NOTICE text file distributed
            as part of the Derivative Works; within the Source form or
            documentation, if provided along with the Derivative Works; or,
            within a display generated by the Derivative Works, if and
            wherever such third-party notices normally appear. The contents
            of the NOTICE file are for informational purposes only and
            do not modify the License. You may add Your own attribution
            notices within Derivative Works that You distribute, alongside
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

     5. Submission of Contributions. Unless You explicitly state otherwise,
        any Contribution intentionally submitted for inclusion in the Work
        by You to the Licensor shall be under the terms and conditions of
        this License, without any additional terms or conditions.
        Notwithstanding the above, nothing herein shall supersede or modify
        the terms of any separate license agreement you may have executed
        with Licensor regarding such Contributions.

     6. Trademarks. This License does not grant permission to use the trade
        names, trademarks, service marks, or product names of the Licensor,
        except as required for reasonable and customary use in describing
the
        origin of the Work and reproducing the content of the NOTICE file.

     7. Disclaimer of Warranty. Unless required by applicable law or
        agreed to in writing, Licensor provides the Work (and each
        Contributor provides its Contributions) on an "AS IS" BASIS,
        WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
        implied, including, without limitation, any warranties or
conditions
        of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
        PARTICULAR PURPOSE. You are solely responsible for determining the
        appropriateness of using or redistributing the Work and assume any
        risks associated with Your exercise of permissions under this
License.

     8. Limitation of Liability. In no event and under no legal theory,
        whether in tort (including negligence), contract, or otherwise,
        unless required by applicable law (such as deliberate and grossly
        negligent acts) or agreed to in writing, shall any Contributor be
        liable to You for damages, including any direct, indirect, special,
        incidental, or consequential damages of any character arising as a
```

```
         result of this License or out of the use or inability to use the
         Work (including but not limited to damages for loss of goodwill,
         work stoppage, computer failure or malfunction, or any and all
         other commercial damages or losses), even if such Contributor
         has been advised of the possibility of such damages.

      9. Accepting Warranty or Additional Liability. While redistributing
         the Work or Derivative Works thereof, You may choose to offer,
         and charge a fee for, acceptance of support, warranty, indemnity,
         or other liability obligations and/or rights consistent with this
         License. However, in accepting such obligations, You may act only
         on Your own behalf and on Your sole responsibility, not on behalf
         of any other Contributor, and only if You agree to indemnify,
         defend, and hold each Contributor harmless for any liability
         incurred by, or claims asserted against, such Contributor by reason
         of your accepting any such warranty or additional liability.

      END OF TERMS AND CONDITIONS

      APPENDIX: How to apply the Apache License to your work.

         To apply the Apache License to your work, attach the following
         boilerplate notice, with the fields enclosed by brackets "[]"
         replaced with your own identifying information. (Don't include
         the brackets!)  The text should be enclosed in the appropriate
         comment syntax for the file format. We also recommend that a
         file or class name and description of purpose be included on the
         same "printed page" as the copyright notice for easier
         identification within third-party archives.

      Copyright [yyyy] [name of copyright owner]

      Licensed under the Apache License, Version 2.0 (the "License");
      you may not use this file except in compliance with the License.
      You may obtain a copy of the License at

          http://www.apache.org/licenses/LICENSE-2.0

      Unless required by applicable law or agreed to in writing, software
      distributed under the License is distributed on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
      See the License for the specific language governing permissions and
      limitations under the License.


NOTICE (NOTICE file)
    # Jackson JSON processor

    Jackson is a high-performance, Free/Open Source JSON processing library.
    It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
    been in development since 2007.
    It is currently developed by a community of developers.

    ## Licensing

    Jackson components are licensed under Apache (Software) License, version
 2.0,
    as per accompanying LICENSE file.

    ## Credits

    A list of contributors may be found from CREDITS file, which is included
```

```
    in some artifacts (usually source distributions); but is always
 available
    from the source code management (SCM) system project uses.


DEPENDENCIES:
    Jackson-annotations (com.fasterxml.jackson.core:jackson-annotations)
    Jackson-core (com.fasterxml.jackson.core:jackson-core)
    jackson-databind (com.fasterxml.jackson.core:jackson-databind)
    FastDoubleParser (ch.randelshofer:fastdoubleparser)



========================== com.fasterxml.jackson.core:jackson-annotations
 ============================
LICENSE (LICENSE file):
    Apache License; Version 2.0, January 2004; https://www.apache.org/
licenses/LICENSE-2.0


NOTICE (NOTICE file):
    # Jackson JSON processor

    Jackson is a high-performance, Free/Open Source JSON processing library.
    It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
    been in development since 2007.
    It is currently developed by a community of developers.

    ## Copyright

    Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

    ## Licensing

    Jackson 2.x core and extension components are licensed under Apache
 License 2.0
    To find the details that apply to this artifact see the accompanying
 LICENSE file.

    ## Credits

    A list of contributors may be found from CREDITS(-2.x) file, which is
 included
    in some artifacts (usually source distributions); but is always
 available
    from the source code management (SCM) system project uses.



========================== com.fasterxml.jackson.core:jackson-core
 ============================
LICENSE (jackson-core-LICENSE file):
    Apache License; Version 2.0, January 2004; https://www.apache.org/
licenses/LICENSE-2.0


NOTICE (jackson-core-NOTICE file):
    # Jackson JSON processor

    Jackson is a high-performance, Free/Open Source JSON processing library.
    It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
    been in development since 2007.
```

```
    It is currently developed by a community of developers.

    ## Copyright

    Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

    ## Licensing

    Jackson 2.x core and extension components are licensed under Apache
 License 2.0
    To find the details that apply to this artifact see the accompanying
 LICENSE file.

    ## Credits

    A list of contributors may be found from CREDITS(-2.x) file, which is
 included
    in some artifacts (usually source distributions); but is always
 available
    from the source code management (SCM) system project uses.

    ## FastDoubleParser

    jackson-core bundles a shaded copy of FastDoubleParser <https://
github.com/wrandelshofer/FastDoubleParser>.
    That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
    under the following copyright.

    Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

    See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
    and the licenses and copyrights that apply to that code.



========================== com.fasterxml.jackson.core:jackson-databind
 ============================
LICENSE (LICENSE file):
    Apache License; Version 2.0, January 2004; https://www.apache.org/
licenses/LICENSE-2.0


NOTICE (NOTICE file):
    # Jackson JSON processor

    Jackson is a high-performance, Free/Open Source JSON processing library.
    It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
    been in development since 2007.
    It is currently developed by a community of developers.

    ## Copyright

    Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

    ## Licensing

    Jackson 2.x core and extension components are licensed under Apache
 License 2.0
    To find the details that apply to this artifact see the accompanying
 LICENSE file.
```

```
    ## Credits

    A list of contributors may be found from CREDITS(-2.x) file, which is
 included
    in some artifacts (usually source distributions); but is always
 available
    from the source code management (SCM) system project uses.



========================== FastDoubleParser
 (ch.randelshofer:fastdoubleparser) ============================

LICENSE (LICENSE file):
    MIT License

    Copyright (c) 2023 Werner Randelshofer, Switzerland.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE.


NOTICE (NOTICE file):
    # FastDoubleParser

    This is a Java port of Daniel Lemire's fast_float project.
    This project provides parsers for double, float, BigDecimal and
 BigInteger values.

    ## Copyright

    Copyright © 2023 Werner Randelshofer, Switzerland.

    ## Licensing

    This code is licensed under MIT License.
    https://github.com/wrandelshofer/FastDoubleParser/
blob/522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
    (The file 'LICENSE' is included in the sources and classes Jar files
 that are released by this project
```

```
    - as is required by that license.)

    Some portions of the code have been derived from other projects.
    All these projects require that we include a copyright notice, and some
 require that we also include some text of their
    license file.

    fast_double_parser, Copyright (c) 2022 Daniel Lemire. BSL License.
    https://github.com/lemire/fast_double_parser
    https://github.com/lemire/fast_double_parser/
blob/07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE.BSL
    (The file 'thirdparty-LICENSE' is included in the sources and classes
 Jar files that are released by this project
    - as is required by that license.)

    fast_float, Copyright (c) 2021 The fast_float authors. MIT License.
    https://github.com/fastfloat/fast_float
    https://github.com/fastfloat/fast_float/blob/
cc1e01e9eee74128e48d51488a6b1df4a767a810/LICENSE-MIT
    (The file 'thirdparty-LICENSE' is included in the sources and classes
 Jar files that are released by this project
    - as is required by that license.)

    bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
    https://github.com/tbuktu/bigint/tree/floatfft
    https://github.com/tbuktu/bigint/
blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
    https://github.com/wrandelshofer/FastDoubleParser/
blob/39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
    (We only use those portions of the bigint project that can be licensed
 under 2-clause BSD License.)
    (The file 'thirdparty-LICENSE' is included in the sources and classes
 Jar files that are released by this project
    - as is required by that license.)
```

Provider: FasterXML,LLC / Component(s): Jackson Core 2.17.0

```
=====================================================
 Top level component : jackson-core 2.17.0
=====================================================
License
-------
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=====================================================
NOTICE
=====================================================

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
```

```
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.

=======================================================
Fourth-party dependency : ch.randelshofer.fastdoubleparser
=======================================================
 MIT License

 Copyright (c) 2021 Werner Randelshofer, Switzerland.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all
 copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
 SOFTWARE.
```

```
=====================================================
# FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger
 values.

## Copyright

Copyright © 2023 Werner Randelshofer, Switzerland.

## Licensing

This code is licensed under MIT License.
https://github.com/wrandelshofer/FastDoubleParser/
blob/522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
(The file 'LICENSE' is included in the sources and classes Jar files that
 are released by this project
- as is required by that license.)

Some portions of the code have been derived from other projects.
All these projects require that we include a copyright notice, and some
 require that we also include some text of their
license file.

fast_double_parser, Copyright (c) 2022 Daniel Lemire. Apache 2.0 License.
https://github.com/fastfloat/fast_float
https://github.com/fastfloat/fast_float/blob/
dc88f6f882ac7eb8ec3765f633835cb76afa0ac2/LICENSE-APACHE

fast_float, Copyright (c) 2021 The fast_float authors. Apache 2.0 License.
https://github.com/fastfloat/fast_float
https://github.com/lemire/fast_double_parser/
blob/07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE

bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
https://github.com/tbuktu/bigint/tree/floatfft
https://github.com/tbuktu/bigint/
blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
https://github.com/wrandelshofer/FastDoubleParser/
blob/39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
(We only use those portions of the bigint project that can be licensed under
 2-clause BSD License.)
(The file 'bigint-LICENSE' is included in the sources and classes Jar files
 that are released by this project
- as is required by that license.)
```

Provider: FasterXML,LLC / Component(s): jackson-dataformat-csv 2.16.1

```
Copyright: FasterXML,LLC
License: Apache 2.0

 https://www.apache.org/licenses/LICENSE-2.0

                                 Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
```

```
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
```

```
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-------------- Separator --------------
./csv/src/main/resources/META-INF/NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson components are licensed under Apache (Software) License, version
 2.0,
as per accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


-------------- Separator --------------


Dependency: com.fasterxml.jackson.core:jackson-annotations
Copyright: FasterXML,LLC
License: Apache 2.0

 ./LICENSE

Apache 2.0

-------------- Separator --------------
./src/main/resources/META-INF/NOTICE
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
```

```
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
-------------- Separator --------------
Dependency: com.fasterxml.jackson.core:jackson-core
Copyright: FasterXML,LLC
License: Apache 2.0

 ./LICENSE

Apache 2.0

-------------- Separator --------------

 ./src/main/resources/META-INF/NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.


-------------- Separator --------------

Dependency: com.fasterxml.jackson.core:jackson-databind
Copyright: FasterXML,LLC
License: Apache 2.0

 ./LICENSE

Apache 2.0
```

```
-------------- Separator --------------
src/main/resources/META-INF/NOTICE

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

-------------- Separator --------------

Dependency: com.fasterxml.jackson.core:jackson-bom
Copyright: FasterXML,LLC
License: Apache 2.0

 ./LICENSE

Apache 2.0

-------------- Separator --------------

Dependency: ch.randelshofer:fastdoubleparser
Copyright: Werner Randelshofer
License: MIT License

 ./LICENSE

MIT License

Copyright (c) 2023 Werner Randelshofer, Switzerland.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------- Separator --------------
./NOTICE
# FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger
 values.

## Copyright

Copyright © 2023 Werner Randelshofer, Switzerland.

## Licensing

This code is licensed under MIT License.
https://github.com/wrandelshofer/FastDoubleParser/
blob/522be16e145f43308c43b23094e31d5efcaa580e/LICENSE
(The file 'LICENSE' is included in the sources and classes Jar files that
 are released by this project
- as is required by that license.)

Some portions of the code have been derived from other projects.
All these projects require that we include a copyright notice, and some
 require that we also include some text of their
license file.

fast_double_parser, Copyright (c) 2022 Daniel Lemire. BSL License.
https://github.com/lemire/fast_double_parser
https://github.com/lemire/fast_double_parser/
blob/07d9189a8fb815fe800cb15ca022e7a07093236e/LICENSE.BSL
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar
 files that are released by this project
- as is required by that license.)

fast_float, Copyright (c) 2021 The fast_float authors. MIT License.
https://github.com/fastfloat/fast_float
https://github.com/fastfloat/fast_float/blob/
cc1e01e9eee74128e48d51488a6b1df4a767a810/LICENSE-MIT
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar
 files that are released by this project
- as is required by that license.)

bigint, Copyright 2020 Tim Buktu. 2-clause BSD License.
https://github.com/tbuktu/bigint/tree/floatfft
https://github.com/tbuktu/bigint/
blob/617c8cd8a7c5e4fb4d919c6a4d11e2586107f029/LICENSE
https://github.com/wrandelshofer/FastDoubleParser/
blob/39e123b15b71f29a38a087d16a0bc620fc879aa6/bigint-LICENSE
(We only use those portions of the bigint project that can be licensed under
 2-clause BSD License.)
(The file 'thirdparty-LICENSE' is included in the sources and classes Jar
 files that are released by this project
- as is required by that license.)
```

Provider: Florian octo Forster et al. / Component(s): Collectd 5.7.1

```
CollectD:
https://github.com/collectd/collectd/blob/master/COPYING

MIT License
===========
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------------------------------
Dependencies
----------------------------------------------------------------------


libtool-ltdl Ð LGPL

https://www.gnu.org/software/libtool/manual/html_node/Using-libltdl.html

License text:
https://www.gnu.org/licenses/lgpl.html

------------------------------------------------------------------------------------


libc - LGPL

GNU C library
Copyright © 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

License text:
https://www.gnu.org/software/libc/manual/html_mono/libc.html#Copying

------------------------------------------------------------------------------------

libpython - PSF

Copyright © 2001-2016 Python Software Foundation. All rights reserved.
```

```
1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   2.7.13 software in source or binary form and its associated
 documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 2.7.13 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2017 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 2.7.13 alone or in any derivative
 version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 2.7.13 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
   agrees to include in any such work a brief summary of the changes made to
 Python
   2.7.13.

4. PSF is making Python 2.7.13 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 2.7.13 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.13
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.13, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 2.7.13, Licensee agrees
   to be bound by the terms and conditions of this License Agreement.

--------------------------------------------------------------------------------
asn1crypto Ð MIT
https://pypi.python.org/pypi/asn1crypto/0.22.0
```

```
https://github.com/wbond/asn1crypto/blob/master/LICENSE

Copyright (c) 2015-2017 Will Bond <will@wbond.net>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

cffi Ð MIT
https://pypi.python.org/pypi/cffi/1.10.0
http://cffi.readthedocs.io/en/latest/

© Copyright 2012-2015, Armin Rigo, Maciej Fijalkowsk

--------------------------------------------------------------------------------

cryptography Ð BSD or Apache, Version 2.0
https://pypi.python.org/pypi/cryptography/2.0.3

https://github.com/pyca/cryptography/blob/master/LICENSE.APACHE
https://github.com/pyca/cryptography/blob/master/LICENSE.BSD
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to cryptography are
 made
under the terms of *both* these licenses.

The code used in the OpenSSL locking callback and OS random engine is
 derived
from the same in CPython itself, and is licensed under the terms of the PSF
License Agreement.

Copyright (c) Individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.
```

```
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. Neither the name of PyCA Cryptography nor the names of its
 contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------

enum34 Ð BSD
https://pypi.python.org/pypi/enum34/1.1.6
https://bitbucket.org/stoneleaf/enum34/src/
f24487b45cd041fc9406d67441d2186ac70772b7/enum/LICENSE?at=default

Copyright (c) 2013, Ethan Furman.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    Redistributions of source code must retain the above
    copyright notice, this list of conditions and the
    following disclaimer.

    Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name Ethan Furman nor the names of any
    contributors may be used to endorse or promote products
    derived from this software without specific prior written
```

```
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------------------------------------
httpsig_cffi Ð MIT
https://pypi.python.org/pypi/httpsig_cffi/15.0.0
https://github.com/hawkowl/httpsig_cffi/blob/master/LICENSE.txt

Copyright (c) 2014 Adam Knight
Copyright (c) 2012 Adam T. Lindsay (original author)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------------------
idna Ð BSD-like
https://pypi.python.org/pypi/idna/2.6
https://github.com/kjd/idna/blob/master/LICENSE.rst

Copyright (c) 2013-2017, Kim Davies. All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of the
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
4. THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY EXPRESS OR
 IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
```

```
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
Portions of the codec implementation and unit tests are derived from the
 Python standard library, which carries theÊPython Software Foundation
 License:
Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved
Portions of the unit tests are derived from the Unicode standard, which is
 subject to the Unicode, Inc. License Agreement:
Copyright (c) 1991-2014 Unicode, Inc. All rights reserved. Distributed under
 the Terms of Use in <http://www.unicode.org/copyright.html>.
Permission is hereby granted, free of charge, to any person obtaining
 a copy of the Unicode data files and any associated documentation (the
 "Data Files") or Unicode software and any associated documentation (the
 "Software") to deal in the Data Files or Software without restriction,
 including without limitation the rights to use, copy, modify, merge,
 publish, distribute, and/or sell copies of the Data Files or Software, and
 to permit persons to whom the Data Files or Software are furnished to do
 so, provided that
(a) this copyright and permission notice appear with all copies of the Data
 Files or Software,
(b) this copyright and permission notice appear in associated documentation,
 and
(c) there is clear notice in each modified Data File or in the Software as
 well as in the documentation associated with the Data File(s) or Software
 that the data or software has been modified.
THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
 OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS
 INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT
 OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
 OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THE DATA FILES OR SOFTWARE.
Except as contained in this notice, the name of a copyright holder shall
 not be used in advertising or otherwise to promote the sale, use or
 other dealings in these Data Files or Software without prior written
 authorization of the copyright holder.

--------------------------------------------------------------------------------------------
ipaddress Ð Python Software Foundation
https://pypi.python.org/pypi/ipaddress/1.0.18
https://github.com/phihag/ipaddress/blob/master/LICENSE

This package is a modified version of cpython's ipaddress module.
It is therefore distributed under the PSF license, as follows:

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
```

```
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are
retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

-----------------------------------------------------------------------------------------
pyOpenSSL Ð Apache
https://pypi.python.org/pypi/pyOpenSSL/17.2.0
https://github.com/pyca/pyopenssl/blob/master/LICENSE

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
```

```
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------
pycparser Ð BSD

https://pypi.python.org/pypi/pycparser/2.18
https://github.com/eliben/pycparser/blob/master/LICENSE

pycparser -- A C parser in Python

Copyright (c) 2008-2017, Eli Bendersky
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of Eli Bendersky nor the names of its contributors may
  be used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.

--------------------------------------------------------------------------------
requests Ð Apache
https://pypi.python.org/pypi/requests/2.11.1

http://docs.python-requests.org/en/master/user/intro/#requests-license
Copyright 2017 Kenneth Reitz
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except in compliance with the License. You may obtain a copy
 of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.

--------------------------------------------------------------------------------
six Ð MIT
https://pypi.python.org/pypi/six/1.10.0
https://bitbucket.org/gutworth/six/
src/92e1c746e1abfbdb94705b821bc93766083efc54/LICENSE?at=default

Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Fluentd Authors / Component(s): Fluentd 1.15.3

```
Fluentd (Apache 2.0)
=================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2011-2018 Fluentd Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

4th party dependencies
=======================

=================
bundler
MIT Licese

Copyright (c) Chad Fowler, Rich Kilmer, Jim Weirich and others.

Portions copyright (c) Engine Yard and Andre Arko


Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the

'Software'), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to

the following conditions:


The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY

CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE

SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================
msgpack

Copyright (c) 2008-2015 Sadayuki Furuhashi


                        Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/


===========================

cool.io

MIT License

Copyright (c) 2007-10 Tony Arcieri

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========================================
http_parser.rb

MIT License

Copyright 2009,2010 Marc-André Cournoyer <macournoyer@gmail.com>
Copyright 2010,2011 Aman Gupta <aman@tmm1.net>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
```

```
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
==============================================
serverengine

Copyright (C) 2012-2013 Sadayuki Furuhashi

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/


==============================================
sigdump

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/



   Copyright 2011-2018 Fluentd Authors

=======================================================
strptime

BSD-2-CLAUSE

Copyright (C) 2015 NARUSE, Yui. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

ext/strptime/strptime.c:
  date_strptime.c: Coded by Tadayoshi Funaba 2011,2012
```

```
  Copyright (C) 2004-2007 Koichi Sasada
==============================================================
tzinfo

MIT License

Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==================================================
concurrent-ruby

Copyright (c) Jerry D'Antonio -- released under the MIT license.

http://www.opensource.org/licenses/mit-license.php

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
=============================================
tzinfo-data

MIT License
```

```
Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
====================================================
webrick

BSD-2-CLAUSE

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
================================================
yajl-ruby

The MIT License (MIT)

Copyright (c) 2014 Brian Lopez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
================================================
```

Provider: Fluentd Authors / Component(s): Fluentd 1.17.1

```
Fluentd (Apache 2.0)
=================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2011-2018 Fluentd Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

4th party dependencies
=======================

=================
bundler
MIT Licese

Copyright (c) Chad Fowler, Rich Kilmer, Jim Weirich and others.

Portions copyright (c) Engine Yard and Andre Arko


Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the

'Software'), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to

the following conditions:
```

```
The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.


THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY

CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE

SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================
msgpack

Copyright (c) 2008-2015 Sadayuki Furuhashi


                         Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/


==========================

cool.io

MIT License

Copyright (c) 2007-10 Tony Arcieri

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========================================
http_parser.rb

MIT License

Copyright 2009,2010 Marc-André Cournoyer <macournoyer@gmail.com>
Copyright 2010,2011 Aman Gupta <aman@tmm1.net>

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
===============================================
serverengine

Copyright (C) 2012-2013 Sadayuki Furuhashi

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/


===============================================
sigdump

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/



   Copyright 2011-2018 Fluentd Authors

=======================================================
strptime

BSD-2-CLAUSE

Copyright (C) 2015 NARUSE, Yui. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
```

```
ext/strptime/strptime.c:
  date_strptime.c: Coded by Tadayoshi Funaba 2011,2012
  Copyright (C) 2004-2007 Koichi Sasada
==============================================================
tzinfo

MIT License

Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==================================================
concurrent-ruby

Copyright (c) Jerry D'Antonio -- released under the MIT license.

http://www.opensource.org/licenses/mit-license.php

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
=============================================
tzinfo-data
```

```
MIT License

Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
====================================================
webrick

BSD-2-CLAUSE

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
================================================
yajl-ruby

The MIT License (MIT)

Copyright (c) 2014 Brian Lopez

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
================================================

drb
---------------
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
=====================================================

base64
-------------

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
==============================================================

csv
-------------

Copyright (C) 2005-2016 James Edward Gray II. All rights reserved.
Copyright (C) 2007-2017 Yukihiro Matsumoto. All rights reserved.
Copyright (C) 2017 SHIBATA Hiroshi. All rights reserved.
Copyright (C) 2017 Olivier Lacan. All rights reserved.
Copyright (C) 2017 Espartaco Palma. All rights reserved.
Copyright (C) 2017 Marcus Stollsteimer. All rights reserved.
Copyright (C) 2017 pavel. All rights reserved.
Copyright (C) 2017-2018 Steven Daniels. All rights reserved.
Copyright (C) 2018 Tomohiro Ogoke. All rights reserved.
Copyright (C) 2018 Kouhei Sutou. All rights reserved.
Copyright (C) 2018 Mitsutaka Mimura. All rights reserved.
Copyright (C) 2018 Vladislav. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
==============================================================

logger
---------------

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>.
You can redistribute it and/or modify it under either the terms of the
2-clause BSDL (see the file BSDL), or the conditions below:

1. You may make and give away verbatim copies of the source form of the
   software without restriction, provided that you duplicate all of the
   original copyright notices and associated disclaimers.

2. You may modify your copy of the software in any way, provided that
   you do at least ONE of the following:

   a. place your modifications in the Public Domain or otherwise
```

```
      make them Freely Available, such as by posting said
      modifications to Usenet or an equivalent medium, or by allowing
      the author to include your modifications in the software.

   b. use the modified software only within your corporation or
      organization.

   c. give non-standard binaries non-standard names, with
      instructions on where to get the original software distribution.

   d. make other distribution arrangements with the author.

3. You may distribute the software in object code or binary form,
   provided that you do at least ONE of the following:

   a. distribute the binaries and library files of the software,
      together with instructions (in the manual page or equivalent)
      on where to get the original distribution.

   b. accompany the distribution with the machine-readable source of
      the software.

   c. give non-standard binaries non-standard names, with
      instructions on where to get the original software distribution.

   d. make other distribution arrangements with the author.

4. You may modify and include the part of the software into any other
   software (possibly commercial).  But some files in the distribution
   are not written by the author, so that they are not under these terms.

   For the list of those files and their copying conditions, see the
   file LEGAL.

5. The scripts and library files supplied as input to or produced as
   output from the software do not automatically fall under the
   copyright of the software, but belong to whomever generated them,
   and may be sold commercially, and may be aggregated with this
   software.

6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
   IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
   PURPOSE.
=========================================================
```

Provider: Fluentd Authors / Component(s): Fluentd 1.7

```
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2011-2018 Fluentd Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Fluentd Project / Component(s): fluent-plugin-parser-cri 0.1.1

```
Copyright(c) 2020- Fluentd project
License
Apache License, Version 2.0

                             Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
==================================
Fluentd


Fluentd (Apache 2.0)
=================

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2011-2018 Fluentd Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

4th party dependencies
======================

=================
bundler
MIT Licese

Copyright (c) Chad Fowler, Rich Kilmer, Jim Weirich and others.

Portions copyright (c) Engine Yard and Andre Arko


Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the

'Software'), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to

the following conditions:
```

```
The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.


THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY

CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE

SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================
msgpack

Copyright (c) 2008-2015 Sadayuki Furuhashi


                         Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
===========================

cool.io

MIT License

Copyright (c) 2007-10 Tony Arcieri

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
============================================
http_parser.rb

MIT License

Copyright 2009,2010 Marc-André Cournoyer
Copyright 2010,2011 Aman Gupta

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
============================================
serverengine
```

```
Copyright (C) 2012-2013 Sadayuki Furuhashi

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
```

```
   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
==============================================
sigdump

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2011-2018 Fluentd Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
=======================================================
strptime

BSD-2-CLAUSE

Copyright (C) 2015 NARUSE, Yui. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

ext/strptime/strptime.c:
  date_strptime.c: Coded by Tadayoshi Funaba 2011,2012
  Copyright (C) 2004-2007 Koichi Sasada
============================================================
tzinfo

MIT License
```

```
Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==================================================
concurrent-ruby

Copyright (c) Jerry D'Antonio -- released under the MIT license.

http://www.opensource.org/licenses/mit-license.php

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
===============================================
tzinfo-data

MIT License

Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
```

```
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
====================================================
webrick

BSD-2-CLAUSE

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
================================================
yajl-ruby

The MIT License (MIT)

Copyright (c) 2014 Brian Lopez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
================================================
```

Provider: Free Software Foundation / Component(s): libgcc 4.8.5-44

```
"GPLv3+ and GPLv3+ with exceptions and GPLv2+ with exceptions"

License text from the Linux group is:

      GNU GENERAL PUBLIC LICENSE
         Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.
     51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
```

```
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

      GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
```

```
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.
```

```
  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.
```

```
  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

       NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

       END OF TERMS AND CONDITIONS

     How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.
```

```
    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year  name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.
    GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
```

```
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
```

```
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.
```

```
  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
```

```
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
```

```
  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
```

```
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
```

```
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

       NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

       END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
```

```
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!


GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.
```

```
"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.

                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
```

```
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.
```

```
  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.
```

```
  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
```

```
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.
```

```
    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
```

```
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.
```

```
  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
```

```
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
```

```
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
```

```
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
```

```
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
     GNU LESSER GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.


  This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

  0. Additional Definitions.

  As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

  "The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

  An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

  A "Combined Work" is a work produced by combining or linking an
Application with the Library.  The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

  The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

  The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

  1. Exception to Section 3 of the GNU GPL.

  You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

  2. Conveying Modified Versions.
```

```
  If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified
version:

   a) under this License, provided that you make a good faith effort to
   ensure that, in the event an Application does not supply the
   function or data, the facility still operates, and performs
   whatever part of its purpose remains meaningful, or

   b) under the GNU GPL, with none of the additional permissions of
   this License applicable to that copy.

  3. Object Code Incorporating Material from Library Header Files.

  The object code form of an Application may incorporate material from
a header file that is part of the Library.  You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

   a) Give prominent notice with each copy of the object code that the
   Library is used in it and that the Library and its use are
   covered by this License.

   b) Accompany the object code with a copy of the GNU GPL and this license
   document.

  4. Combined Works.

  You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

   a) Give prominent notice with each copy of the Combined Work that
   the Library is used in it and that the Library and its use are
   covered by this License.

   b) Accompany the Combined Work with a copy of the GNU GPL and this
 license
   document.

   c) For a Combined Work that displays copyright notices during
   execution, include the copyright notice for the Library among
   these notices, as well as a reference directing the user to the
   copies of the GNU GPL and this license document.

   d) Do one of the following:

       0) Convey the Minimal Corresponding Source under the terms of this
       License, and the Corresponding Application Code in a form
       suitable for, and under terms that permit, the user to
       recombine or relink the Application with a modified version of
       the Linked Version to produce a modified Combined Work, in the
       manner specified by section 6 of the GNU GPL for conveying
       Corresponding Source.

       1) Use a suitable shared library mechanism for linking with the
       Library.  A suitable mechanism is one that (a) uses at run time
```

```
        a copy of the Library already present on the user's computer
        system, and (b) will operate properly with a modified version
        of the Library that is interface-compatible with the Linked
        Version.

    e) Provide Installation Information, but only if you would otherwise
    be required to provide such information under section 6 of the
    GNU GPL, and only to the extent that such information is
    necessary to install and execute a modified version of the
    Combined Work produced by recombining or relinking the
    Application with a modified version of the Linked Version. (If
    you use option 4d0, the Installation Information must accompany
    the Minimal Corresponding Source and Corresponding Application
    Code. If you use option 4d1, you must provide the Installation
    Information in the manner specified by section 6 of the GNU GPL
    for conveying Corresponding Source.)

  5. Combined Libraries.

  You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

    a) Accompany the combined library with a copy of the same work based
    on the Library, uncombined with any other library facilities,
    conveyed under the terms of this License.

    b) Give prominent notice with the combined library that part of it
    is a work based on the Library, and explaining where to find the
    accompanying uncombined form of the same work.

  6. Revised Versions of the GNU Lesser General Public License.

  The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

  Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

  If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.
```

Provider: Free Software Foundation / Component(s): libstdc++ 4.8.5-44.0.3

```
Copyright (C) 2007 Free Software Foundation, Inc.
```

```
The source code is distributed under the GNU General Public License version
 3, with the addition under section 7 of an exception described in the
 “GCC Runtime Library Exception, version 3.1” as follows (or see the file
 COPYING.RUNTIME):


GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc.

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.
```

```
1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.


Hopefully that text is self-explanatory. If it isn't, you need to speak to
 your lawyer, or the Free Software Foundation.
The Documentation: GPL, FDL

The documentation shipped with the library and made available over the web,
 excluding the pages generated from source comments, are copyrighted by
 the Free Software Foundation, and placed under the GNU Free Documentation
 License version 1.3. There are no Front-Cover Texts, no Back-Cover Texts,
 and no Invariant Sections.

For documentation generated by doxygen or other automated tools via
 processing source code comments and markup, the original source code
 license applies to the generated files. Thus, the doxygen documents are
 licensed GPL.

If you plan on making copies of the documentation, please let us know. We
 can probably offer suggestions.


GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <https://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license
 document, but changing it is not allowed.
Preamble

The GNU General Public License is a free, copyleft license for software and
 other kinds of works.

The licenses for most software and other practical works are designed to
 take away your freedom to share and change the works. By contrast, the GNU
 General Public License is intended to guarantee your freedom to share and
 change all versions of a program--to make sure it remains free software
 for all its users. We, the Free Software Foundation, use the GNU General
 Public License for most of our software; it applies also to any other work
 released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
 General Public Licenses are designed to make sure that you have the freedom
 to distribute copies of free software (and charge for them if you wish),
 that you receive source code or can get it if you want it, that you can
 change the software or use pieces of it in new free programs, and that you
 know you can do these things.
```

```
To protect your rights, we need to prevent others from denying you these
 rights or asking you to surrender the rights. Therefore, you have certain
 responsibilities if you distribute copies of the software, or if you modify
 it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or
 for a fee, you must pass on to the recipients the same freedoms that you
 received. You must make sure that they, too, receive or can get the source
 code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1)
 assert copyright on the software, and (2) offer you this License giving you
 legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that
 there is no warranty for this free software. For both users' and authors'
 sake, the GPL requires that modified versions be marked as changed, so that
 their problems will not be attributed erroneously to authors of previous
 versions.

Some devices are designed to deny users access to install or run modified
 versions of the software inside them, although the manufacturer can do
 so. This is fundamentally incompatible with the aim of protecting users'
 freedom to change the software. The systematic pattern of such abuse occurs
 in the area of products for individuals to use, which is precisely where
 it is most unacceptable. Therefore, we have designed this version of the
 GPL to prohibit the practice for those products. If such problems arise
 substantially in other domains, we stand ready to extend this provision
 to those domains in future versions of the GPL, as needed to protect the
 freedom of users.

Finally, every program is threatened constantly by software patents. States
 should not allow patents to restrict development and use of software
 on general-purpose computers, but in those that do, we wish to avoid
 the special danger that patents applied to a free program could make it
 effectively proprietary. To prevent this, the GPL assures that patents
 cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification
 follow.
TERMS AND CONDITIONS
0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of
 works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License.
 Each licensee is addressed as “you”. “Licensees” and “recipients” may be
 individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a
 fashion requiring copyright permission, other than the making of an exact
 copy. The resulting work is called a “modified version” of the earlier work
 or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the
 Program.

To “propagate” a work means to do anything with it that, without permission,
 would make you directly or secondarily liable for infringement under
 applicable copyright law, except executing it on a computer or modifying a
 private copy. Propagation includes copying, distribution (with or without
```

```
 modification), making available to the public, and in some countries other
 activities as well.

To “convey” a work means any kind of propagation that enables other parties
 to make or receive copies. Mere interaction with a user through a computer
 network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the
 extent that it includes a convenient and prominently visible feature that
 (1) displays an appropriate copyright notice, and (2) tells the user that
 there is no warranty for the work (except to the extent that warranties are
 provided), that licensees may convey the work under this License, and how
 to view a copy of this License. If the interface presents a list of user
 commands or options, such as a menu, a prominent item in the list meets
 this criterion.
1. Source Code.

The “source code” for a work means the preferred form of the work for making
 modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official
 standard defined by a recognized standards body, or, in the case of
 interfaces specified for a particular programming language, one that is
 widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than
 the work as a whole, that (a) is included in the normal form of packaging
 a Major Component, but which is not part of that Major Component, and (b)
 serves only to enable use of the work with that Major Component, or to
 implement a Standard Interface for which an implementation is available
 to the public in source code form. A “Major Component”, in this context,
 means a major essential component (kernel, window system, and so on) of the
 specific operating system (if any) on which the executable work runs, or
 a compiler used to produce the work, or an object code interpreter used to
 run it.

The “Corresponding Source” for a work in object code form means all the
 source code needed to generate, install, and (for an executable work) run
 the object code and to modify the work, including scripts to control those
 activities. However, it does not include the work's System Libraries, or
 general-purpose tools or generally available free programs which are used
 unmodified in performing those activities but which are not part of the
 work. For example, Corresponding Source includes interface definition files
 associated with source files for the work, and the source code for shared
 libraries and dynamically linked subprograms that the work is specifically
 designed to require, such as by intimate data communication or control flow
 between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate
 automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.
2. Basic Permissions.

All rights granted under this License are granted for the term of copyright
 on the Program, and are irrevocable provided the stated conditions are
 met. This License explicitly affirms your unlimited permission to run
 the unmodified Program. The output from running a covered work is covered
 by this License only if the output, given its content, constitutes a
 covered work. This License acknowledges your rights of fair use or other
 equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey,
 without conditions so long as your license otherwise remains in force.
```

```
 You may convey covered works to others for the sole purpose of having them
 make modifications exclusively for you, or provide you with facilities
 for running those works, provided that you comply with the terms of
 this License in conveying all material for which you do not control
 copyright. Those thus making or running the covered works for you must do
 so exclusively on your behalf, under your direction and control, on terms
 that prohibit them from making any copies of your copyrighted material
 outside their relationship with you.

Conveying under any other circumstances is permitted solely under the
 conditions stated below. Sublicensing is not allowed; section 10 makes it
 unnecessary.
3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure
 under any applicable law fulfilling obligations under article 11 of
 the WIPO copyright treaty adopted on 20 December 1996, or similar laws
 prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid
 circumvention of technological measures to the extent such circumvention
 is effected by exercising rights under this License with respect to
 the covered work, and you disclaim any intention to limit operation or
 modification of the work as a means of enforcing, against the work's
 users, your or third parties' legal rights to forbid circumvention of
 technological measures.
4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive
 it, in any medium, provided that you conspicuously and appropriately
 publish on each copy an appropriate copyright notice; keep intact all
 notices stating that this License and any non-permissive terms added in
 accord with section 7 apply to the code; keep intact all notices of the
 absence of any warranty; and give all recipients a copy of this License
 along with the Program.

You may charge any price or no price for each copy that you convey, and you
 may offer support or warranty protection for a fee.
5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce
 it from the Program, in the form of source code under the terms of section
 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified it,
 and giving a relevant date.
    b) The work must carry prominent notices stating that it is released
 under this License and any conditions added under section 7. This
 requirement modifies the requirement in section 4 to “keep intact all
 notices”.
    c) You must license the entire work, as a whole, under this License to
 anyone who comes into possession of a copy. This License will therefore
 apply, along with any applicable section 7 additional terms, to the whole
 of the work, and all its parts, regardless of how they are packaged. This
 License gives no permission to license the work in any other way, but it
 does not invalidate such permission if you have separately received it.
    d) If the work has interactive user interfaces, each must display
 Appropriate Legal Notices; however, if the Program has interactive
 interfaces that do not display Appropriate Legal Notices, your work need
 not make them do so.

A compilation of a covered work with other separate and independent works,
 which are not by their nature extensions of the covered work, and which
 are not combined with it such as to form a larger program, in or on a
```

```
 volume of a storage or distribution medium, is called an “aggregate” if the
 compilation and its resulting copyright are not used to limit the access
 or legal rights of the compilation's users beyond what the individual works
 permit. Inclusion of a covered work in an aggregate does not cause this
 License to apply to the other parts of the aggregate.
6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of
 sections 4 and 5, provided that you also convey the machine-readable
 Corresponding Source under the terms of this License, in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
 (including a physical distribution medium), accompanied by the
 Corresponding Source fixed on a durable physical medium customarily used
 for software interchange.
    b) Convey the object code in, or embodied in, a physical product
 (including a physical distribution medium), accompanied by a written
 offer, valid for at least three years and valid for as long as you offer
 spare parts or customer support for that product model, to give anyone who
 possesses the object code either (1) a copy of the Corresponding Source
 for all the software in the product that is covered by this License, on
 a durable physical medium customarily used for software interchange, for
 a price no more than your reasonable cost of physically performing this
 conveying of source, or (2) access to copy the Corresponding Source from a
 network server at no charge.
    c) Convey individual copies of the object code with a copy of the
 written offer to provide the Corresponding Source. This alternative is
 allowed only occasionally and noncommercially, and only if you received the
 object code with such an offer, in accord with subsection 6b.
    d) Convey the object code by offering access from a designated place
 (gratis or for a charge), and offer equivalent access to the Corresponding
 Source in the same way through the same place at no further charge. You
 need not require recipients to copy the Corresponding Source along with
 the object code. If the place to copy the object code is a network server,
 the Corresponding Source may be on a different server (operated by you or
 a third party) that supports equivalent copying facilities, provided you
 maintain clear directions next to the object code saying where to find the
 Corresponding Source. Regardless of what server hosts the Corresponding
 Source, you remain obligated to ensure that it is available for as long as
 needed to satisfy these requirements.
    e) Convey the object code using peer-to-peer transmission, provided you
 inform other peers where the object code and Corresponding Source of the
 work are being offered to the general public at no charge under subsection
 6d.

A separable portion of the object code, whose source code is excluded from
 the Corresponding Source as a System Library, need not be included in
 conveying the object code work.

A “User Product” is either (1) a “consumer product”, which means any
 tangible personal property which is normally used for personal, family,
 or household purposes, or (2) anything designed or sold for incorporation
 into a dwelling. In determining whether a product is a consumer product,
 doubtful cases shall be resolved in favor of coverage. For a particular
 product received by a particular user, “normally used” refers to a typical
 or common use of that class of product, regardless of the status of the
 particular user or of the way in which the particular user actually uses,
 or expects or is expected to use, the product. A product is a consumer
 product regardless of whether the product has substantial commercial,
 industrial or non-consumer uses, unless such uses represent the only
 significant mode of use of the product.

“Installation Information” for a User Product means any methods, procedures,
 authorization keys, or other information required to install and execute
```

```
 modified versions of a covered work in that User Product from a modified
 version of its Corresponding Source. The information must suffice to ensure
 that the continued functioning of the modified object code is in no case
 prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or
 specifically for use in, a User Product, and the conveying occurs as part
 of a transaction in which the right of possession and use of the User
 Product is transferred to the recipient in perpetuity or for a fixed term
 (regardless of how the transaction is characterized), the Corresponding
 Source conveyed under this section must be accompanied by the Installation
 Information. But this requirement does not apply if neither you nor any
 third party retains the ability to install modified object code on the User
 Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a
 requirement to continue to provide support service, warranty, or updates
 for a work that has been modified or installed by the recipient, or for
 the User Product in which it has been modified or installed. Access to a
 network may be denied when the modification itself materially and adversely
 affects the operation of the network or violates the rules and protocols
 for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in
 accord with this section must be in a format that is publicly documented
 (and with an implementation available to the public in source code form),
 and must require no special password or key for unpacking, reading or
 copying.
7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License
 by making exceptions from one or more of its conditions. Additional
 permissions that are applicable to the entire Program shall be treated
 as though they were included in this License, to the extent that they are
 valid under applicable law. If additional permissions apply only to part of
 the Program, that part may be used separately under those permissions, but
 the entire Program remains governed by this License without regard to the
 additional permissions.

When you convey a copy of a covered work, you may at your option remove any
 additional permissions from that copy, or from any part of it. (Additional
 permissions may be written to require their own removal in certain
 cases when you modify the work.) You may place additional permissions on
 material, added by you to a covered work, for which you have or can give
 appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add
 to a covered work, you may (if authorized by the copyright holders of that
 material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the terms
 of sections 15 and 16 of this License; or
    b) Requiring preservation of specified reasonable legal notices or
 author attributions in that material or in the Appropriate Legal Notices
 displayed by works containing it; or
    c) Prohibiting misrepresentation of the origin of that material, or
 requiring that modified versions of such material be marked in reasonable
 ways as different from the original version; or
    d) Limiting the use for publicity purposes of names of licensors or
 authors of the material; or
    e) Declining to grant rights under trademark law for use of some trade
 names, trademarks, or service marks; or
    f) Requiring indemnification of licensors and authors of that material
 by anyone who conveys the material (or modified versions of it) with
```

```
 contractual assumptions of liability to the recipient, for any liability
 that these contractual assumptions directly impose on those licensors and
 authors.

All other non-permissive additional terms are considered “further
 restrictions” within the meaning of section 10. If the Program as you
 received it, or any part of it, contains a notice stating that it is
 governed by this License along with a term that is a further restriction,
 you may remove that term. If a license document contains a further
 restriction but permits relicensing or conveying under this License, you
 may add to a covered work material governed by the terms of that license
 document, provided that the further restriction does not survive such
 relicensing or conveying.

If you add terms to a covered work in accord with this section, you must
 place, in the relevant source files, a statement of the additional terms
 that apply to those files, or a notice indicating where to find the
 applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
 form of a separately written license, or stated as exceptions; the above
 requirements apply either way.
8. Termination.

You may not propagate or modify a covered work except as expressly provided
 under this License. Any attempt otherwise to propagate or modify it is
 void, and will automatically terminate your rights under this License
 (including any patent licenses granted under the third paragraph of section
 11).

However, if you cease all violation of this License, then your license from
 a particular copyright holder is reinstated (a) provisionally, unless and
 until the copyright holder explicitly and finally terminates your license,
 and (b) permanently, if the copyright holder fails to notify you of the
 violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated
 permanently if the copyright holder notifies you of the violation by
 some reasonable means, this is the first time you have received notice of
 violation of this License (for any work) from that copyright holder, and
 you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the
 licenses of parties who have received copies or rights from you under
 this License. If your rights have been terminated and not permanently
 reinstated, you do not qualify to receive new licenses for the same
 material under section 10.
9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a
 copy of the Program. Ancillary propagation of a covered work occurring
 solely as a consequence of using peer-to-peer transmission to receive a
 copy likewise does not require acceptance. However, nothing other than
 this License grants you permission to propagate or modify any covered
 work. These actions infringe copyright if you do not accept this License.
 Therefore, by modifying or propagating a covered work, you indicate your
 acceptance of this License to do so.
10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives
 a license from the original licensors, to run, modify and propagate that
 work, subject to this License. You are not responsible for enforcing
 compliance by third parties with this License.
```

```
An “entity transaction” is a transaction transferring control of an
 organization, or substantially all assets of one, or subdividing an
 organization, or merging organizations. If propagation of a covered work
 results from an entity transaction, each party to that transaction who
 receives a copy of the work also receives whatever licenses to the work
 the party's predecessor in interest had or could give under the previous
 paragraph, plus a right to possession of the Corresponding Source of the
 work from the predecessor in interest, if the predecessor has it or can get
 it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights
 granted or affirmed under this License. For example, you may not impose a
 license fee, royalty, or other charge for exercise of rights granted under
 this License, and you may not initiate litigation (including a cross-claim
 or counterclaim in a lawsuit) alleging that any patent claim is infringed
 by making, using, selling, offering for sale, or importing the Program or
 any portion of it.
11. Patents.

A “contributor” is a copyright holder who authorizes use under this License
 of the Program or a work on which the Program is based. The work thus
 licensed is called the contributor's “contributor version”.

A contributor's “essential patent claims” are all patent claims owned
 or controlled by the contributor, whether already acquired or hereafter
 acquired, that would be infringed by some manner, permitted by this
 License, of making, using, or selling its contributor version, but do not
 include claims that would be infringed only as a consequence of further
 modification of the contributor version. For purposes of this definition,
 “control” includes the right to grant patent sublicenses in a manner
 consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent
 license under the contributor's essential patent claims, to make, use,
 sell, offer for sale, import and otherwise run, modify and propagate the
 contents of its contributor version.

In the following three paragraphs, a “patent license” is any express
 agreement or commitment, however denominated, not to enforce a patent (such
 as an express permission to practice a patent or covenant not to sue for
 patent infringement). To “grant” such a patent license to a party means to
 make such an agreement or commitment not to enforce a patent against the
 party.

If you convey a covered work, knowingly relying on a patent license, and the
 Corresponding Source of the work is not available for anyone to copy, free
 of charge and under the terms of this License, through a publicly available
 network server or other readily accessible means, then you must either
 (1) cause the Corresponding Source to be so available, or (2) arrange to
 deprive yourself of the benefit of the patent license for this particular
 work, or (3) arrange, in a manner consistent with the requirements of this
 License, to extend the patent license to downstream recipients. “Knowingly
 relying” means you have actual knowledge that, but for the patent license,
 your conveying the covered work in a country, or your recipient's use of
 the covered work in a country, would infringe one or more identifiable
 patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement,
 you convey, or propagate by procuring conveyance of, a covered work, and
 grant a patent license to some of the parties receiving the covered work
 authorizing them to use, propagate, modify or convey a specific copy of the
 covered work, then the patent license you grant is automatically extended
 to all recipients of the covered work and works based on it.
```

```
A patent license is “discriminatory” if it does not include within the scope
 of its coverage, prohibits the exercise of, or is conditioned on the non-
exercise of one or more of the rights that are specifically granted under
 this License. You may not convey a covered work if you are a party to an
 arrangement with a third party that is in the business of distributing
 software, under which you make payment to the third party based on the
 extent of your activity of conveying the work, and under which the third
 party grants, to any of the parties who would receive the covered work from
 you, a discriminatory patent license (a) in connection with copies of the
 covered work conveyed by you (or copies made from those copies), or (b)
 primarily for and in connection with specific products or compilations that
 contain the covered work, unless you entered into that arrangement, or that
 patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any
 implied license or other defenses to infringement that may otherwise be
 available to you under applicable patent law.
12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot convey a
 covered work so as to satisfy simultaneously your obligations under this
 License and any other pertinent obligations, then as a consequence you may
 not convey it at all. For example, if you agree to terms that obligate you
 to collect a royalty for further conveying from those to whom you convey
 the Program, the only way you could satisfy both those terms and this
 License would be to refrain entirely from conveying the Program.
13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to
 link or combine any covered work with a work licensed under version 3 of
 the GNU Affero General Public License into a single combined work, and to
 convey the resulting work. The terms of this License will continue to apply
 to the part which is the covered work, but the special requirements of
 the GNU Affero General Public License, section 13, concerning interaction
 through a network will apply to the combination as such.
14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
 the GNU General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Program
 specifies that a certain numbered version of the GNU General Public License
 “or any later version” applies to it, you have the option of following
 the terms and conditions either of that numbered version or of any later
 version published by the Free Software Foundation. If the Program does not
 specify a version number of the GNU General Public License, you may choose
 any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of
 the GNU General Public License can be used, that proxy's public statement
 of acceptance of a version permanently authorizes you to choose that
 version for the Program.

Later license versions may give you additional or different permissions.
 However, no additional obligations are imposed on any author or copyright
 holder as a result of your choosing to follow a later version.
15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE
 LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
```

```
 OTHER PARTIES PROVIDE THE PROGRAM “AS IS” WITHOUT WARRANTY OF ANY KIND,
 EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
 ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.
 SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY
 SERVICING, REPAIR OR CORRECTION.
16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
 ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE
 PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
 GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
 USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
 DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
 PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
 EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
 SUCH DAMAGES.
17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above
 cannot be given local legal effect according to their terms, reviewing
 courts shall apply local law that most closely approximates an absolute
 waiver of all civil liability in connection with the Program, unless a
 warranty or assumption of liability accompanies a copy of the Program in
 return for a fee.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
 use to the public, the best way to achieve this is to make it free software
 which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
 attach them to the start of each source file to most effectively state the
 exclusion of warranty; and each file should have at least the “copyright”
 line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like
 this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.
```

```
The hypothetical commands `show w' and `show c' should show the appropriate
 parts of the General Public License. Of course, your program's commands
 might be different; for a GUI interface, you would use an “about box”.

You should also get your employer (if you work as a programmer) or school,
 if any, to sign a “copyright disclaimer” for the program, if necessary.
 For more information on this, and how to apply and follow the GNU GPL, see
 <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
 into proprietary programs. If your program is a subroutine library, you
 may consider it more useful to permit linking proprietary applications with
 the library. If this is what you want to do, use the GNU Lesser General
 Public License instead of this License. But first, please read <https://
www.gnu.org/licenses/why-not-lgpl.html>.
```

Provider: Free Software Foundation, Inc. / Component(s): glibc 2.17-326.0.1.el7

```
###################### glibc Licenses ####################################
/usr/share/doc/glibc-2.17/COPYING:
      GNU GENERAL PUBLIC LICENSE
         Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.
     51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
```

```
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

      GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
```

```
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
```

```
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
```

```
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

       NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

       END OF TERMS AND CONDITIONS

     How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>
```

```
    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year  name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.

################################################################################
/usr/share/doc/glibc-2.17/COPYING.LIB:

    GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

       Preamble
```

```
  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
```

```
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.
```

```
  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
```

```
In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
```

```
  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
```

```
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
```

```
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

       NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

       END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries
```

```
  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!

##################################################################################

Copyrights (from /usr/share/doc/glibc-2.17/LICENSES):
This file contains the copying permission notices for various files in the
GNU C Library distribution that have copyright owners other than the Free
Software Foundation.  These notices all require that a copy of the notice
be included in the accompanying documentation and be distributed with
binary distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

All code incorporated from 4.4 BSD is distributed under the following
license:

Copyright (C) 1991 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
```

```
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. [This condition was removed.]
4. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The DNS resolver code, taken from BIND 4.9.5, is copyrighted by UC
Berkeley, by Digital Equipment Corporation and by Internet Software
Consortium.  The DEC portions are under the following license:

Portions Copyright (C) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies, and
that the name of Digital Equipment Corporation not be used in
advertising or publicity pertaining to distribution of the document or
software without specific, written prior permission.

THE SOFTWARE IS PROVIDED ``AS IS'' AND DIGITAL EQUIPMENT CORP.
DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.  IN NO EVENT SHALL
DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The ISC portions are under the following license:

Portions Copyright (c) 1996-1999 by Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

The Sun RPC support (from rpcsrc-4.0) is covered by the following
license:
```

```
Copyright (c) 2010, Oracle America, Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials
      provided with the distribution.
    * Neither the name of the "Oracle America, Inc." nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
  FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
  COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
  INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
  GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
  WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
  NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


The following CMU license covers some of the support code for Mach,
derived from Mach 3.0:

Mach Operating System
Copyright (C) 1991,1990,1989 Carnegie Mellon University
All Rights Reserved.

Permission to use, copy, modify and distribute this software and its
documentation is hereby granted, provided that both the copyright
notice and this permission notice appear in all copies of the
software, derivative works or modified versions, and any portions
thereof, and that both notices appear in supporting documentation.

CARNEGIE MELLON ALLOWS FREE USE OF THIS SOFTWARE IN ITS ``AS IS''
CONDITION.  CARNEGIE MELLON DISCLAIMS ANY LIABILITY OF ANY KIND FOR
ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Carnegie Mellon requests users of this software to return to

 Software Distribution Coordinator
 School of Computer Science
 Carnegie Mellon University
 Pittsburgh PA 15213-3890

or Software.Distribution@CS.CMU.EDU any improvements or
extensions that they make and grant Carnegie Mellon the rights to
redistribute these changes.

The file if_ppp.h is under the following CMU license:

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
```

```
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the University nor the names of its contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY CARNEGIE MELLON UNIVERSITY AND
 CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
 INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 IN NO EVENT SHALL THE UNIVERSITY OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
 GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
 IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
 IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license covers the files from Intel's "Highly Optimized
Mathematical Functions for Itanium" collection:

Intel License Agreement

Copyright (c) 2000, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

* The name of Intel Corporation may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The files inet/getnameinfo.c and sysdeps/posix/getaddrinfo.c are copyright
(C) by Craig Metz and are distributed under the following license:

/* The Inner Net License, Version 2.00

  The author(s) grant permission for redistribution and use in source and
```

```
binary forms, with or without modification, of the software and
 documentation
provided that the following conditions are met:

0. If you receive a version of the software that is specifically labelled
   as not being for redistribution (check the version message and/or
 README),
   you are not permitted to redistribute that version of the software in any
   way or form.
1. All terms of the all other applicable copyrights and licenses must be
   followed.
2. Redistributions of source code must retain the authors' copyright
   notice(s), this list of conditions, and the following disclaimer.
3. Redistributions in binary form must reproduce the authors' copyright
   notice(s), this list of conditions, and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
4. [The copyright holder has authorized the removal of this clause.]
5. Neither the name(s) of the author(s) nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ITS AUTHORS AND CONTRIBUTORS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  If these license terms cause you a real problem, contact the author.  */

The file sunrpc/des_impl.c is copyright Eric Young:

Copyright (C) 1992 Eric Young
Collected from libdes and modified for SECURE RPC by Martin Kuck 1994
This file is distributed under the terms of the GNU Lesser General
Public License, version 2.1 or later - see the file COPYING.LIB for details.
If you did not receive a copy of the license with this program, please
see <http://www.gnu.org/licenses/> to obtain a copy.

The libidn code is copyright Simon Josefsson, with portions copyright
The Internet Society, Tom Tromey and Red Hat, Inc.:

Copyright (C) 2002, 2003, 2004, 2011  Simon Josefsson

This file is part of GNU Libidn.

GNU Libidn is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

GNU Libidn is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with GNU Libidn; if not, see <http://www.gnu.org/licenses/>.
```

```
The following notice applies to portions of libidn/nfkc.c:

This file contains functions from GLIB, including gutf8.c and
gunidecomp.c, all licensed under LGPL and copyright hold by:

Copyright (C) 1999, 2000 Tom Tromey
Copyright 2000 Red Hat, Inc.

The following applies to portions of libidn/punycode.c and
libidn/punycode.h:

This file is derived from RFC 3492bis written by Adam M. Costello.

Disclaimer and license: Regarding this entire document or any
portion of it (including the pseudocode and C code), the author
makes no guarantees and is not responsible for any damage resulting
from its use.  The author grants irrevocable permission to anyone
to use, modify, and distribute it in any way that does not diminish
the rights of anyone else to use, modify, and distribute it,
provided that redistributed derivative works do not contain
misleading author or version information.  Derivative works need
not be licensed under similar terms.

Copyright (C) The Internet Society (2003).  All Rights Reserved.

This document and translations of it may be copied and furnished to
others, and derivative works that comment on or otherwise explain it
or assist in its implementation may be prepared, copied, published
and distributed, in whole or in part, without restriction of any
kind, provided that the above copyright notice and this paragraph are
included on all such copies and derivative works.  However, this
document itself may not be modified in any way, such as by removing
the copyright notice or references to the Internet Society or other
Internet organizations, except as needed for the purpose of
developing Internet standards in which case the procedures for
copyrights defined in the Internet Standards process must be
followed, or as required to translate it into languages other than
English.

The limited permissions granted above are perpetual and will not be
revoked by the Internet Society or its successors or assigns.

This document and the information contained herein is provided on an
"AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING
TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING
BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION
HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF
MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The file inet/rcmd.c is under a UCB copyright and the following:

Copyright (C) 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
```

```
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The file posix/runtests.c is copyright Tom Lord:

Copyright 1995 by Tom Lord

                         All Rights Reserved

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of the copyright holder not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

Tom Lord DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL TOM LORD BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

The posix/rxspencer tests are copyright Henry Spencer:

Copyright 1992, 1993, 1994, 1997 Henry Spencer.  All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
   software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
   explicit claim or by omission.  Since few users ever read sources,
   credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
   misrepresented as being the original software.  Since few users
   ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

The file posix/PCRE.tests is copyright University of Cambridge:

Copyright (c) 1997-2003 University of Cambridge
```

```
Permission is granted to anyone to use this software for any purpose on any
computer system, and to redistribute it freely, subject to the following
restrictions:

1. This software is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

2. The origin of this software must not be misrepresented, either by
   explicit claim or by omission. In practice, this means that if you use
   PCRE in software that you distribute to others, commercially or
   otherwise, you must put a sentence like this

     Regular expression support is provided by the PCRE library package,
     which is open source software, written by Philip Hazel, and copyright
     by the University of Cambridge, England.

   somewhere reasonably visible in your documentation and in any relevant
   files or online help data or similar. A reference to the ftp site for
   the source, that is, to

     ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/

   should also be given in the documentation. However, this condition is not
   intended to apply to whole chains of software. If package A includes
 PCRE,
   it must acknowledge it, but if package B is software that includes
 package
   A, the condition is not imposed on package B (unless it uses PCRE
   independently).

3. Altered versions must be plainly marked as such, and must not be
   misrepresented as being the original software.

4. If PCRE is embedded in any software that is released under the GNU
  General Purpose Licence (GPL), or Lesser General Purpose Licence (LGPL),
  then the terms of that licence shall supersede any condition above with
  which it is incompatible.

Files from Sun fdlibm are copyright Sun Microsystems, Inc.:

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this
software is freely granted, provided that this notice
is preserved.

Part of stdio-common/tst-printf.c is copyright C E Chew:

(C) Copyright C E Chew

Feel free to copy, use and distribute this software provided:

     1. you do not pretend that you wrote it
     2. you leave this copyright notice intact.

Various long double libm functions are copyright Stephen L. Moshier:

Copyright 2001 by Stephen L. Moshier <moshier@na-net.ornl.gov>

 This library is free software; you can redistribute it and/or
 modify it under the terms of the GNU Lesser General Public
 License as published by the Free Software Foundation; either
```

```
 version 2.1 of the License, or (at your option) any later version.

 This library is distributed in the hope that it will be useful,
 but WITHOUT ANY WARRANTY; without even the implied warranty of
 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
 Lesser General Public License for more details.

 You should have received a copy of the GNU Lesser General Public
 License along with this library; if not, see
 <http://www.gnu.org/licenses/>.  */


##################################################################################
Fourth-party Dependencies:
1. basesystem - Public Domain
2. glibc-common - LGPLv2+ and LGPLv2+ with exceptions and GPLv2+
3. nss-softokn-freebl.x86_64 - MPL-2.0
4. libgcc - GPLv3+ and GPLv3+ with exceptions and GPLv2+ with exceptions and
 LGPLv2+ and BSD
##################################################################################

MPL-2.0:
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
```

```
1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
```

```
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
```

```
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
```

```
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.
```

```
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.

##########################################################################################

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.
```

```
A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.

##############################################################################

                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
```

```
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
```

```
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
```

```
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
```

```
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.
```

```
  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.
```

```
  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
```

```
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
```

```
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.
```

```
  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
```

```
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

#######################################################################################

     GNU LESSER GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007
```

```
 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.


  This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

  0. Additional Definitions.

  As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

  "The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

  An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

  A "Combined Work" is a work produced by combining or linking an
Application with the Library.  The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

  The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

  The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

  1. Exception to Section 3 of the GNU GPL.

  You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

  2. Conveying Modified Versions.

  If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified
version:

   a) under this License, provided that you make a good faith effort to
   ensure that, in the event an Application does not supply the
   function or data, the facility still operates, and performs
   whatever part of its purpose remains meaningful, or

   b) under the GNU GPL, with none of the additional permissions of
   this License applicable to that copy.

  3. Object Code Incorporating Material from Library Header Files.

  The object code form of an Application may incorporate material from
a header file that is part of the Library.  You may convey such object
```

```
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

   a) Give prominent notice with each copy of the object code that the
   Library is used in it and that the Library and its use are
   covered by this License.

   b) Accompany the object code with a copy of the GNU GPL and this license
   document.

  4. Combined Works.

  You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

   a) Give prominent notice with each copy of the Combined Work that
   the Library is used in it and that the Library and its use are
   covered by this License.

   b) Accompany the Combined Work with a copy of the GNU GPL and this
 license
   document.

   c) For a Combined Work that displays copyright notices during
   execution, include the copyright notice for the Library among
   these notices, as well as a reference directing the user to the
   copies of the GNU GPL and this license document.

   d) Do one of the following:

       0) Convey the Minimal Corresponding Source under the terms of this
       License, and the Corresponding Application Code in a form
       suitable for, and under terms that permit, the user to
       recombine or relink the Application with a modified version of
       the Linked Version to produce a modified Combined Work, in the
       manner specified by section 6 of the GNU GPL for conveying
       Corresponding Source.

       1) Use a suitable shared library mechanism for linking with the
       Library.  A suitable mechanism is one that (a) uses at run time
       a copy of the Library already present on the user's computer
       system, and (b) will operate properly with a modified version
       of the Library that is interface-compatible with the Linked
       Version.

   e) Provide Installation Information, but only if you would otherwise
   be required to provide such information under section 6 of the
   GNU GPL, and only to the extent that such information is
   necessary to install and execute a modified version of the
   Combined Work produced by recombining or relinking the
   Application with a modified version of the Linked Version. (If
   you use option 4d0, the Installation Information must accompany
   the Minimal Corresponding Source and Corresponding Application
   Code. If you use option 4d1, you must provide the Installation
   Information in the manner specified by section 6 of the GNU GPL
   for conveying Corresponding Source.)

  5. Combined Libraries.
```

```
  You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

   a) Accompany the combined library with a copy of the same work based
   on the Library, uncombined with any other library facilities,
   conveyed under the terms of this License.

   b) Give prominent notice with the combined library that part of it
   is a work based on the Library, and explaining where to find the
   accompanying uncombined form of the same work.

  6. Revised Versions of the GNU Lesser General Public License.

  The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

  Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

  If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.
```

Provider: FreeCompany / Component(s): Redline 1.2.10

```
Copyright (c) 2007-2015 FreeCompany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
```

```
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: FreeCompany / Component(s): Redline 1.2.9

```
Copyright (c) 2007-2015 FreeCompany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Gareth Jones / Component(s): log4js-node 5.1.0

```
log4js-node

COPYRIGHT and LICENSE:
Copyright 2015 Gareth Jones (with contributions from many other people)

 Licensed under the Apache License, Version 2.0 (the "License");
 you may not use this file except in compliance with the License.
 You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
limitations under the License.



Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
```

```
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
```

```
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS




******************
4P Dependencies:
******************

"date-format": "^2.1.0"
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Gareth Jones

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
```

```
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


===
"debug": "^4.1.1"
COPYRIGHT and LICENSE:
(The MIT License)

Copyright (c) 2014 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software
and associated documentation files (the 'Software'), to deal in the Software
 without restriction,
including without limitation the rights to use, copy, modify, merge,
 publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial
portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT
LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
 PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
 DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
 IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



===
"flatted": "^2.0.1"
COPYRIGHT and LICENSE:

ISC License

Copyright (c) 2018, Andrea Giammarchi, @WebReflection

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.


===
"rfdc": "^1.1.4"
COPYRIGHT and LICENSE:
Copyright 2019 "David Mark Clements <david.mark.clements@gmail.com>"
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated
documentation files (the "Software"), to deal in the Software without
 restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and
to permit persons to whom the Software is furnished to do so, subject to the
 following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF
CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
 SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.


===
"streamroller": "^2.1.0"
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Gareth Jones

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Gargoyle Software / Component(s): HtmlUnit 2.18-1

```
Copyright (c) 2002-2015 Gargoyle Software Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
```

```
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
```

```
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
```

```
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Giampaolo Rodola / Component(s): psutil 5.4.6

```
psutil is distributed under BSD license reproduced below.

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola'
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
```

```
    this list of conditions and the following disclaimer in the documentation
    and/or other materials provided with the distribution.
  * Neither the name of the psutil authors nor the names of its contributors
    may be used to endorse or promote products derived from this software
  without
    specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Giampaolo Rodola / Component(s): psutil 5.6.1

```
psutil is distributed under BSD license reproduced below.

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola'
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
  this
    list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright notice,
    this list of conditions and the following disclaimer in the documentation
    and/or other materials provided with the distribution.
  * Neither the name of the psutil authors nor the names of its contributors
    may be used to endorse or promote products derived from this software
  without
    specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Gin-Gonic / Component(s): cors 1.2

```
cors version 1.2

COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2016 Gin-Gonic

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


======================
4P Dependencies:


package errors 0.8.0
Package errors implements functions to manipulate errors.
COPYRIGHT and LICENSE:
Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
```

```
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
gin-gonic gin version 1.2
github.com/gin-gonic/gin
Package gin implements a HTTP web framework called gin.
COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2016 Gin-Gonic

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---
net/http version 9ef9f5bb98a1fdc41f8cf6c250a4404b4085e389
Package http provides HTTP client and server implementations.
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
```

```
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
time version fbb02b2291d28baffd63558aa44b4b56f178d650
Package time provides functionality for measuring and displaying time.
COPYRIGHT and LICENSE:
opyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: GitHub / Component(s): JX 1.2.79

```
1. jenkins-x/jx:
cloud.google.com\*:
google.golang.org/appengine
gopkg.in\src-d\go-billy.v4
gopkg.in\src-d\go-git.v4
gopkg.in\yaml.v2
k8s.io\*
github.com\golang\glog
github.com\google\gofuzz
github.com\googleapis\gnostic
github.com\spf13\cobra
github.com\trivago\tgo
github.com\wbrefvem\go-gitlab
github.com\xanzy\ssh-agent

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
```

```
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
```

```
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
```

```
WITOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


2. code.gitea.io
Copyright (c) 2016 The Gitea Authors
Copyright (c) 2014 The Gogs Authors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


3. golang.org

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
```

```
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




4. gopkg.in\AlecAivazis\survey.v1
MIT License

Copyright (c) 2018 Alec Aivazis

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.




5. gopkg.in\inf.v0

Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
```

```
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




6. gopkg.in\warnings.v0
Copyright (c) 2016 Péter Surányi.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



7. github.com\andygrunwald\go-jira
The MIT License (MIT)

Copyright (c) 2015 Andy Grunwald

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



8. github.com\Azure\draft
github.com\jenkins-x\draft-repo

The MIT License (MIT)

Copyright (c) Microsoft Corporation. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


9. github.com\beevik\etree

Copyright 2015 Brett Vickers. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDER ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
```

```
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


10. github.com\blang\semver


The MIT License

Copyright (c) 2014 Benedikt Lang

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



11. github.com\chromedp\cdproto
github.com\chromedp\chromedp
The MIT License (MIT)

Copyright (c) 2016-2018 Kenneth Shaw

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
12. github.com\cpuguy83\go-md2man
The MIT License (MIT)

Copyright (c) 2014 Brian Goff

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


13. github.com\davecgh\go-spew

ISC License

Copyright (c) 2012-2016 Dave Collins

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



15. github.com\dgrijalva\jwt-go
Copyright (c) 2012 Dave Grijalva

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
```

```
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.




16. github.com\disintegration\imaging

The MIT License (MIT)

Copyright (c) 2012-2018 Grigory Dryapak

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


17. github.com\fatih\color


The MIT License (MIT)

Copyright (c) 2013 Fatih Arslan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
```

```
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



18. github.com\fatih\structs

The MIT License (MIT)

Copyright (c) 2014 Fatih Arslan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.




19. github.com\ghodss\yaml
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

20. github.com\gobwas\glob
The MIT License (MIT)

Copyright (c) 2016 Sergey Kamardin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

21. github.com\gogo\protobuf
github.com\golang\protobuf
Protocol Buffers for Go with Gadgets

```
Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors. All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



22. github.com\google\go-github
Copyright (c) 2013 The go-github AUTHORS. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
23. github.com\google\go-querystring
Copyright (c) 2013 Google. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




24. github.com\gophercloud\gophercloud
Copyright 2012-2013 Rackspace, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License. You may obtain a copy of
 the
License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the
specific language governing permissions and limitations under the License.

------

    Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
```

```
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
```

```
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.
```

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

25.github.com\gorilla\websocket

Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE

```
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




26. github.com\hashicorp\golang-lru
github.com\hashicorp\go-version

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the
creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a
Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the
notice in Exhibit A, the Executable Form of such Source Code Form, and
Modifications of such Source Code Form, in each case including portions
thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in
Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the terms of
a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a
separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"
```

```
means having the right to grant, to the maximum extent possible, whether
at the time of the initial grant or subsequently, any and all of the
rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to,
deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method,
process, and apparatus claims, in any patent Licensable by such
Contributor that would be infringed, but for the grant of the License,
by the making, using, selling, offering for sale, having made, import,
or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser
General Public License, Version 2.1, the GNU Affero General Public
License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this
License. For legal entities, "You" includes any entity that controls, is
controlled by, or is under common control with You. For purposes of this
definition, "control" means (a) the power, direct or indirect, to cause
the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

a. under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available,
modify, display, perform, distribute, and otherwise exploit its
Contributions, either on an unmodified basis, with Modifications, or
as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its
Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
```

```
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
Version); or

c. under Patent Claims infringed by Covered Software in the absence of
its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights to
grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:
```

```
a. such Covered Software must also be made available in Source Code Form,
as described in Section 3.1, and You must inform recipients of the
Executable Form how they can obtain a copy of such Source Code Form by
reasonable means in a timely manner, at a charge no more than the cost
of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this
License, or sublicense it under different terms, provided that the
license for the Executable Form does not attempt to limit or alter the
recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty, or
limitations of liability) contained within the Source Code Form of the
Covered Software, except that You may alter any license notices to the
extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute,
judicial order, or regulation then You must: (a) comply with the terms of
this License to the maximum extent possible; and (b) describe the
limitations and the code they affect. Such description must be placed in a
text file included with all distributions of the Covered Software under
this License. Except to the extent prohibited by statute or regulation,
such description must be sufficiently detailed for a recipient of ordinary
skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
fail to comply with any of its terms. However, if You become compliant,
then the rights granted under this License from a particular Contributor
```

```
are reinstated (a) provisionally, unless and until such Contributor
explicitly and finally terminates Your grants, and (b) on an ongoing
basis, if such Contributor fails to notify You of the non-compliance by
some reasonable means prior to 60 days after You have come back into
compliance. Moreover, Your grants from a particular Contributor are
reinstated on an ongoing basis if such Contributor notifies You of the
non-compliance by some reasonable means, this is the first time You have
received notice of non-compliance with this License from such
Contributor, and You become compliant prior to 30 days after Your receipt
of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis,
without warranty of any kind, either expressed, implied, or statutory,
including, without limitation, warranties that the Covered Software is free
of defects, merchantable, fit for a particular purpose or non-infringing.
The entire risk as to the quality and performance of the Covered Software
is with You. Should any Covered Software prove defective in any respect,
You (not any Contributor) assume the cost of any necessary servicing,
repair, or correction. This disclaimer of warranty constitutes an essential
part of this License. No use of any Covered Software is authorized under
this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses, even if such party shall have been
informed of the possibility of such damages. This limitation of liability
shall not apply to liability for death or personal injury resulting from
such party's negligence to the extent applicable law prohibits such
limitation. Some jurisdictions do not allow the exclusion or limitation of
incidental or consequential damages, so this exclusion and limitation may
not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts
of a jurisdiction where the defendant maintains its principal place of
business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions. Nothing
in this Section shall prevent a party's ability to bring cross-claims or
counter-claims.

9. Miscellaneous
```

```
This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides that
the language of a contract shall be construed against the drafter shall not
be used to construe this License against a Contributor.


10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses If You choose to distribute Source Code Form that is
Incompatible With Secondary Licenses under the terms of this version of
the License, the notice described in Exhibit B of this License must be
attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.



27.github.com\howeyc\gopass
ISC License
```

Copyright (c) 2012 Chris Howey

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

28. github.com\imdario\mergo

Copyright (c) 2013 Dario Castañé. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

29. github.com\inconshreveable\mousetrap
github.com\jbenet\go-context

The MIT License (MIT)

Copyright (c) 2014 Juan Batiz-Benet

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.




30. github.com\jbrukh\bayesian
Copyright (c) 2011. Jake Brukhman

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above
copyright notice, this list of conditions and the
following disclaimer.
2. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.
3. The name of the author may not be used to endorse or
promote products derived from this software without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


31. github.com\Jeffail\gabs

Copyright (c) 2014 Ashley Jeffs

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



32. github.com\jenkins-x\chyle
MIT License

Copyright (c) 2016 antham

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



33. github.com\jenkins-x\golang-jenkins

The MIT License (MIT) Copyright © 2014 Kohei YOSHIDA

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
“Software”), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
34. github.com\json-iterator\go

MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



35. github.com\kevinburke\ssh_config

Copyright (c) 2017 Kevin Burke.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

===================

The lexer and parser borrow heavily from github.com/pelletier/go-toml. The
license for that project is copied below.

The MIT License (MIT)

Copyright (c) 2013 - 2017 Thomas Pelletier, Eric Anderton
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



37. github.com\knq\snaker
github.com\knq\sysutil
The MIT License (MIT)

Copyright (c) 2016-2017 Kenneth Shaw

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


38. github.com\mailru\easyjson
Copyright (c) 2016 Mail.Ru Group

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.




39. github.com\MakeNowJust\heredoc

The MIT License (MIT)

Copyright (c) 2014-2017 TSUYUSATO Kitsune

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.




40. github.com\Masterminds\semver

The Masterminds
Copyright (C) 2014-2015, Matt Butcher and Matt Farina

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


41. github.com\mattn\go-colorable
The MIT License (MIT)

Copyright (c) 2016 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


42.github.com\mattn\go-isatty

Copyright (c) Yasuhiro MATSUMOTO

MIT License (Expat)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



43. github.com\mgutz\ansi

The MIT License (MIT)
Copyright (c) 2013 Mario L. Gutierrez
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

44. github.com\mitchellh\go-homedir
The MIT License (MIT)

Copyright (c) 2013 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


45. github.com\nlopes\slack
Copyright (c) 2015, Norberto Lopes
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or
other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



46.github.com\Pallinder\go-randomdata

The MIT License (MIT)

Copyright (c) 2013 David Pallinder

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



47. github.com\pborman\uuid
Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



48.github.com\pkg\browser

Copyright (c) 2014, Dave Cheney
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




49.github.com\pkg\errors
Copyright (c) 2015, Dave Cheney
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


50.github.com\pmezard\go-difflib

Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




51. github.com\russross\blackfriday
Blackfriday is distributed under the Simplified BSD License:

> Copyright © 2011 Russ Ross
> All rights reserved.
>
> Redistribution and use in source and binary forms, with or without
> modification, are permitted provided that the following conditions
> are met:
>
> 1. Redistributions of source code must retain the above copyright
> notice, this list of conditions and the following disclaimer.
>
> 2. Redistributions in binary form must reproduce the above
> copyright notice, this list of conditions and the following
```

```
> disclaimer in the documentation and/or other materials provided with
> the distribution.
>
> THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
> "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
> LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
> FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
> COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
> INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
> BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
> LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
> CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
> LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
> ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
> POSSIBILITY OF SUCH DAMAGE.




52. github.com\sergi\go-diff

Copyright (c) 2012-2016 The go-diff Authors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.



53. github.com\sirupsen\logrus
The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


54. github.com\spf13\pflag
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



55. github.com\src-d\gcfg
Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




56.github.com\stretchr\testify

Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell

Please consider promoting this project if you find it useful.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: GlassFish / Component(s): jersey-hk2 2.31

```
****DEVELOPMENT MUST INSERT THE INFORMATION IN THE SECTIONS BELOW******
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:
1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).
2.  All past Contributors to the {INSERT THE NAME OF THE EPL CODE} disclaim
 all warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose.  In
 addition, such Contributors are not liable for any damages, including
 direct, indirect, special, incidental and consequential damages, such as
 lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.
4.  { IF THERE ARE MODIFICATIONS OR ADDITIONS, INSERT THE FOLLOWING} Oracle
 has modified the following files {LIST FILES}
5.  { IF EXECUTABLES ARE UNDER ORACLE AGREEMENT AS OPPOSED TO THE EPL,
 INSERT THE FOLLOWING} These files are licensed in executable form under
 your Oracle license agreement.  Oracle is solely responsible for any
 representations and warranties contained therein.
_____________________________________________________________________

  Copyright (c) 2018 Payara Foundation and/or its affiliates. All rights
 reserved.
```

```
  Copyright (c) 2018,2019 Payara Foundation and/or its affiliates.
  Copyright (c) 2010,2020 Oracle and/or its affiliates. All rights reserved.
---------------------------------------------

Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.
```

```
2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;
```

```
     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.
```

```
5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.
```

```
Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

-------------------------------------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"jakarta.ws.rs-api" (jakarta.ws.rs:jakarta.ws.rs-api)
  Copyright (c) 2010,2019 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2006 Google Inc.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"jersey-core-common" (org.glassfish.jersey.core:jersey-common)
  Copyright (c) 2007,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2018 Payara Foundation and/or its affiliates.
  Copyright (C) 2006,2014 The Guava Authors
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"Jakarta Annotations API" (jakarta.annotation:jakarta.annotation-api)
  Copyright (c) 2005,2018 Oracle and/or its affiliates. All rights reserved.
  Copyright &#169; 2019 Eclipse Foundation. All rights reserved.<br>
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"OSGi resource locator" (org.glassfish.hk2:osgi-resource-locator)
  Copyright (c) 2009,2018 Oracle and/or its affiliates. All rights reserved.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"javax.inject:1 as OSGi bundle" (org.glassfish.hk2.external:jakarta.inject)
  Copyright (C) 2009 The JSR-330 Expert Group
  Copyright (c) 2010,2018 Oracle and/or its affiliates. All rights reserved.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"Jakarta Activation" (com.sun.activation:jakarta.activation)
  Copyright (c) 1997,2019 Oracle and/or its affiliates. All rights reserved.

Eclipse Distribution License - v 1.0 Copyright (c) 2007, Eclipse Foundation,
Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
```

```
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list
of conditions and the following disclaimer. Redistributions in binary form
 must
reproduce the above copyright notice, this list of conditions and the
 following
disclaimer in the documentation and/or other materials provided with the
distribution. Neither the name of the Eclipse Foundation, Inc. nor the names
 of
its contributors may be used to endorse or promote products derived from
 this
software without specific prior written permission. THIS SOFTWARE IS
 PROVIDED BY
THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
 OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------
```

Provider: Glen Smith / Component(s): OpenCSV 5.4

```
opencsv

--------------------Copyright Notice-----------------------

Copyright 2005 Bytecode Pty Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Modifications Copyright (c) 2019 Kevin Kußmaul

-------------------------License text------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
```

```
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   Changes to original Implementation:
```

```
ADD methods:
  Optional<IOException> getException()
  to get the exception stored by ICSVWriter, AbstractCSVWriter or CSVWriter

  void resetError()
  to reset the exception stored by ICSVWriter, AbstractCSVWriter or
 CSVWriter

ADD Test-Cases:
    getExceptionReturnsException()
    getExceptionReturnsExceptionUsingPrintWriter()
    resetException()
    resetError()

    to test the added methods

=====================================================================
4th Party Dependencies
=====================================================================

commons-beanutils.commons-beanutils (Apache 2.0)

Copyright Notice :
-------------------
Apache Commons BeanUtils
Copyright 2000-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

License text : [0] in License reference.

-----------------------------------------------
seperator---------------------------------------------
--------------------

commons-logging.commons-logging  (Apache 2.0)

Copyright Notice :
-------------------
Apache Commons Logging
Copyright 2003-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

License text : [0] in License reference.

-----------------------------------------------
seperator---------------------------------------------
---------------------

commons-collections.commons-collections (Apache 2.0)
org.apache.commons.commons-collections4(Apache 2.0)

Copyright Notice :
-------------------
Apache Commons Collections
Copyright 2001-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
License text : [0] in License reference.

-----------------------------------------------------
seperator----------------------------------------
-------------------------

org.apache.commons.commons-lang3 (Apache 2.0)

Copyright Notice :
-------------------
Apache Commons Lang
Copyright 2001-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

License text : [0] in License reference.

-----------------------------------------------------
seperator--------------------------------------

org.apache.commons.commons-text (Apache 2.0)

Copyright Notice :
-------------------
Apache Commons Text
Copyright 2014-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

License text : [0] in License reference.

=========================================================

License References are mentioned below.

================== Start License Reference [0] ===================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

========================== End License Reference [0] =======================
```

Provider: go-dockerclient authors / Component(s): go-dockerclient 1.2.2

```
go-dockerclient 1.2.2

Copyright (c) 2013-2018, go-dockerclient authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


============================
4P Dependencies:

go-winio version 0.4.5
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---
docker version 3dfb26ab3cbf961298f8ce3f94659b5fe4146ceb

COPYRIGHT:
Docker
Copyright 2012-2017 Docker, Inc.
This product includes software developed at Docker, Inc. (https://
www.docker.com).
```

```
This product contains software (https://github.com/kr/pty) developed
by Keith Rarick, licensed under the MIT License.
LICENSE:
Copyright (c) 2011 Keith Rarick

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall
be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


The following is courtesy of our legal counsel:
Use and transfer of Docker may be subject to certain restrictions by the
United States and other governments.
It is your responsibility to ensure that your use and/or transfer does not
violate applicable laws.

For more information, please see https://www.bis.doc.gov

See also https://www.apache.org/dev/crypto.html and/or seek legal counsel.



LICENSE: Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2013-2018 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.


---

go-units version 0.3.2
COPYRIGHT: Copyright 2015 Docker, Inc.
LICENSE: Apache 2.0 https://github.com/docker/go-units/blob/v0.3.2/LICENSE


---
go-cmp version 0.2.0
COPYRIGHT and LICENSE:
Copyright (c) 2017 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
```

```
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
gorilla mux version 1.5.0
COPYRIGHT and LICENSE:
Copyright (c) 2012 Rodrigo Moraes. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
Gotty version a8b993ba6abdb0e0c12b0125c603323a71c7790c
COPYRIGHT and LICENSE:
Copyright (c) 2012, Neal van Veen (nealvanveen@gmail.com)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
```

```
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are
 those
of the authors and should not be interpreted as representing official
 policies,
either expressed or implied, of the FreeBSD Project.


---
libnetwork version 19279f0492417475b6bfbd0aa529f73e8f178fb5
COPYRIGHT: Copyright (c) 2014-2016 The Docker & Go Authors. All rights
 reserved.
LICENSE: Apache 2.0 https://github.com/docker/libnetwork/blob/master/LICENSE
```

Provider: GoGo Authors / Component(s): Protocol Buffers for Go with Gadgets 1.2.1

```
https://github.com/gogo/protobuf/blob/v1.0.0/LICENSE

Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------

https://golang.org/LICENSE

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Go-ini Authors / Component(s): go-ini 1.28.0

```
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.
```

```
"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."
```

```
"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
```

```
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
```

```
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Gokmen Goksel / Component(s): hcl-to-json 0.1.1

```
resteasy 3.6.3.FINAL

COPYRIGHT:
  ~ JBoss, Home of Professional Open Source.
  ~ Copyright 2011, Red Hat, Inc., and individual contributors

LICENSE: Apache 2.0

Apache License
  Version 2.0, January 2004
   http://www.apache.org/licenses/
```

```
 TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

 2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
```

```
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

 3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

 5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
```

```
 by You to the Licensor shall be under the terms and conditions of
 this License, without any additional terms or conditions.
 Notwithstanding the above, nothing herein shall supersede or modify
 the terms of any separate license agreement you may have executed
 with Licensor regarding such Contributions.

  6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor,
 except as required for reasonable and customary use in describing the
 origin of the Work and reproducing the content of the NOTICE file.

  7. Disclaimer of Warranty. Unless required by applicable law or
 agreed to in writing, Licensor provides the Work (and each
 Contributor provides its Contributions) on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied, including, without limitation, any warranties or conditions
 of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
 PARTICULAR PURPOSE. You are solely responsible for determining the
 appropriateness of using or redistributing the Work and assume any
 risks associated with Your exercise of permissions under this License.

  8. Limitation of Liability. In no event and under no legal theory,
 whether in tort (including negligence), contract, or otherwise,
 unless required by applicable law (such as deliberate and grossly
 negligent acts) or agreed to in writing, shall any Contributor be
 liable to You for damages, including any direct, indirect, special,
 incidental, or consequential damages of any character arising as a
 result of this License or out of the use or inability to use the
 Work (including but not limited to damages for loss of goodwill,
 work stoppage, computer failure or malfunction, or any and all
 other commercial damages or losses), even if such Contributor
 has been advised of the possibility of such damages.

  9. Accepting Warranty or Additional Liability. While redistributing
 the Work or Derivative Works thereof, You may choose to offer,
 and charge a fee for, acceptance of support, warranty, indemnity,
 or other liability obligations and/or rights consistent with this
 License. However, in accepting such obligations, You may act only
 on Your own behalf and on Your sole responsibility, not on behalf
 of any other Contributor, and only if You agree to indemnify,
 defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
 of your accepting any such warranty or additional liability.

  END OF TERMS AND CONDITIONS

4P Dependencies:

org.jboss.logging.jboss-logging
COPYRIGHT: JBoss, Home of Professional Open Source. Copyright 2010 Red Hat,
 Inc.
LICENSE: Apache 2.0

org.jboss.logging.jboss-logging-annotations 2.1.0.Final
org.jboss.logging.jboss-logging-processor2.1.0.Final
COPYRIGHT: JBoss, Home of Professional Open Source. Copyright 2016, Red Hat,
 Inc., and individual contributors
LICENSE: Apache 2.0

org.apache.httpcomponents.httpclient 4.5.4
COPYRIGHT: Copyright 1999-2017 The Apache Software Foundation
LICENSE: Apache 2.0

org.apache.httpcomponents.httpasyncclient 4.1.3
```

```
COPYRIGHT: Copyright 2010-2017 The Apache Software Foundation
LICENSE: Apache 2.0

commons-io 2.5
COPYRIGHT: Copyright 2002-2016 The Apache Software Foundation
LICENSE: Apache 2.0

net.jcip.jcip-annotations 1.0
COPYRIGHT:  Copyright 2013 Stephen Connolly.
LICENSE: Apache 2.0

org.jboss.spec.javax.annotation.jboss-annotations-api_1.3_spec
org.jboss.spec.javax.servlet.jboss-servlet-api_4.0_spec 1.0.0.Final
org.jboss.spec.javax.ws.rs » jboss-jaxrs-api_2.1_spec 1.0.2.Final
org.jboss.spec.javax.xml.bind-api_2.3_spec 1.0.1.Final

COPYRIGHT: JBoss, Home of Professional Open Source. Copyright 2013, Red Hat
 Middleware LLC, and individual contributors by the @authors tag.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
```

```
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
```

```
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
```

```
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.
```

```
Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.
```

```
    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."

You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
```

```
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.
```

Provider: golang-jwt maintainers / Component(s): jwt-go 4.41

```
github.com/golang-jwt/jwt/v4
-------- Copyrights
Copyright (c) 2012 Dave Grijalva
Copyright (c) 2021 golang-jwt maintainers

-------- License
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

ATTRIBUTION-HELPER-GENERATED:
```

```
License file based on go.mod with md5 sum: 157739624529607 84f6e38908d02a733
```

Provider: Google / Component(s): error_prone_annotations 2.3.2

```
Copyright 2017 The Error Prone Authors.

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.



                           Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Google / Component(s): fire 0.5.0

```
===================================Third Party
 Info===================================
fire
Apache Software License
Copyright 2017 Google Inc. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

===================================Fourth Party
 Info===================================
##########################################
Fourth party public dependencies
##########################################
fire
six
termcolor
```

```
----------------------------------------------
fire
Apache Software License

----------------------------------------------
six
MIT License
Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
termcolor
MIT License
Copyright (c) 2008-2011 Volvox Development Team

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
==================================Licenses==================================
Apache Software License
Copyright 2017 Google Inc. All rights reserved.
```

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------------------------------------------
```

Provider: Google / Component(s): fire 0.5.0

```
===================================Third Party
 Info===================================
fire
Apache Software License
Copyright 2017 Google Inc. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

===================================Fourth Party
 Info===================================
##########################################
Fourth party public dependencies
##########################################
fire
six
termcolor
----------------------------------------------
fire
Apache Software License

----------------------------------------------
six
MIT License
Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
termcolor
MIT License
Copyright (c) 2008-2011 Volvox Development Team

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
===================================Licenses===================================
Apache Software License
Copyright 2017 Google Inc. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------------------------------------------
```

Provider: Google / Component(s): gofuzz 1.0.0

```
Copyright 2014 Google Inc. All rights reserved.
Licensed under the Apache License, Version 2.0 (the "License");
```

```
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Google / Component(s): GoLang GRPC 1.10.0

```
                              Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
```

```
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Google / Component(s): Google API Client Libraries - Google Cloud Monitoring 3.36.0

```
------------------------------- Top-level license --------------------------
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------- Copyright notices --------------------------
Copyright 2021 Google LLC


---------------------------- Dependency information -----------------------
== NAME OF DEPENDENCY 1
io.grpc:grpc-api
== License Type
Apache-2.0
```

```
== Copyright Notices
Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------------------------------------------------------------------

This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:

  * LICENSE:
    * Apache License 2.0
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp

This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:

  * LICENSE:
    * Apache License 2.0
  * NOTICE:
    * Envoy
      Copyright The Envoy Project Authors

      Licensed under Apache License 2.0.  See LICENSE for terms.
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy

This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:

  * LICENSE:
    * Apache License 2.0
  * NOTICE:
    * protoc-gen-validate
      Copyright 2019 Envoy Project Authors

      Licensed under Apache License 2.0. See LICENSE for terms.
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate

This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:

  * LICENSE:
```

```
    * Apache License 2.0
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
io.grpc:grpc-context
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
com.google.code.findbugs:jsr305
== License Type
BSD License
== Copyright Notices
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
net.jcip:jcip-annotations
== License Type
== jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
```

```
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
== Copyright Notices
Copyright (c) 2005, Brian Goetz and Tim Peierls
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 5
com.google.errorprone:error_prone_annotations
== License Type
Apache-2.0
== Copyright Notices
Copyright 2020 The Error Prone Authors.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 6
io.grpc:grpc-stub
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 7
io.grpc:grpc-protobuf
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 8
io.grpc:grpc-protobuf-lite
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 9
com.google.api:api-common
== License Type
Copyright 2016, Google Inc.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
```

```
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
== Copyright Notices
Copyright 2016, Google Inc.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 10
com.google.auto.value:auto-value-annotations
== License Type
Copyright 2013 Google LLC

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
== Copyright Notices
Copyright 2013 Google LLC
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 11
com.google.auto.value:auto-value
== License Type
Copyright 2013 Google LLC

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
== Copyright Notices
Copyright 2013 Google LLC
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 12
io.grpc:grpc-api
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 13
com.google.protobuf:protobuf-java
== License Type
```

```
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
== Copyright Notices
Copyright 2008 Google Inc.  All rights reserved.
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 14
com.google.api.grpc:proto-google-common-protos
== License Type
Apache-2.0
== Copyright Notices
Copyright 2017 Google Inc
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 15
com.google.api.grpc:proto-google-cloud-monitoring-v3
== License Type
Apache-2.0
== Copyright Notices
Copyright 2022 Google LLC
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 16
com.google.guava:guava
== License Type
Apache-2.0
== Copyright Notices
Copyright (C) 2012 The Guava Authors
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 17
com.google.guava:failureaccess
== License Type
Apache-2.0
== Copyright Notices
Copyright (C) 2012 The Guava Authors
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 18
```

```
com.google.guava:listenablefuture
== License Type
Apache-2.0
== Copyright Notices
Copyright (C) 2012 The Guava Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 19
org.checkerframework:checker-qual
== License Type
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
== Copyright Notices
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 20
com.google.j2objc:j2objc-annotations
== License Type
Apache-2.0
== Copyright Notices
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 21
com.google.api:gax
== License Type
Copyright 2016, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
== Copyright Notices
Copyright 2016, Google Inc. All rights reserved.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 22
com.google.auth:google-auth-library-credentials
== License Type
Copyright 2014, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
== Copyright Notices
Copyright 2014, Google Inc. All rights reserved.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 23
io.opencensus:opencensus-api
== License Type
Apache-2.0
== Copyright Notices
Copyright 2018, OpenCensus Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 24
com.google.api:gax-grpc
== License Type
Copyright 2016, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
```

```
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
== Copyright Notices
Copyright 2016, Google Inc. All rights reserved.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 25
io.grpc:grpc-alts
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 26
io.grpc:grpc-grpclb
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 27
com.google.protobuf:protobuf-java-util
== License Type
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
== Copyright Notices
Copyright 2008 Google Inc.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 28
org.conscrypt:conscrypt-openjdk-uber
== License Type
Apache-2.0
== Copyright Notices
Copyright 2016 The Android Open Source Project

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------------------------------------------------------------
This product contains a modified portion of `Netty`, a configurable network
stack in Java, which can be obtained at:

  * LICENSE:
    * licenses/LICENSE.netty.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://netty.io/

This product contains a modified portion of `Apache Harmony`, modular Java
 runtime,
which can be obtained at:

  * LICENSE:
    * licenses/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://harmony.apache.org/
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 29
io.grpc:grpc-auth
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 30
io.grpc:grpc-netty-shaded
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 31
io.perfmark:perfmark-api
== License Type
Apache-2.0
```

```
== Copyright Notices
Copyright 2019 Google LLC

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------------------------------------------------------------

This product contains a modified portion of 'Catapult', an open source
Trace Event viewer for Chome, Linux, and Android applications, which can
be obtained at:

* LICENSE:
* Copyright 2015 The Chromium Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of catapult nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
* HOMEPAGE:
  * https://github.com/catapult-project/catapult

This product contains a modified portion of 'Polymer', a library for Web
Components, which can be obtained at:
* LICENSE:
// Copyright (c) 2012 The Polymer Authors. All rights reserved.
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
// met:
//
```

```
//    * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
//    * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following disclaimer
// in the documentation and/or other materials provided with the
// distribution.
//    * Neither the name of Google Inc. nor the names of its
// contributors may be used to endorse or promote products derived from
// this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
* HOMEPAGE:
  * https://github.com/Polymer/polymer


This product contains a modified portion of 'ASM', an open source
Java Bytecode library, which can be obtained at:

* LICENSE:
ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
* HOMEPAGE:
  * https://asm.ow2.io/
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 32
io.grpc:grpc-core
== License Type
Apache-2.0
== Copyright Notices
```

```
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 34
org.codehaus.mojo:animal-sniffer-annotations
== License Type
The MIT License

Copyright (c) 2009 codehaus.org.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
== Copyright Notices
Copyright (c) 2009 codehaus.org.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 35
io.grpc:grpc-googleapis
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 36
io.grpc:grpc-xds
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 37
io.opencensus:opencensus-proto
== License Type
Apache-2.0
== Copyright Notices
Copyright 2018, OpenCensus Authors
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 38
io.grpc:grpc-services
== License Type
Apache-2.0
== Copyright Notices
Same as DEPENDENCY 1 above
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 39
com.google.re2j:re2j
== License Type
This is a work derived from Russ Cox's RE2 in Go, whose license
http://golang.org/LICENSE is as follows:
```

```
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.

   * Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
     distribution.

   * Neither the name of Google Inc. nor the names of its contributors
     may be used to endorse or promote products derived from this
     software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
== Copyright Notices
Copyright (c) 2009 The Go Authors. All rights reserved.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 40
org.threeten:threetenbp
== License Type
Copyright (c) 2007-present, Stephen Colebourne & Michael Nascimento Santos.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of JSR-310 nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
```

```
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
== Copyright Notices
Copyright (c) 2007-present, Stephen Colebourne & Michael Nascimento Santos.
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 41
com.google.auth:google-auth-library-oauth2-http
== License Type
Copyright 2014, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
== Copyright Notices
Copyright 2014, Google Inc. All rights reserved.
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 42
com.google.http-client:google-http-client
== License Type
Apache-2.0
== Copyright Notices
Copyright 2021 Google LLC
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 43
org.apache.httpcomponents:httpclient
== License Type
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

============================================================================

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
```

```
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

    (a) that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or

    (b) that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the
        terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.
```

```
2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
```

```
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
```

```
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
```

```
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions
```

```
If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.
== Copyright Notices
Apache HttpComponents Client
Copyright 1999-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 44
commons-logging:commons-logging
== License Type
Apache-2.0
== Copyright Notices
Apache Commons Logging
Copyright 2003-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 45
commons-codec:commons-codec
== License Type
Apache-2.0
== Copyright Notices
Apache Commons Codec
Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
```

```
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

==============================================================================

The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 46
org.apache.httpcomponents:httpcore
== License Type
Apache-2.0
== Copyright Notices
Apache HttpComponents Core
Copyright 2005-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 47
io.opencensus:opencensus-contrib-http-util
== License Type
Apache-2.0
== Copyright Notices
Copyright 2018, OpenCensus Authors
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 48
com.google.http-client:google-http-client-gson
== License Type
Apache-2.0
== Copyright Notices
Copyright 2021 Google LLC
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 49
com.google.code.gson:gson
== License Type
Apache-2.0
== Copyright Notices
Copyright (C) 2021 Google Inc.
```

Provider: Google / Component(s): google-http-client 1.43.3

```
google-http-client

Copyright (c) 2011 Google Inc.

Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
Copyright (c) 2011 Google Inc.

--------------------------------------------------------------------------------
Guava
Copyright (C) 2011 The Guava Authors

License
Apache License 2.0

--------------------------------------------------------------------------------
j2objc-annotations

Copyright (c) 2010 Google Inc.

License
Apache License 2.0
------------------------------------------------------------------------------
The next section, BSD-3-Clause, applies to the files in:
jre_emul/android/platform/libcore/ojluni/src/main/java/java/time
------------------------------------------------------------------------------
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of JSR-310 nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
opencensus-api

Copyright 2017, OpenCensus Authors

License
Apache License 2.0

--------------------------------------------------------------------------------
FindBugs JSR305

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------
== jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------
Apache HttpComponents Client
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
License
Apache License 2.0

http://www.apache.org/licenses/LICENSE-2.0

==========================================================================

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

    (a) that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or

    (b) that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the
        terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:
```

```
    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
```

```
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and
```

```
(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
```

```
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
```

```
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------
```

```
  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

--------------------4th party
 dependencies-----------------------------------

Apache HttpComponents Core
From the Notice File:
 Apache HttpComponents Core
 Copyright 2005-2020 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).
License File:
 Apache License Version 2.0


Apache Commons Logging
From the Notice File:
 Apache Commons Logging
 Copyright 2003-2014 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).
License File:
 Apache License Version 2.0


Apache Commons Codec
From the Notice File:
 Apache Commons Codec
 Copyright 2002-2017 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).

 src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
 contains test data from http://aspell.net/test/orig/batch0.tab.
 Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

 ===============================================================================

 The content of package org.apache.commons.codec.language.bm has been
 translated
 from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
 with permission from the original authors.
 Original source copyright:
 Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
License File:
 Apache License Version 2.0
-----------------------------------------------------------------------------------------------
Google Error Prone

Copyright 2011 The Error Prone Authors.

License
Apache License 2.0

-----------------------------------------------------------------------------------------------
io.grpc:grpc-context

Copyright 2014 The gRPC Authors
```

```
Apache 2.0 License

---------------------------------------------------------------------------------------------
com.google.guava:failureaccess

Copyright (C) 2018 The Guava Authors

Apache 2.0 License
---------------------------------------------------------------------------------------------
com.google.guava:listenablefuture

Copyright (C) 2018 The Guava Authors

Apache 2.0 License
---------------------------------------------------------------------------------------------
org.checkerframework:checker-qual

Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
---------------------------------------------------------------------------------------------
```

Provider: Google / Component(s): go-querystring 53e6ce1

```
Copyright (c) 2013 Google. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Google / Component(s): GSON 2.10

```
Google Gson

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
```

```
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
```

```
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
-----------------------------------------------
Copyright (C) 2008 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Google / Component(s): GSON 2.8.6

```
Google Gson

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright (C) 2008 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2009 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2010 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2011 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
```

```
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

 Copyright (C) 2012 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2014 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2015 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2016 The Gson Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2016 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
```

```
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2017 The Gson authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2017 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2018 The Gson authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Google / Component(s): GSON 2.8.7

```
Google Gson

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
```

```
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright (C) 2008 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2009 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2010 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2011 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

 Copyright (C) 2012 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2014 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
Copyright (C) 2015 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2016 The Gson Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2016 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2017 The Gson authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2017 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2018 The Gson authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Google / Component(s): Guava 14.0.1-1

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Google / Component(s): Guava 24.1.1

```
google guava 24.1.1

COPYRIGHT: Copyright (C) 2008 The Guava Authors

LICENSE: Apache 2.0
                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
```

```
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
```

```
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
```

```
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
 limitations under the License.



-----------------
4P Dependencies:

com.google.code.findbugs jsr305 1.3.9
```

```
COPYRIGHT: Copyright 2011 Google Inc. All Rights Reserved.

LICENSE: BSD
The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:

  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:

http://code.google.com/p/jsr-305/

Note: This license has also been called the "New BSD License" or "Modified
 BSD License". See also the 2-clause BSD License.

Copyright <YEAR> <COPYRIGHT HOLDER>

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


---
org.checkerframework checker-compat-qual 2.0.0
COPYRIGHT:Copyright 2004-present by the Checker Framework developers
LICENSE:
Most of the Checker Framework is licensed under the GNU General Public
License, version 2 (GPL2), with the classpath exception.  The text of this
license appears below.  This is the same license used for OpenJDK.

A few parts of the Checker Framework have more permissive licenses.

 * The annotations are licensed under the MIT License.  (The text of this
   license appears below.)  More specifically, all the parts of the Checker
   Framework that you might want to include with your own program use the
   MIT License.  This is the checker-qual.jar file and all the files that
   appear in it:  every file in a qual/ directory, plus NullnessUtils.java
   and RegexUtil.java.  In addition, the cleanroom implementations of
   third-party annotations, which the Checker Framework recognizes as
   aliases for its own annotations, are licensed under the MIT License.

 * The Maven plugin is dual-licensed (you may use whichever you prefer)
```

```
   under GPL2 and the Apache License, version 2.0 (Apache2).  The text of
   Apache2 appears in file maven-plugin/LICENSE.txt.  Maven itself uses
   Apache2.

 * The Eclipse plugin is dual-licensed (you may use whichever you prefer)
   under GPL2 and the Eclipse Public License Version 1.0 (EPL).  EPL
   appears http://www.eclipse.org/org/documents/epl-v10.php.  Eclipse
   itself uses EPL.

Some external libraries that are included with the Checker Framework have
different licenses.

 * javaparser is licensed under the LGPL.  (The javaparser source code
   contains a file with the text of the GPL, but it is not clear why, since
   javaparser does not use the GPL.)  See file javaparser/COPYING.LESSER
   and the source code of all its files.

 * JUnit is licensed under the Common Public License v1.0 (see
   http://www.junit.org/license), with parts (Hamcrest) licensed under the
   BSD License (see http://hamcrest.org/JavaHamcrest/).

 * plume-lib is licensed under the MIT License.

The Checker Framework includes annotations for several libraries, in
directory checker/jdk/.  Each annotated library uses the same license as
the unannotated version of the library.
-----------------

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
 share
and change it.  By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users.  This General Public License applies to
most of the Free Software Foundation's software and to any other program
 whose
authors commit to using it.  (Some other Free Software Foundation software
 is
covered by the GNU Library General Public License instead.) You can apply it
 to
your programs, too.

When we speak of free software, we are referring to freedom, not price.  Our
General Public Licenses are designed to make sure that you have the freedom
 to
distribute copies of free software (and charge for this service if you
 wish),
that you receive source code or can get it if you want it, that you can
 change
the software or use pieces of it in new free programs; and that you know you
can do these things.
```

```
To protect your rights, we need to make restrictions that forbid anyone to
 deny
you these rights or to ask you to surrender the rights.  These restrictions
translate to certain responsibilities for you if you distribute copies of
 the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or
 for
a fee, you must give the recipients all the rights that you have.  You must
make sure that they, too, receive or can get the source code.  And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also, for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software.  If
 the
software is modified by someone else and passed on, we want its recipients
 to
know that what they have is not the original, so that any problems
 introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents.  We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
 proprietary.
To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
placed by the copyright holder saying it may be distributed under the terms
 of
this General Public License.  The "Program", below, refers to any such
 program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
Program or a portion of it, either verbatim or with modifications and/or
translated into another language.  (Hereinafter, translation is included
without limitation in the term "modification".) Each licensee is addressed
 as
"you".

Activities other than copying, distribution and modification are not covered
 by
this License; they are outside its scope.  The act of running the Program is
not restricted, and the output from the Program is covered only if its
 contents
constitute a work based on the Program (independent of having been made by
running the Program).  Whether that is true depends on what the Program
 does.

1. You may copy and distribute verbatim copies of the Program's source code
 as
you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
```

```
disclaimer of warranty; keep intact all the notices that refer to this
 License
and to the absence of any warranty; and give any other recipients of the
Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you
 may
at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it,
 thus
forming a work based on the Program, and copy and distribute such
 modifications
or work under the terms of Section 1 above, provided that you also meet all
 of
these conditions:

    a) You must cause the modified files to carry prominent notices stating
    that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole
 or
    in part contains or is derived from the Program or any part thereof, to
 be
    licensed as a whole at no charge to all third parties under the terms of
    this License.

    c) If the modified program normally reads commands interactively when
 run,
    you must cause it, when started running for such interactive use in the
    most ordinary way, to print or display an announcement including an
    appropriate copyright notice and a notice that there is no warranty (or
    else, saying that you provide a warranty) and that users may
 redistribute
    the program under these conditions, and telling the user how to view a
 copy
    of this License.  (Exception: if the Program itself is interactive but
 does
    not normally print such an announcement, your work based on the Program
 is
    not required to print an announcement.)

These requirements apply to the modified work as a whole.  If identifiable
sections of that work are not derived from the Program, and can be
 reasonably
considered independent and separate works in themselves, then this License,
 and
its terms, do not apply to those sections when you distribute them as
 separate
works.  But when you distribute the same sections as part of a whole which
 is a
work based on the Program, the distribution of the whole must be on the
 terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise
 the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with
 the
```

```
Program (or with a work based on the Program) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of Sections 1
 and
2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable source
    code, which must be distributed under the terms of Sections 1 and 2
 above
    on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three years, to
    give any third party, for a charge no more than your cost of physically
    performing source distribution, a complete machine-readable copy of the
    corresponding source code, to be distributed under the terms of Sections
 1
    and 2 above on a medium customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code.  (This alternative is allowed only
    for noncommercial distribution and only if you received the program in
    object code or executable form with such an offer, in accord with
    Subsection b above.)

The source code for a work means the preferred form of the work for making
modifications to it.  For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and
 installation
of the executable.  However, as a special exception, the source code
distributed need not include anything that is normally distributed (in
 either
source or binary form) with the major components (compiler, kernel, and so
 on)
of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to
 copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even
 though
third parties are not compelled to copy the source along with the object
 code.

4. You may not copy, modify, sublicense, or distribute the Program except as
expressly provided under this License.  Any attempt otherwise to copy,
 modify,
sublicense or distribute the Program is void, and will automatically
 terminate
your rights under this License.  However, parties who have received copies,
 or
rights, from you under this License will not have their licenses terminated
 so
long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed
 it.
However, nothing else grants you permission to modify or distribute the
 Program
or its derivative works.  These actions are prohibited by law if you do not
```

```
accept this License.  Therefore, by modifying or distributing the Program
 (or
any work based on the Program), you indicate your acceptance of this License
 to
do so, and all its terms and conditions for copying, distributing or
 modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
 Program),
the recipient automatically receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and
 conditions.
You may not impose any further restrictions on the recipients' exercise of
 the
rights granted herein.  You are not responsible for enforcing compliance by
third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
 conditions
are imposed on you (whether by court order, agreement or otherwise) that
contradict the conditions of this License, they do not excuse you from the
conditions of this License.  If you cannot distribute so as to satisfy
simultaneously your obligations under this License and any other pertinent
obligations, then as a consequence you may not distribute the Program at
 all.
For example, if a patent license would not permit royalty-free
 redistribution
of the Program by all those who receive copies directly or indirectly
 through
you, then the only way you could satisfy both it and this License would be
 to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply and
the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or
other property right claims or to contest validity of any such claims; this
section has the sole purpose of protecting the integrity of the free
 software
distribution system, which is implemented by public license practices.  Many
people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of
 that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose
 that
choice.

This section is intended to make thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Program under this License may add an
 explicit
geographical distribution limitation excluding those countries, so that
distribution is permitted only in or among countries not thus excluded.  In
such case, this License incorporates the limitation as if written in the
 body
```

```
of this License.

9. The Free Software Foundation may publish revised and/or new versions of
 the
General Public License from time to time.  Such new versions will be similar
 in
spirit to the present version, but may differ in detail to address new
 problems
or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
 later
version", you have the option of following the terms and conditions either
 of
that version or of any later version published by the Free Software
 Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission.  For software which is copyrighted by the Free Software
 Foundation,
write to the Free Software Foundation; we sometimes make exceptions for
 this.
Our decision will be guided by the two goals of preserving the free status
 of
all derivatives of our free software and of promoting the sharing and reuse
 of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
 OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
 THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE
 OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR
 DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH
 HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
```

```
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program.  It is safest to
 attach
them to the start of each source file to most effectively convey the
 exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.

    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify it
    under the terms of the GNU General Public License as published by the
 Free
    Software Foundation; either version 2 of the License, or (at your
 option)
    any later version.

    This program is distributed in the hope that it will be useful, but
 WITHOUT
    ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
    FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 for
    more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
 59
    Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when
 it
starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author Gnomovision
 comes
    with ABSOLUTELY NO WARRANTY; for details type 'show w'.  This is free
    software, and you are welcome to redistribute it under certain
 conditions;
    type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may be
called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
 school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
 Here
is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    'Gnomovision' (which makes passes at compilers) written by James Hacker.

    signature of Ty Coon, 1 April 1989

    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
```

```
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General Public
License instead of this License.


"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's
 header
the words "Oracle designates this particular file as subject to the
 "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this
 code."

    Linking this library statically or dynamically with other modules is
 making
    a combined work based on this library.  Thus, the terms and conditions
 of
    the GNU General Public License cover the whole combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
 modules,
    and to copy and distribute the resulting executable under terms of your
    choice, provided that you also meet, for each linked independent module,
    the terms and conditions of the license of that module.  An independent
    module is a module which is not derived from or based on this library.
 If
    you modify this library, you may extend this exception to your version
 of
    the library, but you are not obligated to do so.  If you do not wish to
 do
    so, delete this exception statement from your version.
-----------------

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-----------------
```

```
---
com.google.errorprone error_prone_annotations 2.1.3
COPYRIGHT: Copyright 2015 Google Inc. All Rights Reserved.
LICENSE: Apache 2.0 https://github.com/google/error-prone/blob/v2.1.3/
COPYING


---
com.google.j2objc j2objc-annotations 1.1
COPYRIGHT: Copyright 2012 Google Inc. All Rights Reserved.
LICENSE: Apache 2.0 https://github.com/google/j2objc/blob/1.1/LICENSE
```

Provider: Google / Component(s): Guava 26.0

```
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
```

```
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.
```

```
You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]
```

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Google / Component(s): Guava 27.0.1

```
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
```

```
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.
```

```
You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]
```

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Google / Component(s): Guava 27.1

```
google guava v27.1
/*
 * Copyright (C) 2008 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
 */

/**
 * Common annotation types. This package is a part of the open-source <a
 * href="http://github.com/google/guava">Guava</a> library.
 */


Apache 2.0

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.
```

```
"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
```

```
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


========================
Modules:
guava-bom
guava-gwt
guava-testlib
guava-tests
guava
refactorings
util
========================


4P Dependencies:

com.google.code.findbugs » jsr305 3.0.2

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

==================================

com.google.errorprone » error_prone_annotations 2.2.0

/*
 * Copyright 2017 The Error Prone Authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
=====================================


com.google.guava » failureaccess 1.0.1

/ *
* Copyright (C) 2018 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
 distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
* or implied. See the License for the specific language governing
 permissions and limitations under
* the License.
*/

==============================


com.google.guava » listenablefuture 9999.0-empty-...

/*
*An empty artifact that Guava depends on to signal that it is providing
*ListenableFuture -- but is also available in a second "version" that
```

```
*contains com.google.common.util.concurrent.ListenableFuture class, without
*any other Guava classes. The idea is:

*- If users want only ListenableFuture, they depend on listenablefuture-1.0.

*- If users want all of Guava, they depend on guava, which, as of Guava
27.0, depends on
*Listenablefuture-9999.0-empty-to-avoid-conflict-with-guava. The 9999.0-...
*version number is enough for some build systems (notably, Gradle) to select
*that empty artifact over the "real" listenablefuture-1.0 -- avoiding a
*conflict with the copy of ListenableFuture in guava itself. If users are
*using an older version of Guava or a build system other than Gradle, they
*may see class conflicts. If so, they can solve them by manually excluding
*the listenablefuture artifact or manually forcing their build systems to
*use 9999.0-....
*/

========================================

com.google.j2objc » j2objc-annotations 1.1
/*
  * Copyright 2012 Google Inc. All Rights Reserved.
  *
  * Licensed under the Apache License, Version 2.0 (the "License");
  * you may not use this file except in compliance with the License.
  * You may obtain a copy of the License at
  *
  * http://www.apache.org/licenses/LICENSE-2.0
  *
  * Unless required by applicable law or agreed to in writing, software
  * distributed under the License is distributed on an "AS IS" BASIS,
  * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  * See the License for the specific language governing permissions and
  * limitations under the License.
  */


==========================================

org.checkerframework » checker-qual 2.5.2
COPYRIGHT: Copyright 2004-present by the Checker Framework developers
LICENSE:

Most of the Checker Framework is licensed under the GNU General Public
License, version 2 (GPL2), with the classpath exception. The text of this
license appears below. This is the same license used for OpenJDK.

A few parts of the Checker Framework have more permissive licenses.

* The annotations are licensed under the MIT License. (The text of this
license appears below.) More specifically, all the parts of the Checker
Framework that you might want to include with your own program use the
MIT License. This is the checker-qual.jar file and all the files that
appear in it: every file in a qual/ directory, plus utility files such
as NullnessUtil.java, RegexUtil.java, SignednessUtil.java, etc.
In addition, the cleanroom implementations of third-party annotations,
which the Checker Framework recognizes as aliases for its own
annotations, are licensed under the MIT License.

Some external libraries that are included with the Checker Framework have
different licenses.

* javaparser is dual licensed under the LGPL or the Apache license -- you
may use it under whichever one you want. (The javaparser source code
```

```
contains a file with the text of the GPL, but it is not clear why, since
javaparser does not use the GPL.) See file stubparser/LICENSE
and the source code of all its files.

* JUnit is licensed under the Common Public License v1.0 (see
http://www.junit.org/license), with parts (Hamcrest) licensed under the
BSD License (see http://hamcrest.org/JavaHamcrest/).

* plume-lib is licensed under the MIT License.

The Checker Framework includes annotations for the JDK in directory
checker/jdk/, and for some other libraries. Each annotated library uses
the same license as the unannotated version of the library.

---------------------------------------------

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
 share
and change it. By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users. This General Public License applies to
most of the Free Software Foundation's software and to any other program
 whose
authors commit to using it. (Some other Free Software Foundation software is
covered by the GNU Library General Public License instead.) You can apply it
 to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
General Public Licenses are designed to make sure that you have the freedom
 to
distribute copies of free software (and charge for this service if you
 wish),
that you receive source code or can get it if you want it, that you can
 change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to
 deny
you these rights or to ask you to surrender the rights. These restrictions
translate to certain responsibilities for you if you distribute copies of
 the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or
 for
a fee, you must give the recipients all the rights that you have. You must
make sure that they, too, receive or can get the source code. And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
```

```
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also, for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software. If
 the
software is modified by someone else and passed on, we want its recipients
 to
know that what they have is not the original, so that any problems
 introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
 proprietary.
To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
placed by the copyright holder saying it may be distributed under the terms
 of
this General Public License. The "Program", below, refers to any such
 program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
Program or a portion of it, either verbatim or with modifications and/or
translated into another language. (Hereinafter, translation is included
without limitation in the term "modification".) Each licensee is addressed
 as
"you".

Activities other than copying, distribution and modification are not covered
 by
this License; they are outside its scope. The act of running the Program is
not restricted, and the output from the Program is covered only if its
 contents
constitute a work based on the Program (independent of having been made by
running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code
 as
you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
 License
and to the absence of any warranty; and give any other recipients of the
Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you
 may
at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it,
 thus
forming a work based on the Program, and copy and distribute such
 modifications
or work under the terms of Section 1 above, provided that you also meet all
 of
```

```
these conditions:

a) You must cause the modified files to carry prominent notices stating
that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or
in part contains or is derived from the Program or any part thereof, to be
licensed as a whole at no charge to all third parties under the terms of
this License.

c) If the modified program normally reads commands interactively when run,
you must cause it, when started running for such interactive use in the
most ordinary way, to print or display an announcement including an
appropriate copyright notice and a notice that there is no warranty (or
else, saying that you provide a warranty) and that users may redistribute
the program under these conditions, and telling the user how to view a copy
of this License. (Exception: if the Program itself is interactive but does
not normally print such an announcement, your work based on the Program is
not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable
sections of that work are not derived from the Program, and can be
 reasonably
considered independent and separate works in themselves, then this License,
 and
its terms, do not apply to those sections when you distribute them as
 separate
works. But when you distribute the same sections as part of a whole which is
 a
work based on the Program, the distribution of the whole must be on the
 terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise
 the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with
 the
Program (or with a work based on the Program) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of Sections 1
 and
2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source
code, which must be distributed under the terms of Sections 1 and 2 above
on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to
give any third party, for a charge no more than your cost of physically
performing source distribution, a complete machine-readable copy of the
corresponding source code, to be distributed under the terms of Sections 1
and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to
distribute corresponding source code. (This alternative is allowed only
for noncommercial distribution and only if you received the program in
```

```
object code or executable form with such an offer, in accord with
Subsection b above.)

The source code for a work means the preferred form of the work for making
modifications to it. For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and
 installation
of the executable. However, as a special exception, the source code
distributed need not include anything that is normally distributed (in
 either
source or binary form) with the major components (compiler, kernel, and so
 on)
of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to
 copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even
 though
third parties are not compelled to copy the source along with the object
 code.

4. You may not copy, modify, sublicense, or distribute the Program except as
expressly provided under this License. Any attempt otherwise to copy,
 modify,
sublicense or distribute the Program is void, and will automatically
 terminate
your rights under this License. However, parties who have received copies,
 or
rights, from you under this License will not have their licenses terminated
 so
long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed
 it.
However, nothing else grants you permission to modify or distribute the
 Program
or its derivative works. These actions are prohibited by law if you do not
accept this License. Therefore, by modifying or distributing the Program (or
any work based on the Program), you indicate your acceptance of this License
 to
do so, and all its terms and conditions for copying, distributing or
 modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
 Program),
the recipient automatically receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and
 conditions.
You may not impose any further restrictions on the recipients' exercise of
 the
rights granted herein. You are not responsible for enforcing compliance by
third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
 conditions
are imposed on you (whether by court order, agreement or otherwise) that
contradict the conditions of this License, they do not excuse you from the
conditions of this License. If you cannot distribute so as to satisfy
simultaneously your obligations under this License and any other pertinent
```

```
obligations, then as a consequence you may not distribute the Program at
 all.
For example, if a patent license would not permit royalty-free
 redistribution
of the Program by all those who receive copies directly or indirectly
 through
you, then the only way you could satisfy both it and this License would be
 to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply and
the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or
other property right claims or to contest validity of any such claims; this
section has the sole purpose of protecting the integrity of the free
 software
distribution system, which is implemented by public license practices. Many
people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of
 that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose
 that
choice.

This section is intended to make thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Program under this License may add an
 explicit
geographical distribution limitation excluding those countries, so that
distribution is permitted only in or among countries not thus excluded. In
such case, this License incorporates the limitation as if written in the
 body
of this License.

9. The Free Software Foundation may publish revised and/or new versions of
 the
General Public License from time to time. Such new versions will be similar
 in
spirit to the present version, but may differ in detail to address new
 problems
or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
 later
version", you have the option of following the terms and conditions either
 of
that version or of any later version published by the Free Software
 Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission. For software which is copyrighted by the Free Software
 Foundation,
```

```
write to the Free Software Foundation; we sometimes make exceptions for
 this.
Our decision will be guided by the two goals of preserving the free status
 of
all derivatives of our free software and of promoting the sharing and reuse
 of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
 THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE
 OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR
 DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH
 HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
 attach
them to the start of each source file to most effectively convey the
 exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your option)
any later version.

This program is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
more details.

You should have received a copy of the GNU General Public License along
```

```
with this program; if not, write to the Free Software Foundation, Inc., 59
Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when
 it
starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free
software, and you are welcome to redistribute it under certain conditions;
type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be
called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
 school,
if any, to sign a "copyright disclaimer" for the program, if necessary. Here
is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General Public
License instead of this License.


"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's
 header
the words "Oracle designates this particular file as subject to the
 "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this
 code."

Linking this library statically or dynamically with other modules is making
a combined work based on this library. Thus, the terms and conditions of
the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent modules,
and to copy and distribute the resulting executable under terms of your
choice, provided that you also meet, for each linked independent module,
the terms and conditions of the license of that module. An independent
module is a module which is not derived from or based on this library. If
you modify this library, you may extend this exception to your version of
the library, but you are not obligated to do so. If you do not wish to do
so, delete this exception statement from your version.
```

```
---------------------------------------------------------------------------

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

====================================

org.codehaus.mojo » animal-sniffer-annotations 1.17
COPYRIGHT and LICENSE:
The MIT License

Copyright (c) 2009 codehaus.org.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
========================================
```

Provider: Google / Component(s): Guava 28.1

```
google guava v28.1-jre

COPYRIGHT: Copyright (C) 2008 The Guava Authors

LICENSE: Apache 2.0

                              Apache License
```

```
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS



========================
Modules:
guava-bom
guava-gwt
guava-testlib
guava-tests
guava
refactorings
util
```

```
========================
4P Dependencies:

com.google.code.findbugs » jsr305 3.0.2
COPYRIGHT: (C) University of Maryland

LICENSE:
The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:

  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:

http://code.google.com/p/jsr-305/

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



---
com.google.errorprone » error_prone_annotations 2.3.2
COPYRIGHT: Copyright 2017 The Error Prone Authors.
LICENSE: Apache 2.0 https://github.com/google/error-prone/blob/v2.2.0/
COPYING


---
com.google.guava » failureaccess 1.0.1
(part of google guava 28.1-jre. same license and copyright)




---
com.google.guava » listenablefuture  9999.0-empty-...
(part of google guava 28.1-jre. same license and copyright)


---
```

```
com.google.j2objc » j2objc-annotations 1.3
COPYRIGHT: (C) Daniel Connelly and Google, Inc.
LICENSE: Apache 2.0 https://github.com/google/j2objc/blob/1.3/LICENSE



---
org.checkerframework » checker-qual 2.8.1
COPYRIGHT: Copyright 2004-present by the Checker Framework developers
LICENSE:

Most of the Checker Framework is licensed under the GNU General Public
License, version 2 (GPL2), with the classpath exception.  The text of this
license appears below.  This is the same license used for OpenJDK.

A few parts of the Checker Framework have more permissive licenses.

 * The annotations are licensed under the MIT License.  (The text of this
   license appears below.)  More specifically, all the parts of the Checker
   Framework that you might want to include with your own program use the
   MIT License.  This is the checker-qual.jar file and all the files that
   appear in it:  every file in a qual/ directory, plus utility files such
   as NullnessUtil.java, RegexUtil.java, SignednessUtil.java, etc.
   In addition, the cleanroom implementations of third-party annotations,
   which the Checker Framework recognizes as aliases for its own
   annotations, are licensed under the MIT License.

Some external libraries that are included with the Checker Framework have
different licenses.

 * javaparser is dual licensed under the LGPL or the Apache license -- you
   may use it under whichever one you want.  (The javaparser source code
   contains a file with the text of the GPL, but it is not clear why, since
   javaparser does not use the GPL.)  See file stubparser/LICENSE
   and the source code of all its files.

 * JUnit is licensed under the Common Public License v1.0 (see
   http://www.junit.org/license), with parts (Hamcrest) licensed under the
   BSD License (see http://hamcrest.org/JavaHamcrest/).

 * plume-lib is licensed under the MIT License.

The Checker Framework includes annotations for the JDK in directory
checker/jdk/, and for some other libraries.  Each annotated library uses
the same license as the unannotated version of the library.

==============================================================================

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
 share
and change it.  By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
```

```
software is free for all its users.  This General Public License applies to
most of the Free Software Foundation's software and to any other program
 whose
authors commit to using it.  (Some other Free Software Foundation software
 is
covered by the GNU Library General Public License instead.) You can apply it
 to
your programs, too.

When we speak of free software, we are referring to freedom, not price.  Our
General Public Licenses are designed to make sure that you have the freedom
 to
distribute copies of free software (and charge for this service if you
 wish),
that you receive source code or can get it if you want it, that you can
 change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to
 deny
you these rights or to ask you to surrender the rights.  These restrictions
translate to certain responsibilities for you if you distribute copies of
 the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or
 for
a fee, you must give the recipients all the rights that you have.  You must
make sure that they, too, receive or can get the source code.  And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also, for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software.  If
 the
software is modified by someone else and passed on, we want its recipients
 to
know that what they have is not the original, so that any problems
 introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents.  We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
 proprietary.
To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
placed by the copyright holder saying it may be distributed under the terms
 of
this General Public License.  The "Program", below, refers to any such
 program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
```

```
Program or a portion of it, either verbatim or with modifications and/or
translated into another language.  (Hereinafter, translation is included
without limitation in the term "modification".) Each licensee is addressed
 as
"you".

Activities other than copying, distribution and modification are not covered
 by
this License; they are outside its scope.  The act of running the Program is
not restricted, and the output from the Program is covered only if its
 contents
constitute a work based on the Program (independent of having been made by
running the Program).  Whether that is true depends on what the Program
 does.

1. You may copy and distribute verbatim copies of the Program's source code
 as
you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
 License
and to the absence of any warranty; and give any other recipients of the
Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you
 may
at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it,
 thus
forming a work based on the Program, and copy and distribute such
 modifications
or work under the terms of Section 1 above, provided that you also meet all
 of
these conditions:

    a) You must cause the modified files to carry prominent notices stating
    that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole
 or
    in part contains or is derived from the Program or any part thereof, to
 be
    licensed as a whole at no charge to all third parties under the terms of
    this License.

    c) If the modified program normally reads commands interactively when
 run,
    you must cause it, when started running for such interactive use in the
    most ordinary way, to print or display an announcement including an
    appropriate copyright notice and a notice that there is no warranty (or
    else, saying that you provide a warranty) and that users may
 redistribute
    the program under these conditions, and telling the user how to view a
 copy
    of this License.  (Exception: if the Program itself is interactive but
 does
    not normally print such an announcement, your work based on the Program
 is
    not required to print an announcement.)

These requirements apply to the modified work as a whole.  If identifiable
sections of that work are not derived from the Program, and can be
 reasonably
```

```
considered independent and separate works in themselves, then this License,
 and
its terms, do not apply to those sections when you distribute them as
 separate
works.  But when you distribute the same sections as part of a whole which
 is a
work based on the Program, the distribution of the whole must be on the
 terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise
 the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with
 the
Program (or with a work based on the Program) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of Sections 1
 and
2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable source
    code, which must be distributed under the terms of Sections 1 and 2
 above
    on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three years, to
    give any third party, for a charge no more than your cost of physically
    performing source distribution, a complete machine-readable copy of the
    corresponding source code, to be distributed under the terms of Sections
 1
    and 2 above on a medium customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code.  (This alternative is allowed only
    for noncommercial distribution and only if you received the program in
    object code or executable form with such an offer, in accord with
    Subsection b above.)

The source code for a work means the preferred form of the work for making
modifications to it.  For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and
 installation
of the executable.  However, as a special exception, the source code
distributed need not include anything that is normally distributed (in
 either
source or binary form) with the major components (compiler, kernel, and so
 on)
of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to
 copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even
 though
```

```
third parties are not compelled to copy the source along with the object
 code.

4. You may not copy, modify, sublicense, or distribute the Program except as
expressly provided under this License.  Any attempt otherwise to copy,
 modify,
sublicense or distribute the Program is void, and will automatically
 terminate
your rights under this License.  However, parties who have received copies,
 or
rights, from you under this License will not have their licenses terminated
 so
long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed
 it.
However, nothing else grants you permission to modify or distribute the
 Program
or its derivative works.  These actions are prohibited by law if you do not
accept this License.  Therefore, by modifying or distributing the Program
 (or
any work based on the Program), you indicate your acceptance of this License
 to
do so, and all its terms and conditions for copying, distributing or
 modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
 Program),
the recipient automatically receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and
 conditions.
You may not impose any further restrictions on the recipients' exercise of
 the
rights granted herein.  You are not responsible for enforcing compliance by
third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
 conditions
are imposed on you (whether by court order, agreement or otherwise) that
contradict the conditions of this License, they do not excuse you from the
conditions of this License.  If you cannot distribute so as to satisfy
simultaneously your obligations under this License and any other pertinent
obligations, then as a consequence you may not distribute the Program at
 all.
For example, if a patent license would not permit royalty-free
 redistribution
of the Program by all those who receive copies directly or indirectly
 through
you, then the only way you could satisfy both it and this License would be
 to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply and
the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or
other property right claims or to contest validity of any such claims; this
section has the sole purpose of protecting the integrity of the free
 software
distribution system, which is implemented by public license practices.  Many
```

```
people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of
 that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose
 that
choice.

This section is intended to make thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Program under this License may add an
 explicit
geographical distribution limitation excluding those countries, so that
distribution is permitted only in or among countries not thus excluded.  In
such case, this License incorporates the limitation as if written in the
 body
of this License.

9. The Free Software Foundation may publish revised and/or new versions of
 the
General Public License from time to time.  Such new versions will be similar
 in
spirit to the present version, but may differ in detail to address new
 problems
or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
 later
version", you have the option of following the terms and conditions either
 of
that version or of any later version published by the Free Software
 Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission.  For software which is copyrighted by the Free Software
 Foundation,
write to the Free Software Foundation; we sometimes make exceptions for
 this.
Our decision will be guided by the two goals of preserving the free status
 of
all derivatives of our free software and of promoting the sharing and reuse
 of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
 OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
```

```
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
 THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE
 OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR
 DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH
 HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program.  It is safest to
 attach
them to the start of each source file to most effectively convey the
 exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.

    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify it
    under the terms of the GNU General Public License as published by the
 Free
    Software Foundation; either version 2 of the License, or (at your
 option)
    any later version.

    This program is distributed in the hope that it will be useful, but
 WITHOUT
    ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
    FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 for
    more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
 59
    Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when
 it
starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author Gnomovision
 comes
    with ABSOLUTELY NO WARRANTY; for details type 'show w'.  This is free
    software, and you are welcome to redistribute it under certain
 conditions;
    type 'show c' for details.
```

```
The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may be
called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
 school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
 Here
is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    'Gnomovision' (which makes passes at compilers) written by James Hacker.

    signature of Ty Coon, 1 April 1989

    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General Public
License instead of this License.


"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's
 header
the words "Oracle designates this particular file as subject to the
 "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this
 code."

    Linking this library statically or dynamically with other modules is
 making
    a combined work based on this library.  Thus, the terms and conditions
 of
    the GNU General Public License cover the whole combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
 modules,
    and to copy and distribute the resulting executable under terms of your
    choice, provided that you also meet, for each linked independent module,
    the terms and conditions of the license of that module.  An independent
    module is a module which is not derived from or based on this library.
 If
    you modify this library, you may extend this exception to your version
 of
    the library, but you are not obligated to do so.  If you do not wish to
 do
    so, delete this exception statement from your version.

===========================================================================

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

==============================================================================




---
org.codehaus.mojo » animal-sniffer-annotations 1.18
COPYRIGHT and LICENSE:
The MIT License

  Copyright (c) 2009 codehaus.org.

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
  THE SOFTWARE.
```

Provider: Google / Component(s): Guava 30.1

```
************************************************************
********* Copied from LT Public License & Copyright Notices *********

--- Guava 30.1
Copyright (C) 2019 The Guava Authors
   Licensed under the Apache License, Version 2.0 (the "License");
```

```
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at
      http://www.apache.org/licenses/LICENSE-2.0
  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
  Apache License Version 2.0
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
  1. Definitions.
     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.
     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.
     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.
     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.
     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.
     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.
     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."
     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
  2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
```

```
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
=====================================================================
+--- 4th party: com.google.guava:failureaccess:1.0.1
Copyright (C) 2018 The Guava Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
   < Apache License Version 2.0>
=====================================================================
+--- 4th party: com.google.guava:listenablefuture:9999.0-empty-to-avoid-
conflict-with-guava

Copyright (C) 2018 The Guava Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
   < Apache License Version 2.0>
=====================================================================
+--- 4th party: com.google.code.findbugs:jsr305:3.0.2
The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:
  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:
  http://code.google.com/p/jsr-305/
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
 contributors may
be used to endorse or promote products derived from this software without
 specific
prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
   ===================================================================
+--- 4th party: jcip-annotations
Copyright (c) 2005, Brian Goetz and Tim Peierls
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
 contributors may
be used to endorse or promote products derived from this software without
 specific
prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
   ======================================================================
+--- 4th party: com.google.errorprone:error_prone_annotations:2.3.2
Copyright 2015 The Error Prone Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

  < Apache License Version 2.0>

=====================================================================
+--- 4th party: com.google.j2objc:j2objc-annotations:1.3
Google Inc.
Daniel Connelly
Copyright 2012 Google Inc. All Rights Reserved.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>
==========================================================================
+--- 4th party: org.checkerframework:checker-qual:2.8.1
Copyright 2004-present by the Checker Framework developers
```

```
MIT License:
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==============================================================================
+--- 4th party: org.codehaus.mojo:animal-sniffer-annotations:1.17
Copyright (c) 2009 codehaus.org.
<MIT License>
==============================================================================
```

Provider: Google / Component(s): Guava 31.1

```
Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


   Apache License Version 2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
```

```
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
```

```
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
```

```
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=====================================================================

+--- 4th party: com.google.guava:failureaccess

Copyright (C) 2018 The Guava Authors
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>
=====================================================================

+--- 4th party: com.google.guava:listenablefuture

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>
=====================================================================

+--- 4th party: com.google.code.findbugs:jsr305
Copyright: JSR305 expert group
License: BSD 3-Clause

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
```

```
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

==  jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

   ==========================================================================
+--- 4th party: com.google.errorprone:error_prone_annotations

Copyright 2015 The Error Prone Authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

  < Apache License Version 2.0>

+--- 4th party: com.google.j2objc:j2objc-annotations

Google Inc.
Daniel Connelly

Copyright 2012 Google Inc. All Rights Reserved.

   Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>

==============================================================================

+--- 4th party: org.checkerframework:checker-qual

Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

==============================================================================
```

Provider: Google / Component(s): Guava 32.1.1

```
========== COPYRIGHT NOTICE ===========

Copyright (C) 2009-2021 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

==============================================================================
Licenses for included components:

org.ow2.asm:asm
org.ow2.asm:asm-analysis
org.ow2.asm:asm-commons
org.ow2.asm:asm-tree
org.ow2.asm:asm-util
ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------------------------
rzwitserloot/com.zwitserloot.cmdreader

 Copyright Â© 2010 Reinier Zwitserloot.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.

--------------------------------------------------------------------------------

projectlombok/lombok.patcher

 Copyright (C) 2009-2021 The Project Lombok Authors.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.

--------------------------------------------------------------------------------

========== COPYRIGHT NOTICE END ===========
```

Provider: Google / Component(s): Guice 4.2.2

```
google guice 4.2
COPYRIGHT: Copyright (C) 2006-Present Google Inc.
LICENSE: Apache 2.0 https://github.com/google/guice/blob/4.2/COPYING

                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
```

```
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
```

```
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
```

```
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS



---------------
4P Dependencies:


aopalliance 1.0
COPYRIGHT and LICENSE: All the source code provided by AOP Alliance is
 Public Domain.

---
com.google.guava 23.6-android (upgraded to 24.1.1)
COPYRIGHT: Copyright (C) 2008 The Guava Authors
LICENSE: Apache 2.0
                            Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Google / Component(s): guice 7.0.0

```
------------------------------ Top-Level License
 -------------------------------


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

---------------------------------- Copyright
 -----------------------------------
(no copyrights found)

-------------------------- Fourth Party Dependencies
 ---------------------------

----------------------------------- Licenses
 -----------------------------------
```

```
-  Apache-2.0
-  AOP Public
-  BSD-3-Clause

---------------------------------- (separator)
 ----------------------------------

== Dependency
aopalliance » aopalliance 1.0

== License Type
AOP Public/GNU LESSER GENERAL PUBLIC LICENSE

== Copyright
Copyright © 1993, 1994, 1995, 1996, Nikos Drakos, Computer Based Learning
 Unit, University of Leeds.
Copyright © 1997, 1998, 1999, Ross Moore, Mathematics Department, Macquarie
 University, Sydney.

---------------------------------- (separator)
 ----------------------------------

== Dependency
com.google.errorprone » error_prone_annotations (optional) 2.18.0, updated
 2.23.0

== License Type
Apache-2.0

== Copyright
 Copyright 2014 The Error Prone Authors.
# This is the list of Error Prone authors for copyright purposes.
#
# This does not necessarily list everyone who has contributed code, since in
# some cases, their employer may be the copyright holder. To see the full
 list
# of contributors, see the revision history in source control.
Google Inc.
Two Sigma Open Source
Picnic Technologies


---------------------------------- (separator)
 ----------------------------------

== Dependency
com.google.guava » guava2 vulnerabilities 31.0.1-jre 32.1.3-jre

== License Type
Apache-2.0

== Copyright
 Copyright (C) 2009 The Guava Authors



---------------------------------- (separator)
 ----------------------------------

== Dependency
jakarta.inject » jakarta.inject-api 2.0.1

== License Type
Apache-2.0
```

```
== Copyright
Copyright (C) 2009 The JSR-330 Expert Group

== Notices
Notices for Eclipse Jakarta Dependency Injection
This content is produced and maintained by the Eclipse Jakarta Dependency
 Injection project.

Project home: https://projects.eclipse.org/projects/cdi.batch
Trademarks
Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Apache License, Version 2.0 which is available at https://
www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api https://github.com/eclipse-
ee4j/injection-spec https://github.com/eclipse-ee4j/injection-tck

Third-party Content
This project leverages the following third party content.

None

Cryptography
None


---------------------------------- (separator)
 -----------------------------------

== Dependency
org.ow2.asm » asm (optional) 9.5 9.6

== License Type
BSD 3-clause

== Copyright
Copyright (c) 2000-2011 INRIA, France Telecom


---------------------------------- (separator)
 -----------------------------------

The BSD 3-Clause License The following is a BSD 3-Clause ("BSD New" or "BSD
 Simplified") license template. To generate your own license, change the
 values of OWNER, ORGANIZATION and YEAR from their original values as given
 here, and substitute your own.

Note: You may omit clause 3 and still be OSD-conformant. Despite its
 colloquial name "BSD New", this is not the newest version of the BSD
 license; it was followed by the even newer BSD-2-Clause version, sometimes
```

```
 known as the "Simplified BSD License". On January 9th, 2008 the OSI Board
 approved BSD-2-Clause, which is used by FreeBSD and others. It omits the
 final "no-endorsement" clause and is thus roughly equivalent to the MIT
 License.

Historical Background: The original license used on BSD Unix had four
 clauses. The advertising clause (the third of four clauses) required you
 to acknowledge use of U.C. Berkeley code in your advertising of any product
 using that code. It was officially rescinded by the Director of the Office
 of Technology Licensing of the University of California on July 22nd,
 1999. He states that clause 3 is "hereby deleted in its entirety." The four
 clause license has not been approved by OSI. The license below does not
 contain the advertising clause.

This prelude is not part of the license.

OWNER = Regents of the University of California

ORGANIZATION = University of California, Berkeley

YEAR = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT
 HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND
 CONTRIBUTORS".

License template
Copyright (c) $YEAR $OWNER, All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------


  GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.
```

```
[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.
```

```
  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)
```

```
  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
```

```
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
```

```
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
```

```
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
```

```
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

       NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
```

```
DAMAGES.

       END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!
```

Provider: Google / Component(s): guice-assistedinject 4.2.0

```
http://www.apache.org/licenses/LICENSE-2.0

Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
```

```
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
```

```
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Google / Component(s): java-service-control 1.35.0

```
*************************************************************
***************** Copied from BA Public License *****************

-----------------------------Top Level
 Copyrights-------------------------------
Copyright 2020 Google LLC
--------------------------------Top Level
 License---------------------------------
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
```

```
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
--------------------------------4th Party
 Dependencies--------------------------------
-------- Dependency 1
io.grpc:grpc-api
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
```

```
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 2
com.google.code.findbugs:jsr305
-------- Copyrights
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.
-------- Notices
== jcip-annotations relicensed to Oracle under BSD 3-clause license
Copyright (c) 2005, Brian Goetz and Tim Peierls
-------- Dependencies Summary
com.google.code.findbugs:jsr305
-------- License used by Dependencies
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
```

```
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
== jcip-annotations relicensed to Oracle under BSD 3-clause license
Copyright (c) 2005, Brian Goetz and Tim Peierls
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
-------- Dependency 3
io.grpc:grpc-stub
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
```

```
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 4
io.grpc:grpc-protobuf
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
```

```
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 5
io.grpc:grpc-protobuf-lite
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
```

```
-------- Dependency 6
com.google.api:api-common
-------- Copyrights
Copyright 2016 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 7
com.google.auto.value:auto-value-annotations
-------- Copyrights
Copyright 2013 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 8
javax.annotation:javax.annotation-api
------- Copyrights
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1
1. Definitions.
    1.1. "Contributor" means each individual or entity that creates or
    contributes to the creation of Modifications.
    1.2. "Contributor Version" means the combination of the Original
    Software, prior Modifications used by a Contributor (if any), and
    the Modifications made by that particular Contributor.
    1.3. "Covered Software" means (a) the Original Software, or (b)
    Modifications, or (c) the combination of files containing Original
    Software with files containing Modifications, in each case including
    portions thereof.
    1.4. "Executable" means the Covered Software in any form other than
    Source Code.
    1.5. "Initial Developer" means the individual or entity that first
    makes Original Software available under this License.
    1.6. "Larger Work" means a work which combines Covered Software or
    portions thereof with code not governed by the terms of this License.
    1.7. "License" means this document.
    1.8. "Licensable" means having the right to grant, to the maximum
    extent possible, whether at the time of the initial grant or
    subsequently acquired, any and all of the rights conveyed herein.
    1.9. "Modifications" means the Source Code and Executable form of
    any of the following:
    A. Any file that results from an addition to, deletion from or
    modification of the contents of a file containing Original Software
    or previous Modifications;
    B. Any new file that contains any part of the Original Software or
    previous Modification; or
    C. Any new file that is contributed or otherwise made available
```

```
    under the terms of this License.
    1.10. "Original Software" means the Source Code and Executable form
    of computer software code that is originally released under this
    License.
    1.11. "Patent Claims" means any patent claim(s), now owned or
    hereafter acquired, including without limitation, method, process,
    and apparatus claims, in any patent Licensable by grantor.
    1.12. "Source Code" means (a) the common form of computer software
    code in which modifications are made and (b) associated
    documentation included in or with such code.
    1.13. "You" (or "Your") means an individual or a legal entity
    exercising rights under, and complying with all of the terms of,
    this License. For legal entities, "You" includes any entity which
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.
2. License Grants.
    2.1. The Initial Developer Grant.
    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, the Initial Developer
    hereby grants You a world-wide, royalty-free, non-exclusive license:
    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Initial Developer, to use, reproduce,
    modify, display, perform, sublicense and distribute the Original
    Software (or portions thereof), with or without Modifications,
    and/or as part of a Larger Work; and
    (b) under Patent Claims infringed by the making, using or selling of
    Original Software, to make, have made, use, practice, sell, and
    offer for sale, and/or otherwise dispose of the Original Software
    (or portions thereof).
    (c) The licenses granted in Sections 2.1(a) and (b) are effective on
    the date Initial Developer first distributes or otherwise makes the
    Original Software available to a third party under the terms of this
    License.
    (d) Notwithstanding Section 2.1(b) above, no patent license is
    granted: (1) for code that You delete from the Original Software, or
    (2) for infringements caused by: (i) the modification of the
    Original Software, or (ii) the combination of the Original Software
    with other software or devices.
    2.2. Contributor Grant.
    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, each Contributor hereby
    grants You a world-wide, royalty-free, non-exclusive license:
    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Contributor to use, reproduce, modify,
    display, perform, sublicense and distribute the Modifications
    created by such Contributor (or portions thereof), either on an
    unmodified basis, with other Modifications, as Covered Software
    and/or as part of a Larger Work; and
    (b) under Patent Claims infringed by the making, using, or selling
    of Modifications made by that Contributor either alone and/or in
    combination with its Contributor Version (or portions of such
    combination), to make, use, sell, offer for sale, have made, and/or
    otherwise dispose of: (1) Modifications made by that Contributor (or
    portions thereof); and (2) the combination of Modifications made by
    that Contributor with its Contributor Version (or portions of such
    combination).
    (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
    on the date Contributor first distributes or otherwise makes the
    Modifications available to a third party.
    (d) Notwithstanding Section 2.2(b) above, no patent license is
```

```
    granted: (1) for any code that Contributor has deleted from the
    Contributor Version; (2) for infringements caused by: (i) third
    party modifications of Contributor Version, or (ii) the combination
    of Modifications made by that Contributor with other software
    (except as part of the Contributor Version) or other devices; or (3)
    under Patent Claims infringed by Covered Software in the absence of
    Modifications made by that Contributor.
3. Distribution Obligations.
    3.1. Availability of Source Code.
    Any Covered Software that You distribute or otherwise make available
    in Executable form must also be made available in Source Code form
    and that Source Code form must be distributed only under the terms
    of this License. You must include a copy of this License with every
    copy of the Source Code form of the Covered Software You distribute
    or otherwise make available. You must inform recipients of any such
    Covered Software in Executable form as to how they can obtain such
    Covered Software in Source Code form in a reasonable manner on or
    through a medium customarily used for software exchange.
    3.2. Modifications.
    The Modifications that You create or to which You contribute are
    governed by the terms of this License. You represent that You
    believe Your Modifications are Your original creation(s) and/or You
    have sufficient rights to grant the rights conveyed by this License.
    3.3. Required Notices.
    You must include a notice in each of Your Modifications that
    identifies You as the Contributor of the Modification. You may not
    remove or alter any copyright, patent or trademark notices contained
    within the Covered Software, or any notices of licensing or any
    descriptive text giving attribution to any Contributor or the
    Initial Developer.
    3.4. Application of Additional Terms.
    You may not offer or impose any terms on any Covered Software in
    Source Code form that alters or restricts the applicable version of
    this License or the recipients' rights hereunder. You may choose to
    offer, and to charge a fee for, warranty, support, indemnity or
    liability obligations to one or more recipients of Covered Software.
    However, you may do so only on Your own behalf, and not on behalf of
    the Initial Developer or any Contributor. You must make it
    absolutely clear that any such warranty, support, indemnity or
    liability obligation is offered by You alone, and You hereby agree
    to indemnify the Initial Developer and every Contributor for any
    liability incurred by the Initial Developer or such Contributor as a
    result of warranty, support, indemnity or liability terms You offer.
    3.5. Distribution of Executable Versions.
    You may distribute the Executable form of the Covered Software under
    the terms of this License or under the terms of a license of Your
    choice, which may contain terms different from this License,
    provided that You are in compliance with the terms of this License
    and that the license for the Executable form does not attempt to
    limit or alter the recipient's rights in the Source Code form from
    the rights set forth in this License. If You distribute the Covered
    Software in Executable form under a different license, You must make
    it absolutely clear that any terms which differ from this License
    are offered by You alone, not by the Initial Developer or
    Contributor. You hereby agree to indemnify the Initial Developer and
    every Contributor for any liability incurred by the Initial
    Developer or such Contributor as a result of any such terms You offer.
    3.6. Larger Works.
    You may create a Larger Work by combining Covered Software with
    other code not governed by the terms of this License and distribute
    the Larger Work as a single product. In such a case, You must make
    sure the requirements of this License are fulfilled for the Covered
    Software.
4. Versions of the License.
```

```
    4.1. New Versions.
    Oracle is the initial license steward and may publish revised and/or
    new versions of this License from time to time. Each version will be
    given a distinguishing version number. Except as provided in Section
    4.3, no one other than the license steward has the right to modify
    this License.
    4.2. Effect of New Versions.
    You may always continue to use, distribute or otherwise make the
    Covered Software available under the terms of the version of the
    License under which You originally received the Covered Software. If
    the Initial Developer includes a notice in the Original Software
    prohibiting it from being distributed or otherwise made available
    under any subsequent version of the License, You must distribute and
    make the Covered Software available under the terms of the version
    of the License under which You originally received the Covered
    Software. Otherwise, You may also choose to use, distribute or
    otherwise make the Covered Software available under the terms of any
    subsequent version of the License published by the license steward.
    4.3. Modified Versions.
    When You are an Initial Developer and You want to create a new
    license for Your Original Software, You may create and use a
    modified version of this License if You: (a) rename the license and
    remove any references to the name of the license steward (except to
    note that the license differs from this License); and (b) otherwise
    make it clear that the license contains terms which differ from this
    License.
5. DISCLAIMER OF WARRANTY.
    COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
    WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
    INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
    IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
    NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
    THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
    DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
    OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
    REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
    ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
    AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.
6. TERMINATION.
    6.1. This License and the rights granted hereunder will terminate
    automatically if You fail to comply with terms herein and fail to
    cure such breach within 30 days of becoming aware of the breach.
    Provisions which, by their nature, must remain in effect beyond the
    termination of this License shall survive.
    6.2. If You assert a patent infringement claim (excluding
    declaratory judgment actions) against Initial Developer or a
    Contributor (the Initial Developer or Contributor against whom You
    assert such claim is referred to as "Participant") alleging that the
    Participant Software (meaning the Contributor Version where the
    Participant is a Contributor or the Original Software where the
    Participant is the Initial Developer) directly or indirectly
    infringes any patent, then any and all rights granted directly or
    indirectly to You by such Participant, the Initial Developer (if the
    Initial Developer is not the Participant) and all Contributors under
    Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
    from Participant terminate prospectively and automatically at the
    expiration of such 60 day notice period, unless if within such 60
    day period You withdraw Your claim with respect to the Participant
    Software against such Participant either unilaterally or pursuant to
    a written agreement with Participant.
    6.3. If You assert a patent infringement claim against Participant
    alleging that the Participant Software directly or indirectly
    infringes any patent where such claim is resolved (such as by
    license or settlement) prior to the initiation of patent
```

```
    infringement litigation, then the reasonable value of the licenses
    granted by such Participant under Sections 2.1 or 2.2 shall be taken
    into account in determining the amount or value of any payment or
    license.
    6.4. In the event of termination under Sections 6.1 or 6.2 above,
    all end user licenses that have been validly granted by You or any
    distributor hereunder prior to termination (excluding licenses
    granted to You by any distributor) shall survive termination.
7. LIMITATION OF LIABILITY.
    UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
    (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
    INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
    COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
    TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
    CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
    LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
    FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
    LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
    POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
    APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
    PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
    LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
    LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
    AND LIMITATION MAY NOT APPLY TO YOU.
8. U.S. GOVERNMENT END USERS.
    The Covered Software is a "commercial item," as that term is defined
    in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
    software" (as that term is defined at 48 C.F.R. §
    252.227-7014(a)(1)) and "commercial computer software documentation"
    as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
    with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
    (June 1995), all U.S. Government End Users acquire Covered Software
    with only those rights set forth herein. This U.S. Government Rights
    clause is in lieu of, and supersedes, any other FAR, DFAR, or other
    clause or provision that addresses Government rights in computer
    software under this License.
9. MISCELLANEOUS.
    This License represents the complete agreement concerning subject
    matter hereof. If any provision of this License is held to be
    unenforceable, such provision shall be reformed only to the extent
    necessary to make it enforceable. This License shall be governed by
    the law of the jurisdiction specified in a notice contained within
    the Original Software (except to the extent applicable law, if any,
    provides otherwise), excluding such jurisdiction's conflict-of-law
    provisions. Any litigation relating to this License shall be subject
    to the jurisdiction of the courts located in the jurisdiction and
    venue specified in a notice contained within the Original Software,
    with the losing party responsible for costs, including, without
    limitation, court costs and reasonable attorneys' fees and expenses.
    The application of the United Nations Convention on Contracts for
    the International Sale of Goods is expressly excluded. Any law or
    regulation which provides that the language of a contract shall be
    construed against the drafter shall not apply to this License. You
    agree that You alone are responsible for compliance with the United
    States export administration regulations (and the export control
    laws and regulation of any other countries) when You use, distribute
    or otherwise make available any Covered Software.
10. RESPONSIBILITY FOR CLAIMS.
    As between Initial Developer and the Contributors, each party is
    responsible for claims and damages arising, directly or indirectly,
    out of its utilization of rights under this License and You agree to
    work with Initial Developer and Contributors to distribute such
    responsibility on an equitable basis. Nothing herein is intended or
    shall be deemed to constitute any admission of liability.
```

```
---------------------------------------------------------------------------
NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)
The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.
  The GNU General Public License (GPL) Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble
The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.
We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and
modification follow.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
```

```
"modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:
    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.
    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.
    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)
These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.
In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.
3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:
    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,
    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,
```

```
    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)
The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.
If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.
4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.
5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.
6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.
If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
```

```
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.
10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.
NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>
    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.
    This program is distributed in the hope that it will be useful, but
```

```
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.
    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA
Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:
    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.
The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:
    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.
    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice
This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.
#
Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."
You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
licensed to you under their original licenses.
Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.
Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
```

```
subsequently be redistributed and/or involve the use of third party
software.
CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.
As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.
-------- Dependency 9
com.google.api.grpc:proto-google-common-protos
-------- Copyrights
  Copyright 2020 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 10
com.google.api.grpc:proto-google-cloud-service-control-v2
-------- Copyrights
Copyright 2020 Google LLC
-------- Notices
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific
-------- Dependency 11
com.google.api.grpc:proto-google-cloud-service-control-v1
-------- Copyrights
Copyright 2020 Google LLC
-------- Notices
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific
```

```
-------- Dependency 12
com.google.guava:guava
-------- Copyrights
 * Copyright (C) 2005 The Guava Authors
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
-------- Dependency 13
com.google.guava:failureaccess
-------- Copyrights
 * Copyright (C) 2018 The Guava Authors
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
-------- Dependency 14
com.google.guava:listenablefuture
-------- Copyrights
 * Copyright (C) 2007 The Guava Authors
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
-------- Dependency 15
org.checkerframework:checker-qual
-------- Copyrights
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers
-------- Notices
MIT License:
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
-------- Dependency 16
com.google.j2objc:j2objc-annotations
-------- Copyrights
 * Copyright 2012 Google Inc. All Rights Reserved.
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
-------- Dependency 17
com.google.api:gax
-------- Copyrights
Copyright 2016 Google LL
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 18
com.google.auth:google-auth-library-credentials
-------- Copyrights
Copyright 2014, Google Inc. All rights reserved.
-------- Notices
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------- Dependency 19
io.opencensus:opencensus-api
-------- Copyrights
 Copyright 2017, OpenCensus Authors
-------- Notices

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 20
io.grpc:grpc-context
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
```

```
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 21
com.google.auth:google-auth-library-oauth2-http
-------- Copyrights
Copyright 2014, Google Inc. All rights reserved.
-------- Notices
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------- Dependency 22
com.google.api:gax-grpc
-------- Copyrights
Copyright 2016 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 23
io.grpc:grpc-inprocess
-------- Copyrights
```

```
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 24
io.grpc:grpc-core
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
```

```
limitations under the License.
------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 25
com.google.android:annotations
-------- Copyrights
  Copyright (C) 2013 The Android Open Source Project
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 26
org.codehaus.mojo:animal-sniffer-annotations
-------- Copyrights
Copyright (c) 2009 codehaus.org.
-------- Notices
Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
-------- Dependency 27
io.grpc:grpc-util
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
```

```
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 28
com.google.errorprone:error_prone_annotations
-------- Copyrights
  Copyright 2013 The Error Prone Authors.
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 29
io.grpc:grpc-alts
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
```

```
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 30
io.grpc:grpc-context
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
```

```
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 31
io.grpc:grpc-grpclb
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 32
org.conscrypt:conscrypt-openjdk-uber
-------- Copyrights
Copyright 2016 The Android Open Source Project
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
     http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of `Netty`, a configurable network
stack in Java, which can be obtained at:
  * LICENSE:
    * licenses/LICENSE.netty.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://netty.io/
This product contains a modified portion of `Apache Harmony`, modular Java
 runtime,
which can be obtained at:
  * LICENSE:
    * licenses/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://harmony.apache.org/
-------- Dependency 33
io.grpc:grpc-auth
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
```

```
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 34
io.grpc:grpc-netty-shaded
-------- Copyrights
Copyright 2016 The Netty Project
-------- Notices
The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
  http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.
--------------------------------------------------------------------------------
This product contains a forked and modified version of Tomcat Native
  * LICENSE:
    * license/LICENSE.tomcat-native.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://tomcat.apache.org/native-doc/
    * https://svn.apache.org/repos/asf/tomcat/native/
This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.
  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper
This product contains small piece of code to support AIX, taken from netbsd.
  * LICENSE:
    * license/LICENSE.aix-netbsd.txt (OpenSSL License)
  * HOMEPAGE:
    * https://ftp.netbsd.org/pub/NetBSD/NetBSD-current/src/crypto/external/
bsd/openssl/dist
This product contains code from boringssl.
  * LICENSE (Combination ISC and OpenSSL license)
    * license/LICENSE.boringssl.txt (Combination ISC and OpenSSL license)
  * HOMEPAGE:
    * https://boringssl.googlesource.com/boringssl/
-------- Dependency 35
io.grpc:grpc-googleapis
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-----------------------------------------------------------------------
```

```
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 36
io.grpc:grpc-xds
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
```

```
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 37
io.opencensus:opencensus-proto
-------- Copyrights
  Copyright 2017, OpenCensus Authors
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 38
io.grpc:grpc-services
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
```

```
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
------- Dependency 39
com.google.re2j:re2j
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
-------- Notices
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
     distribution.
   * Neither the name of Google Inc. nor the names of its contributors
     may be used to endorse or promote products derived from this
     software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------- Dependency 40
```

```
com.google.api:gax-httpjson
-------- Copyrights
Copyright 2016 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 41
com.google.code.gson:gson
-------- Copyrights
Copyright 2008 Google Inc.
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-------- Dependency 42
com.google.http-client:google-http-client
-------- Copyrights
 * Copyright (c) 2010 Google Inc.
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
-------- Dependency 43
org.apache.httpcomponents:httpclient
-------- Copyrights
Copyright 1999-2022 The Apache Software Foundation
-------- Notices
Apache HttpClient
Copyright 1999-2022 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
-------- Dependency 44
commons-logging:commons-logging
-------- Copyrights
Copyright 2003-2014 The Apache Software Foundation
-------- Notices
Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation
This product includes software developed at
```

```
The Apache Software Foundation (http://www.apache.org/).
-------- Dependency 45
commons-codec:commons-codec
-------- Copyrights
Copyright 2002-2024 The Apache Software Foundation
-------- Notices
Apache Commons Codec
Copyright 2002-2024 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
-------- Dependency 46
org.apache.httpcomponents:httpcore
-------- Copyrights
Copyright 2005-2022 The Apache Software Foundation
-------- Notices
Apache HttpCore
Copyright 2005-2022 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
-------- Dependency 47
io.opencensus:opencensus-contrib-http-util
-------- Copyrights
  Copyright 2017, OpenCensus Authors
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 48
com.google.http-client:google-http-client-gson
-------- Copyrights
 * Copyright (c) 2011 Google Inc.
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
-------- Dependency 49
com.google.protobuf:protobuf-java-util
-------- Copyrights
Copyright 2008 Google Inc.  All rights reserved.
-------- Notices
BSD 3-Clause
Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
-------- Dependency 50
```

```
io.perfmark:perfmark-api
-------- Copyrights
Copyright 2019 Google LLC
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'Catapult', an open source
Trace Event viewer for Chome, Linux, and Android applications, which can
be obtained at:
  * LICENSE:
    * traceviewer/src/main/resources/io/perfmark/traceviewer/third_party/
catapult/LICENSE (New BSD License)
  * HOMEPAGE:
    * https://github.com/catapult-project/catapult
This product contains a modified portion of 'Polymer', a library for Web
Components, which can be obtained at:
  * LICENSE:
    * traceviewer/src/main/resources/io/perfmark/traceviewer/third_party/
polymer/LICENSE (New BSD License)
  * HOMEPAGE:
    * https://github.com/Polymer/polymer
This product contains a modified portion of 'ASM', an open source
Java Bytecode library, which can be obtained at:
  * LICENSE:
    * agent/src/main/resources/io/perfmark/agent/third_party/asm/LICENSE
 (BSD style License)
  * HOMEPAGE:
    * https://asm.ow2.io/
-------- Dependency 51
org.threeten:threetenbp
-------- Copyrights
Copyright (c) 2007-present, Stephen Colebourne & Michael Nascimento Santos.
All rights reserved.
-------- Notices
BSD 3-Clause
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of JSR-310 nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
```

```
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Google / Component(s): libphonenumber 8.12.20

```
1. Include prominent notice with modified files stating that such files were
 modified.

2. Development must ensure that the following licenses and notices are
 included in the documentation of the
Oracle product that includes the code:

libphonenumber 8.9.16

Copyright (C) 2011 The Libphonenumber Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


----------------------------------------------------------------------
This project contains a small number of files derived from the Chromium
project.  They contain copyright notices such as this:

// Copyright (c) 2010 The Chromium Authors. All rights reserved.
// Use of this source code is governed by a BSD-style license that can be
// found in the LICENSE file.

Here is the full text of the LICENSE file from the Chromium project:

// Copyright 2014 The Chromium Authors. All rights reserved.
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
// met:
//
// * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
// * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following disclaimer
// in the documentation and/or other materials provided with the
// distribution.
// * Neither the name of Google Inc. nor the names of its
// contributors may be used to endorse or promote products derived from
// this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

3. Include the following License ONCE in the documentation even if there are
 multiple products licensed under the license:
The following applies to all products licensed under the Apache 2.0 License:

You may not use the identified files except in compliance with the Apache
 License, Version 2.0 (the "License.")

You may obtain a copy of the License at http://www.apache.org/licenses/
LICENSE-2.0.  A copy of the license is also
reproduced below.

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed
on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 express or implied.

See the License for the specific language governing permissions and
 limitations under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
```

Provider: Google / Component(s): libyuv eb6e7bb

```
LICENSE
Copyright 2011 The LibYuv Project Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

  * Neither the name of Google nor the names of its contributors may
    be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----
PATENTS
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the LibYuv code package.

Google hereby grants to you a perpetual, worldwide, non-exclusive,
no-charge, irrevocable (except as stated in this section) patent
license to make, have made, use, offer to sell, sell, import,
transfer, and otherwise run, modify and propagate the contents of this
implementation of the LibYuv code package, where such license applies
only to those patent claims, both currently owned by Google and
acquired in the future, licensable by Google that are necessarily
infringed by this implementation of the LibYuv code package. This
grant does not include claims that would be infringed only as a
consequence of further modification of this implementation. If you or
your agent or exclusive licensee institute or order or agree to the
```

```
institution of patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that this
implementation of the LibYuv code package or any code incorporated
within this implementation of the LibYuv code package constitutes
direct or contributory patent infringement, or inducement of patent
infringement, then any patent rights granted to you under this License
for this implementation of the LibYuv code package shall terminate as
of the date such litigation is filed.
----
COPYRIGHTS (from source files)
Copyright 2011 The LibYuv Project Authors. All rights reserved.
Copyright 2012 The LibYuv Project Authors. All rights reserved.
Copyright 2013 The LibYuv Project Authors. All rights reserved.
Copyright 2014 The LibYuv Project Authors. All rights reserved.
Copyright 2015 The LibYuv Project Authors. All rights reserved.
Copyright 2016 The LibYuv Project Authors. All rights reserved.
Copyright 2017 The LibYuv Project Authors. All rights reserved.
Copyright (c) 2012 The LibYuv Project Authors. All rights reserved.
Copyright (c) 2016 The LibYuv project authors. All Rights Reserved.
Copyright (c) 2017 The WebRTC project authors. All Rights Reserved.
Copyright (c) 2017 The LibYuv Project Authors. All rights reserved.

Use of this source code is governed by a BSD-style license
that can be found in the LICENSE file in the root of the source
tree. An additional intellectual property rights grant can be found
in the file PATENTS. All contributing project authors may
be found in the AUTHORS file in the root of the source tree.
----
```

Provider: Google / Component(s): Protocol Buffers (aka Google protobuf) 3.4.0

```
This license applies to all parts of Protocol Buffers except the following:

  - Atomicops support for generic gcc, located in
    src/google/protobuf/stubs/atomicops_internals_generic_gcc.h.
    This file is copyrighted by Red Hat Inc.

  - Atomicops support for AIX/POWER, located in
    src/google/protobuf/stubs/atomicops_internals_power.h.
    This file is copyrighted by Bloomberg Finance LP.

Copyright 2014, Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

-----------------------------
atomicops_internals_power.h

// Copyright 2014 Bloomberg Finance LP. All rights reserved.
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
// met:
//
//     * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
//     * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following disclaimer
// in the documentation and/or other materials provided with the
// distribution.
//     * Neither the name of Bloomberg Finance LP. nor the names of its
// contributors may be used to endorse or promote products derived from
// this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------
atomicops_internals_generic_gcc.h

// Copyright 2013 Red Hat Inc.  All rights reserved.
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
// met:
//
//     * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
//     * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following disclaimer
// in the documentation and/or other materials provided with the
// distribution.
//     * Neither the name of Red Hat Inc. nor the names of its
// contributors may be used to endorse or promote products derived from
// this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Google / Component(s): Protocol Buffers (aka Google protobuf) 3.8.0

```
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
```

Provider: Google / Component(s): Protocol Buffers (aka Google protobuf) 3.9.0

```
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
```

```
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
```

Provider: Google / Component(s): uuid 1.1.1

```
source code files (ending with .go) have one of the following copyright
 notices:
// Copyright 2016 Google Inc.  All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

// Copyright 2018 Google Inc.  All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

URL for LICENSE file:  https://github.com/google/uuid/blob/master/LICENSE
LICENSE file text:
Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Google / Component(s): uuid 1.2.0

```
source code files (ending with .go) have one of the following copyright
 notices:
// Copyright 2016 Google Inc.  All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

// Copyright 2018 Google Inc.  All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

URL for LICENSE file:  https://github.com/google/uuid/blob/master/LICENSE
LICENSE file text:
Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Google Inc / Component(s): Guice 7.0.0

```
Copyright: Google Inc
=== Source URL: https://github.com/google/guice/tree/7.0.0
License: Apache 2.0

 ./COPYING

                                 Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
-------------- Separator --------------

 ./COPYING

Apache 2.0 ( same as top-level )
-------------- Separator --------------



Dependency: aopalliance:aopalliance
Copyright: AOP Alliance
=== Source URL: https://sourceforge.net/projects/aopalliance/files/
aopalliance/1.0/
License: Public Domain

 https://aopalliance.sourceforge.net/

LICENCE: all the source code provided by AOP Alliance is Public Domain.


-------------- Separator --------------

 https://creativecommons.org/share-your-work/public-domain/


Public domain

Our licenses help authors keep and manage their copyright on terms they
 choose. Our public domain tools, on the other hand, enable authors and
 copyright owners who want to dedicate their works to the worldwide public
 domain to do so, and facilitate the labeling and discovery of works that
 are already free of known copyright restrictions.
CC0

Use this universal tool if you are a holder of copyright or database rights,
 and you wish to waive all your interests that may exist in your work
 worldwide. Because copyright laws differ around the world, you may use this
 tool even though you may not have copyright in your jurisdiction, but want
 to be sure to eliminate any copyrights you may have in other jurisdictions.

    Learn more
    Use this tool

Public Domain Mark

Use this tool if you have identified a work that is free of known copyright
 restrictions. Creative Commons does not recommend this tool for works that
 are restricted by copyright laws in one or more jurisdictions.

-------------- Separator --------------



Dependency: com.google.code.findbugs:jsr305
Copyright: JSR305 expert group
=== Source URL: https://github.com/findbugsproject/findbugs/tree/90c514bc9
License: BSD 3-Clause

 === jcip-annotations & JSR license

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:
== jcip-annotations (RELICENSED to Oracle under BSD 3-clause)

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------



Dependency: com.google.errorprone:error_prone_annotations
Copyright: The Error Prone Authors
```

```
=== Source URL: https://github.com/google/error-prone/tree/v2.11.0/
annotations
License: Apache 2.0

 ./COPYING

Apache 2.0 ( same as com.google.inject:guice)

-------------- Separator --------------



Dependency: com.google.guava:failureaccess
Copyright: Google Inc.
=== Source URL: https://github.com/google/guava/tree/failureaccess-v1.0.1/
futures/failureaccess
License: Apache 2.0

 ./COPYING

Apache 2.0 ( same as com.google.inject:guice)

-------------- Separator --------------



Dependency: com.google.guava:guava
Copyright: Google Inc.
=== Source URL: https://github.com/google/guava/tree/v31.0.1/guava
License: Apache 2.0

 ./COPYING

Apache 2.0 ( same as com.google.inject:guice)

-------------- Separator --------------



Dependency: com.google.guava:listenablefuture
Copyright: Google Inc.
=== Source URL: https://github.com/google/guava/tree/released-all-futures/
futures/listenablefuture1
License: Apache 2.0

 ./COPYING

Apache 2.0 ( same as com.google.inject:guice)

-------------- Separator --------------



Dependency: com.google.j2objc:j2objc-annotations
Copyright: Google Inc.
=== Source URL: https://github.com/google/j2objc/tree/1.3/annotations
License: Apache 2.0

 ./LICENSE

Apache 2.0 ( same as com.google.inject:guice)

-------------- Separator --------------
```

```
Dependency: jakarta.inject:jakarta.inject-api
Copyright: Eclipse Foundation
=== Source URL: https://github.com/eclipse-ee4j/injection-api/tree/2.0.1
License: Apache 2.0

 ./LICENSE.txt

Apache 2.0 ( same as com.google.inject:guice)

-------------- Separator --------------

 ./NOTICE.md

# Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency
 Injection project.

* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

None


-------------- Separator --------------
```

```
Dependency: org.checkerframework:checker-qual
Copyright: Checker Framework developers
=== Source URL: https://github.com/typetools/checker-framework/tree/checker-
framework-3.21.3/checker-qual
License: MIT

 ./LICENSE.txt

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers
MIT License:
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Google Inc. / Component(s): go-genproto b69ba1387ce2108ac9bc8e8e5e5a46e7d5c72313

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Google Inc. / Component(s): go-genproto c2c4e71

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Google Inc. / Component(s): Google log (glog) 0.3.5

```
Copyright (c) 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


A function gettimeofday in utilities.cc is based on

http://www.google.com/codesearch/p?hl=en#dR3YEbitojA/
COPYING&q=GetSystemTimeAsFileTime%20license:bsd

The license of this code is:

Copyright (c) 2003-2008, Jouni Malinen <j@w1.fi> and contributors
All Rights Reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name(s) of the above-listed copyright holder(s) nor the
   names of its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Google Inc. / Component(s): google-api-client 2.3.0

```
OSCSKB:3rd-Party Metadata

Artifact : com.google.api-client:google-api-client:2.3.0
Copyright: Google Inc.
License: Apache 2.0

 ./LICENSE

                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------



Dependency: com.google.code.findbugs:jsr305
Copyright: JSR305 expert group
License: BSD 3-Clause

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:
== jcip-annotations (RELICENSED to Oracle under BSD 3-clause)

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------



Dependency: com.google.code.gson:gson
Copyright: Google Inc.
License: Apache 2.0

 ./LICENSE

Google Gson

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2008-2011 Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
-------------- Separator --------------



Dependency: com.google.errorprone:error_prone_annotations
Copyright: The Error Prone Authors
License: Apache 2.0

 ./COPYING

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------



Dependency: com.google.guava:failureaccess
Copyright: Google Inc.
License: Apache 2.0

 ./COPYING

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------



Dependency: com.google.guava:guava
Copyright: Google Inc.
License: Apache 2.0

 ./LICENSE

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------



Dependency: com.google.guava:listenablefuture
Copyright: Google Inc.
License: Apache 2.0

 ./COPYING

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------



Dependency: com.google.http-client:google-http-client
Copyright: Google Inc.
License: Apache 2.0

 ./LICENSE

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------
```

```
Dependency: com.google.http-client:google-http-client-apache-v2
Copyright: Google Inc.
License: Apache 2.0

 ./LICENSE

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------



Dependency: com.google.http-client:google-http-client-gson
Copyright: Google Inc.
License: Apache 2.0

 ./LICENSE

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------



Dependency: com.google.j2objc:j2objc-annotations
Copyright: Google Inc.
License: Apache 2.0

 ./LICENSE


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
```

```
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
```

```
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------------------------------------
The next section, BSD-3-Clause, applies to the files in:
jre_emul/android/platform/libcore/ojluni/src/main/java/java/time
--------------------------------------------------------------------------------
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of JSR-310 nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------- Separator --------------



Dependency: com.google.oauth-client:google-oauth-client
Copyright: Google Inc.
License: Apache 2.0

 ./LICENSE

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------



Dependency: commons-codec:commons-codec
Copyright: The Apache Software Foundation
License: Apache 2.0

 ./LICENSE.txt

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------

 ./NOTICE.txt

Apache Commons Codec
Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).


-------------- Separator --------------



Dependency: commons-logging:commons-logging
Copyright: The Apache Software Foundation
License: Apache 2.0

 ./LICENSE.txt

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------

 ./license-header.txt
```

```
/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements.  See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License.  You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */


-------------- Separator --------------

 ./NOTICE.txt

Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



-------------- Separator --------------



Dependency: io.grpc:grpc-context
Copyright: The gRPC Authors
License: Apache 2.0

 ./LICENSE

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------

 ./NOTICE.txt

Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------------------------------------------------------------

This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
```

```
at:

  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp

This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:

  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy

This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:

  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate

This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:

  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa


-------------- Separator --------------



Dependency: io.opencensus:opencensus-api
Copyright: Open Census
License: Apache 2.0

 ./LICENSE

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------



Dependency: io.opencensus:opencensus-contrib-http-util
Copyright: Open Census
```

```
License: Apache 2.0

 ./LICENSE

APACHE 2.0 ( same as com.google.api-client:google-api-client)

-------------- Separator --------------



Dependency: org.apache.httpcomponents:httpclient
Copyright: The Apache Software Foundation
License: Apache 2.0

 ./LICENSE.txt

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
```

```
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

==========================================================================

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

    (a) that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or

    (b) that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the
        terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
```

```
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:
```

```
(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
```

```
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
```

```
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
```

```
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.
```

```
-------------- Separator --------------

 ./NOTICE.txt

Apache HttpComponents Client
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).



-------------- Separator --------------



Dependency: org.apache.httpcomponents:httpcore
Copyright: The Apache Software Foundation
License: Apache 2.0

 ./LICENSE.txt

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


-------------- Separator --------------

 ./NOTICE.txt

Apache HttpComponents Core
Copyright 2005-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


-------------- Separator --------------



Dependency: org.checkerframework:checker-compat-qual
Copyright: Checker Framework developers
License: MIT

 ./LICENSE.txt

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-------------- Separator --------------



Dependency: org.checkerframework:checker-qual
Copyright: Checker Framework developers
License: MIT

 ./LICENSE.txt
```

```
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers
MIT License:
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-------------- Separator --------------
```

Provider: Google Inc. / Component(s): GSON 2.11.0

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
```

```
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
```

```
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Top Level Notice:
* Copyright (C) 2008 Google Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
-------------------------------------------------------------------------------------------
Fourth party dependencies:
com.google.errorprone » error_prone_annotations
Apache 2.0
```

```
 Copyright 2011 The Error Prone Authors.

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
```

Provider: Google Inc. / Component(s): Guice 5.0.1

```
URL for License - https://github.com/google/guice/blob/4.0/COPYING
URL for Copyright Notice - https://github.com/google/guice/blob/4.0/pom.xml
Copyright (c) 2006 Google, Inc. All rights reserved.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=====================================================================
+--- 4th party: ASM 9.1
https://gitlab.ow2.org/asm/asm/blob/master/LICENSE.txt

ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
```

```
 THE POSSIBILITY OF SUCH DAMAGE.

=====================================================================
+--- 4th party: aopalliance 1.0
https://sourceforge.net/projects/aopalliance/files/aopalliance/1.0/

"LICENCE: all the source code provided by AOP Alliance is Public Domain."

=====================================================================
+--- 4th party: Guava 30.1.1

Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

======================================================================
+--- 4th party: com.google.guava:failureaccess

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0> See Prior Apache License
======================================================================
+--- 4th party: com.google.guava:listenablefuture

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0> See Prior Apache License
=====================================================================
+--- 4th party: com.google.code.findbugs:jsr305

The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:

  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:

  http://code.google.com/p/jsr-305/

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

=====================================================================
+--- 4th party: jcip-annotations

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
```

```
3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

=====================================================================
+--- 4th party: com.google.errorprone:error_prone_annotations

Copyright 2015 The Error Prone Authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

  < Apache License Version 2.0> See Prior Apache License

====================================================================
+--- 4th party: com.google.j2objc:j2objc-annotations

Google Inc.
Daniel Connelly

Copyright 2012 Google Inc. All Rights Reserved.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0> See Prior Apache License

=========================================================================

+--- 4th party: org.checkerframework:checker-qual

Copyright 2004-present by the Checker Framework developers

MIT License:
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

==============================================================================

+--- 4th party: org.codehaus.mojo:animal-sniffer-annotations

Copyright (c) 2009 codehaus.org.

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Google Inc. / Component(s): Guice 5.1.0

```
URL for License - https://github.com/google/guice/blob/4.0/COPYING
URL for Copyright Notice - https://github.com/google/guice/blob/4.0/pom.xml
Copyright (c) 2006 Google, Inc. All rights reserved.

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
```

```
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=====================================================================
+--- 4th party: ASM 9.1
https://gitlab.ow2.org/asm/asm/blob/master/LICENSE.txt

ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

=====================================================================
+--- 4th party: aopalliance 1.0
https://sourceforge.net/projects/aopalliance/files/aopalliance/1.0/

"LICENCE: all the source code provided by AOP Alliance is Public Domain."

=====================================================================
+--- 4th party: Guava 30.1.1

Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

======================================================================
+--- 4th party: com.google.guava:failureaccess

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0> See Prior Apache License
======================================================================
+--- 4th party: com.google.guava:listenablefuture

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0> See Prior Apache License
======================================================================
+--- 4th party: com.google.code.findbugs:jsr305

The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:

  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:

  http://code.google.com/p/jsr-305/

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

=====================================================================
+--- 4th party: jcip-annotations

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

=====================================================================
+--- 4th party: com.google.errorprone:error_prone_annotations

Copyright 2015 The Error Prone Authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

  < Apache License Version 2.0> See Prior Apache License

=================================================================
+--- 4th party: com.google.j2objc:j2objc-annotations

Google Inc.
Daniel Connelly

Copyright 2012 Google Inc. All Rights Reserved.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0> See Prior Apache License

=========================================================================

+--- 4th party: org.checkerframework:checker-qual

Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

=========================================================================

+--- 4th party: org.codehaus.mojo:animal-sniffer-annotations

Copyright (c) 2009 codehaus.org.

MIT License:
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Google Inc. / Component(s): Guice 6.0.0

```
------------------------------- Top-level license --------------------------

Apache 2.0

------------------------------- Copyright notices --------------------------

Copyright (c) 2006 Google, Inc. All rights reserved.

This program is licensed to you under the Apache License Version 2.0,
and you may not use this file except in compliance with the Apache License
 Version 2.0.
You may obtain a copy of the Apache License Version 2.0 at http://
www.apache.org/licenses/LICENSE-2.0.

Unless required by applicable law or agreed to in writing,
software distributed under the Apache License Version 2.0 is distributed on
 an
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
 or implied.
See the Apache License Version 2.0 for the specific language governing
 permissions and limitations there under.

---------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY 1
ASM

== License
 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
```

```
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
aopalliance

== License
"LICENCE: all the source code provided by AOP Alliance is Public Domain."

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
Guava

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
failureaccess

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 5
listenablefuture

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

         http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 6
com.google.code.findbugs:jsr305


The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:

  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:

  http://code.google.com/p/jsr-305/

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
```

```
== NAME OF DEPENDENCY 7
com.google.errorprone:error_prone_annotations

== License
Apache 2.0

== Copyright Notices
Copyright 2015 The Error Prone Authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 8
com.google.j2objc:j2objc-annotations

== License
Apache 2.0

== Copyright Notices
Google Inc.
Daniel Connelly

Copyright 2012 Google Inc. All Rights Reserved.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 9
org.checkerframework:checker-qual

== License
MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

== Copyright Notices
Copyright 2004-present by the Checker Framework developers

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 10
jakarta.inject » javax.inject

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2009 The JSR-330 Expert Group

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 11
jakarta.inject » jakarta.inject-api

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2009 The JSR-330 Expert Group

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------(separator)---------------------------------
== LICENSES
.
== Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
```

Provider: Google Inc. / Component(s): guice-assistedinject 6.0.0

```
com.google.inject.extensions:guice-assistedinject
/*
 * Copyright (C) 2020 Google Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
```

```
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
```

```
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=====================================================================
#######################################
########## 4th PARTY LEVEL LICENCE  ###########
#######################################

com.google.errorprone:error_prone_annotations
com.google.guava:listenablefuture
com.google.guava:failureaccess
com.google.inject:guice
com.google.guava:guava
javax.inject:javax.inject
jakarta.inject:jakarta.inject-api


                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
```

```
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
```

```
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=====================================================================
+--- 4th party: jakarta.inject:jakarta.inject-api:jar:2.0.1
# Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency
 Injection project.

* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.
```

```
## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

None
==================================================================
+--- 4th party: aopalliance 1.0


The AOP Alliance project is a joint open-source project between several
 software engineering people who are interested in AOP and Java.

LICENCE: all the source code provided by AOP Alliance is Public Domain.

==================================================================
+--- 4th party: com.google.code.findbugs:jsr305

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
```

```
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

=====================================================================
== jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
=====================================================================

+--- 4th party: org.checkerframework:checker-qual

Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

```
=================================================================
+--- 4th party: com.google.j2objc:j2objc-annotations

Copyright 2014, Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
=============================================================================
```

Provider: Google Inc. / Component(s): guice-persist 6.0.0

```
------------------------------- Top-level license --------------------------

Apache 2.0

------------------------------- Copyright notices --------------------------

Copyright (c) 2006 Google, Inc. All rights reserved.

This program is licensed to you under the Apache License Version 2.0,
and you may not use this file except in compliance with the Apache License
 Version 2.0.
You may obtain a copy of the Apache License Version 2.0 at http://
www.apache.org/licenses/LICENSE-2.0.

Unless required by applicable law or agreed to in writing,
software distributed under the Apache License Version 2.0 is distributed on
 an
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
 or implied.
See the Apache License Version 2.0 for the specific language governing
 permissions and limitations there under.
```

```
---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 1
aopalliance

== License
"LICENCE: all the source code provided by AOP Alliance is Public Domain."

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
Guava

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
failureaccess

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
listenablefuture

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

         http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 5
com.google.code.findbugs:jsr305


The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:

  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:

  http://code.google.com/p/jsr-305/

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 6
com.google.errorprone:error_prone_annotations

== License
Apache 2.0

== Copyright Notices
Copyright 2015 The Error Prone Authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 7
com.google.j2objc:j2objc-annotations

== License
Apache 2.0

== Copyright Notices
Google Inc.
Daniel Connelly

Copyright 2012 Google Inc. All Rights Reserved.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 8
org.checkerframework:checker-qual

== License
MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

== Copyright Notices
Copyright 2004-present by the Checker Framework developers
```

```
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 9
jakarta.inject » javax.inject

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2009 The JSR-330 Expert Group

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 10
jakarta.inject » jakarta.inject-api

== License
Apache 2.0

== Copyright Notices
Copyright (C) 2009 The JSR-330 Expert Group

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------(separator)---------------------------------
== LICENSES
.
== Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
```

Provider: Google LLC / Component(s): Admin SDK API Client Library for Java directory_v1-rev20230103-2.0.0

```
------------------------------- Top-level license --------------------------
The Apache Software License, Version 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------- Copyright notices --------------------------
Copyright 2010 Google Inc. All Rights Reserved.
---------------------------- Dependency information -----------------------
== NAME OF DEPENDENCY 1
com.google.api-client:google-api-client:jar:2.1.1
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright 2020 Google LLC
```

```
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
com.google.oauth-client:google-oauth-client:jar:1.34.1
== License
The Apache Software License, Version 2.0
== Copyright Notices
Copyright (c) 2010 Google Inc.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
com.google.http-client:google-http-client-gson:jar:1.42.3
== License
The Apache Software License, Version 2.0
== Copyright Notices
Copyright 2013 Google Inc.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
com.google.code.gson:gson:jar:2.10
== License Type
Apache-2.0
== Copyright Notices
Copyright (C) 2018 The Gson authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 5
com.google.guava:guava:jar:31.1-jre
== License Type
Apache License, Version 2.0
== Copyright Notices
Copyright (C) 2008 The Guava Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 6
com.google.guava:failureaccess:jar:1.0.1
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright (C) 2018 The Guava Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 7
com.google.guava:listenablefuture:jar:9999.0-empty-to-avoid-conflict-with-
guava
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright (C) 2010 The Guava Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 8
com.google.errorprone:error_prone_annotations:jar:2.11.0
== License Type
Apache 2.0
== Copyright Notices
Copyright 2018 The Error Prone Authors.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 9
com.google.j2objc:j2objc-annotations:jar:1.3
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright 2008 Google Inc.  All rights reserved.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 10
com.google.http-client:google-http-client-apache-v2:jar:1.42.3
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright 2019 Google LLC
```

```
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 11
com.google.http-client:google-http-client:jar:1.42.3
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright (c) 2011 Google Inc.
--------------------------------(separator)---------------------------------


---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 1
commons-codec:commons-codec
== License Type
Apache License, Version 2.0
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
org.checkerframework:checker-qual
== License Type
The MIT License
Begin license text.

Copyright <YEAR> <COPYRIGHT HOLDER>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

End license text.

== Copyright Notices
Copyright (c) 2013-2016 University of Washington. All rights reserved.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
org.apache.httpcomponents:httpcore
== License Type
Apache License, Version 2.0
== Copyright Notices
Copyright 2005-2021 The Apache Software Foundation
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
org.apache.httpcomponents:httpclient
== License Type
Apache License, Version 2.0
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 5
commons-logging:commons-logging
== License Type
The Apache Software License, Version 2.0
```

```
== Copyright Notices
Copyright 2003-2023 The Apache Software Foundation
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 6
io.opencensus:opencensus-api
== License Type
The Apache License, Version 2.0
== Copyright Notices
Copyright 2018, OpenCensus Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 7
io.grpc:grpc-context
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright 2019 Envoy Project Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 8
io.opencensus:opencensus-contrib-http-util
== License Type
The Apache License, Version 2.0
== Copyright Notices
Copyright 2018, OpenCensus Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 9
com.google.code.findbugs:jsr305
== License Type
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

== NAME OF DEPENDENCY 10
jcip-annotations
== License Type
jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

Provider: Google LLC / Component(s): Google Cloud Pub/Sub Client for Java 1.126.5

```
*************************************************************
***************** Copied from BA Public License *****************

--------------------------------Top Level
 License--------------------------------
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
  2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
  3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
  4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
```

```
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
---------------------------------4th Party
 Dependencies--------------------------------
-------- Dependency 1
```

```
io.grpc:grpc-stub
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 2
io.grpc:grpc-protobuf
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
```

```
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-----------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 3
io.grpc:grpc-protobuf-lite
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-----------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
```

```
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 4
com.google.api:api-common
-------- Copyrights
Copyright 2016 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 5
com.google.protobuf:protobuf-java
-------- Copyrights
Copyright 2008 Google Inc.  All rights reserved.
-------- Notices
BSD 3-Clause
Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
-------- Dependency 6
com.google.api.grpc:proto-google-common-protos
-------- Copyrights
  Copyright 2020 Google LLC
-------- Notices
```

```
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 7
com.google.auth:google-auth-library-oauth2-http
-------- Copyrights
Copyright 2014, Google Inc. All rights reserved.
-------- Notices
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------- Dependency 8
com.google.auth:google-auth-library-credentials
-------- Copyrights
Copyright 2014, Google Inc. All rights reserved.
-------- Notices
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------- Dependency 9
com.google.http-client:google-http-client-gson
-------- Copyrights
 * Copyright (c) 2011 Google Inc.
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
-------- Dependency 10
com.google.api.grpc:proto-google-cloud-pubsub-v1
-------- Copyrights
Copyright 2020 Google LLC
-------- Notices
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-------- Dependency 11
com.google.api.grpc:proto-google-iam-v1
-------- Copyrights
  Copyright 2020 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 12
com.google.guava:guava
-------- Copyrights
 * Copyright (C) 2005 The Guava Authors
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
```

```
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
-------- Dependency 13
com.google.guava:failureaccess
-------- Copyrights
 * Copyright (C) 2018 The Guava Authors
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
-------- Dependency 14
com.google.guava:listenablefuture
-------- Copyrights
 * Copyright (C) 2007 The Guava Authors
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
-------- Dependency 15
org.checkerframework:checker-qual
-------- Copyrights
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers
-------- Notices
MIT License:
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
-------- Dependency 16
com.google.j2objc:j2objc-annotations
-------- Copyrights
 * Copyright 2012 Google Inc. All Rights Reserved.
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
-------- Dependency 17
com.google.api:gax
-------- Copyrights
Copyright 2016 Google LL
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 18
com.google.api:gax-grpc
-------- Copyrights
Copyright 2016 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 19
io.grpc:grpc-alts
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
See the License for the specific language governing permissions and
limitations under the License.
-----------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 20
io.grpc:grpc-grpclb
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-----------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
```

```
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 21
org.conscrypt:conscrypt-openjdk-uber
-------- Copyrights
Copyright 2016 The Android Open Source Project
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of `Netty`, a configurable network
stack in Java, which can be obtained at:
  * LICENSE:
    * licenses/LICENSE.netty.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://netty.io/
This product contains a modified portion of `Apache Harmony`, modular Java
 runtime,
which can be obtained at:
  * LICENSE:
    * licenses/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://harmony.apache.org/
-------- Dependency 22
io.grpc:grpc-auth
-------- Copyrights
Copyright 2014 The gRPC Authors
```

```
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 23
io.grpc:grpc-netty-shaded
-------- Copyrights
Copyright 2016 The Netty Project
-------- Notices
The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
  http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.
```

```
-------------------------------------------------------------------------------
This product contains a forked and modified version of Tomcat Native
  * LICENSE:
    * license/LICENSE.tomcat-native.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://tomcat.apache.org/native-doc/
    * https://svn.apache.org/repos/asf/tomcat/native/
This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.
  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper
This product contains small piece of code to support AIX, taken from netbsd.
  * LICENSE:
    * license/LICENSE.aix-netbsd.txt (OpenSSL License)
  * HOMEPAGE:
    * https://ftp.netbsd.org/pub/NetBSD/NetBSD-current/src/crypto/external/
bsd/openssl/dist
This product contains code from boringssl.
  * LICENSE (Combination ISC and OpenSSL license)
    * license/LICENSE.boringssl.txt (Combination ISC and OpenSSL license)
  * HOMEPAGE:
    * https://boringssl.googlesource.com/boringssl/
-------- Dependency 24
io.perfmark:perfmark-api
-------- Copyrights
Copyright 2019 Google LLC
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-----------------------------------------------------------------------
This product contains a modified portion of 'Catapult', an open source
Trace Event viewer for Chome, Linux, and Android applications, which can
be obtained at:
  * LICENSE:
    * traceviewer/src/main/resources/io/perfmark/traceviewer/third_party/
catapult/LICENSE (New BSD License)
  * HOMEPAGE:
    * https://github.com/catapult-project/catapult
This product contains a modified portion of 'Polymer', a library for Web
Components, which can be obtained at:
  * LICENSE:
    * traceviewer/src/main/resources/io/perfmark/traceviewer/third_party/
polymer/LICENSE (New BSD License)
  * HOMEPAGE:
    * https://github.com/Polymer/polymer
This product contains a modified portion of 'ASM', an open source
Java Bytecode library, which can be obtained at:
  * LICENSE:
    * agent/src/main/resources/io/perfmark/agent/third_party/asm/LICENSE
 (BSD style License)
  * HOMEPAGE:
    * https://asm.ow2.io/
-------- Dependency 25
io.grpc:grpc-googleapis
```

```
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 26
io.grpc:grpc-xds
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
See the License for the specific language governing permissions and
limitations under the License.
-----------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 27
io.opencensus:opencensus-proto
-------- Copyrights
  Copyright 2017, OpenCensus Authors
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 28
io.grpc:grpc-services
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
```

```
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-----------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 29
com.google.re2j:re2j
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
-------- Notices
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
     distribution.
   * Neither the name of Google Inc. nor the names of its contributors
     may be used to endorse or promote products derived from this
```

```
     software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------- Dependency 30
com.google.api:gax-httpjson
-------- Copyrights
Copyright 2016 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 31
com.google.code.gson:gson
-------- Copyrights
Copyright 2008 Google Inc.
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-------- Dependency 32
com.google.protobuf:protobuf-java-util
-------- Copyrights
Copyright 2008 Google Inc.  All rights reserved.
-------- Notices
BSD 3-Clause
Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
-------- Dependency 33
org.threeten:threetenbp
-------- Copyrights
Copyright (c) 2007-present, Stephen Colebourne & Michael Nascimento Santos.
-------- Notices
BSD 3-Clause
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
```

```
  and/or other materials provided with the distribution.
* Neither the name of JSR-310 nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------- Dependency 34
com.google.code.findbugs:jsr305
-------- Copyrights
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.
-------- Notices
== jcip-annotations relicensed to Oracle under BSD 3-clause license
Copyright (c) 2005, Brian Goetz and Tim Peierls
-------- Dependencies Summary
com.google.code.findbugs:jsr305
-------- License used by Dependencies
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
== jcip-annotations relicensed to Oracle under BSD 3-clause license
Copyright (c) 2005, Brian Goetz and Tim Peierls
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
```

```
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
-------- Dependency 35
io.opencensus:opencensus-api
-------- Copyrights
 Copyright 2017, OpenCensus Authors
-------- Notices

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 36
io.grpc:grpc-inprocess
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
```

```
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 37
io.grpc:grpc-core
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
```

```
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 38
com.google.android:annotations
-------- Copyrights
  Copyright (C) 2013 The Android Open Source Project
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 39
org.codehaus.mojo:animal-sniffer-annotations
-------- Copyrights
Copyright (c) 2009 codehaus.org.
-------- Notices
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
-------- Dependency 40
io.grpc:grpc-util
-------- Copyrights
Copyright 2014 The gRPC Authors
-------- Notices
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
---------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa
-------- Dependency 41
com.google.errorprone:error_prone_annotations
-------- Copyrights
  Copyright 2013 The Error Prone Authors.
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 42
com.google.auto.value:auto-value-annotations
-------- Copyrights
Copyright 2013 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at
```

```
      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 43
com.google.http-client:google-http-client
-------- Copyrights
 * Copyright (c) 2010 Google Inc.
-------- Notices
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
-------- Dependency 44
org.apache.httpcomponents:httpclient
-------- Copyrights
Copyright 1999-2022 The Apache Software Foundation
-------- Notices
Apache HttpClient
Copyright 1999-2022 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
-------- Dependency 45
commons-logging:commons-logging
-------- Copyrights
Copyright 2003-2014 The Apache Software Foundation
-------- Notices
Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
-------- Dependency 46
commons-codec:commons-codec
-------- Copyrights
Copyright 2002-2024 The Apache Software Foundation
-------- Notices
Apache Commons Codec
Copyright 2002-2024 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
-------- Dependency 47
org.apache.httpcomponents:httpcore
-------- Copyrights
Copyright 2005-2022 The Apache Software Foundation
-------- Notices
Apache HttpCore
Copyright 2005-2022 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
-------- Dependency 48
io.opencensus:opencensus-contrib-http-util
```

```
-------- Copyrights
  Copyright 2017, OpenCensus Authors
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-------- Dependency 49
javax.annotation:javax.annotation-api
------- Copyrights
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1
1. Definitions.
    1.1. "Contributor" means each individual or entity that creates or
    contributes to the creation of Modifications.
    1.2. "Contributor Version" means the combination of the Original
    Software, prior Modifications used by a Contributor (if any), and
    the Modifications made by that particular Contributor.
    1.3. "Covered Software" means (a) the Original Software, or (b)
    Modifications, or (c) the combination of files containing Original
    Software with files containing Modifications, in each case including
    portions thereof.
    1.4. "Executable" means the Covered Software in any form other than
    Source Code.
    1.5. "Initial Developer" means the individual or entity that first
    makes Original Software available under this License.
    1.6. "Larger Work" means a work which combines Covered Software or
    portions thereof with code not governed by the terms of this License.
    1.7. "License" means this document.
    1.8. "Licensable" means having the right to grant, to the maximum
    extent possible, whether at the time of the initial grant or
    subsequently acquired, any and all of the rights conveyed herein.
    1.9. "Modifications" means the Source Code and Executable form of
    any of the following:
    A. Any file that results from an addition to, deletion from or
    modification of the contents of a file containing Original Software
    or previous Modifications;
    B. Any new file that contains any part of the Original Software or
    previous Modification; or
    C. Any new file that is contributed or otherwise made available
    under the terms of this License.
    1.10. "Original Software" means the Source Code and Executable form
    of computer software code that is originally released under this
    License.
    1.11. "Patent Claims" means any patent claim(s), now owned or
    hereafter acquired, including without limitation, method, process,
    and apparatus claims, in any patent Licensable by grantor.
    1.12. "Source Code" means (a) the common form of computer software
    code in which modifications are made and (b) associated
    documentation included in or with such code.
    1.13. "You" (or "Your") means an individual or a legal entity
    exercising rights under, and complying with all of the terms of,
    this License. For legal entities, "You" includes any entity which
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
```

```
    ownership of such entity.
2. License Grants.
    2.1. The Initial Developer Grant.
    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, the Initial Developer
    hereby grants You a world-wide, royalty-free, non-exclusive license:
    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Initial Developer, to use, reproduce,
    modify, display, perform, sublicense and distribute the Original
    Software (or portions thereof), with or without Modifications,
    and/or as part of a Larger Work; and
    (b) under Patent Claims infringed by the making, using or selling of
    Original Software, to make, have made, use, practice, sell, and
    offer for sale, and/or otherwise dispose of the Original Software
    (or portions thereof).
    (c) The licenses granted in Sections 2.1(a) and (b) are effective on
    the date Initial Developer first distributes or otherwise makes the
    Original Software available to a third party under the terms of this
    License.
    (d) Notwithstanding Section 2.1(b) above, no patent license is
    granted: (1) for code that You delete from the Original Software, or
    (2) for infringements caused by: (i) the modification of the
    Original Software, or (ii) the combination of the Original Software
    with other software or devices.
    2.2. Contributor Grant.
    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, each Contributor hereby
    grants You a world-wide, royalty-free, non-exclusive license:
    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Contributor to use, reproduce, modify,
    display, perform, sublicense and distribute the Modifications
    created by such Contributor (or portions thereof), either on an
    unmodified basis, with other Modifications, as Covered Software
    and/or as part of a Larger Work; and
    (b) under Patent Claims infringed by the making, using, or selling
    of Modifications made by that Contributor either alone and/or in
    combination with its Contributor Version (or portions of such
    combination), to make, use, sell, offer for sale, have made, and/or
    otherwise dispose of: (1) Modifications made by that Contributor (or
    portions thereof); and (2) the combination of Modifications made by
    that Contributor with its Contributor Version (or portions of such
    combination).
    (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
    on the date Contributor first distributes or otherwise makes the
    Modifications available to a third party.
    (d) Notwithstanding Section 2.2(b) above, no patent license is
    granted: (1) for any code that Contributor has deleted from the
    Contributor Version; (2) for infringements caused by: (i) third
    party modifications of Contributor Version, or (ii) the combination
    of Modifications made by that Contributor with other software
    (except as part of the Contributor Version) or other devices; or (3)
    under Patent Claims infringed by Covered Software in the absence of
    Modifications made by that Contributor.
3. Distribution Obligations.
    3.1. Availability of Source Code.
    Any Covered Software that You distribute or otherwise make available
    in Executable form must also be made available in Source Code form
    and that Source Code form must be distributed only under the terms
    of this License. You must include a copy of this License with every
    copy of the Source Code form of the Covered Software You distribute
    or otherwise make available. You must inform recipients of any such
    Covered Software in Executable form as to how they can obtain such
    Covered Software in Source Code form in a reasonable manner on or
    through a medium customarily used for software exchange.
```

```
    3.2. Modifications.
    The Modifications that You create or to which You contribute are
    governed by the terms of this License. You represent that You
    believe Your Modifications are Your original creation(s) and/or You
    have sufficient rights to grant the rights conveyed by this License.
    3.3. Required Notices.
    You must include a notice in each of Your Modifications that
    identifies You as the Contributor of the Modification. You may not
    remove or alter any copyright, patent or trademark notices contained
    within the Covered Software, or any notices of licensing or any
    descriptive text giving attribution to any Contributor or the
    Initial Developer.
    3.4. Application of Additional Terms.
    You may not offer or impose any terms on any Covered Software in
    Source Code form that alters or restricts the applicable version of
    this License or the recipients' rights hereunder. You may choose to
    offer, and to charge a fee for, warranty, support, indemnity or
    liability obligations to one or more recipients of Covered Software.
    However, you may do so only on Your own behalf, and not on behalf of
    the Initial Developer or any Contributor. You must make it
    absolutely clear that any such warranty, support, indemnity or
    liability obligation is offered by You alone, and You hereby agree
    to indemnify the Initial Developer and every Contributor for any
    liability incurred by the Initial Developer or such Contributor as a
    result of warranty, support, indemnity or liability terms You offer.
    3.5. Distribution of Executable Versions.
    You may distribute the Executable form of the Covered Software under
    the terms of this License or under the terms of a license of Your
    choice, which may contain terms different from this License,
    provided that You are in compliance with the terms of this License
    and that the license for the Executable form does not attempt to
    limit or alter the recipient's rights in the Source Code form from
    the rights set forth in this License. If You distribute the Covered
    Software in Executable form under a different license, You must make
    it absolutely clear that any terms which differ from this License
    are offered by You alone, not by the Initial Developer or
    Contributor. You hereby agree to indemnify the Initial Developer and
    every Contributor for any liability incurred by the Initial
    Developer or such Contributor as a result of any such terms You offer.
    3.6. Larger Works.
    You may create a Larger Work by combining Covered Software with
    other code not governed by the terms of this License and distribute
    the Larger Work as a single product. In such a case, You must make
    sure the requirements of this License are fulfilled for the Covered
    Software.
4. Versions of the License.
    4.1. New Versions.
    Oracle is the initial license steward and may publish revised and/or
    new versions of this License from time to time. Each version will be
    given a distinguishing version number. Except as provided in Section
    4.3, no one other than the license steward has the right to modify
    this License.
    4.2. Effect of New Versions.
    You may always continue to use, distribute or otherwise make the
    Covered Software available under the terms of the version of the
    License under which You originally received the Covered Software. If
    the Initial Developer includes a notice in the Original Software
    prohibiting it from being distributed or otherwise made available
    under any subsequent version of the License, You must distribute and
    make the Covered Software available under the terms of the version
    of the License under which You originally received the Covered
    Software. Otherwise, You may also choose to use, distribute or
    otherwise make the Covered Software available under the terms of any
    subsequent version of the License published by the license steward.
```

```
    4.3. Modified Versions.
    When You are an Initial Developer and You want to create a new
    license for Your Original Software, You may create and use a
    modified version of this License if You: (a) rename the license and
    remove any references to the name of the license steward (except to
    note that the license differs from this License); and (b) otherwise
    make it clear that the license contains terms which differ from this
    License.
5. DISCLAIMER OF WARRANTY.
    COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
    WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
    INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
    IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
    NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
    THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
    DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
    OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
    REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
    ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
    AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.
6. TERMINATION.
    6.1. This License and the rights granted hereunder will terminate
    automatically if You fail to comply with terms herein and fail to
    cure such breach within 30 days of becoming aware of the breach.
    Provisions which, by their nature, must remain in effect beyond the
    termination of this License shall survive.
    6.2. If You assert a patent infringement claim (excluding
    declaratory judgment actions) against Initial Developer or a
    Contributor (the Initial Developer or Contributor against whom You
    assert such claim is referred to as "Participant") alleging that the
    Participant Software (meaning the Contributor Version where the
    Participant is a Contributor or the Original Software where the
    Participant is the Initial Developer) directly or indirectly
    infringes any patent, then any and all rights granted directly or
    indirectly to You by such Participant, the Initial Developer (if the
    Initial Developer is not the Participant) and all Contributors under
    Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
    from Participant terminate prospectively and automatically at the
    expiration of such 60 day notice period, unless if within such 60
    day period You withdraw Your claim with respect to the Participant
    Software against such Participant either unilaterally or pursuant to
    a written agreement with Participant.
    6.3. If You assert a patent infringement claim against Participant
    alleging that the Participant Software directly or indirectly
    infringes any patent where such claim is resolved (such as by
    license or settlement) prior to the initiation of patent
    infringement litigation, then the reasonable value of the licenses
    granted by such Participant under Sections 2.1 or 2.2 shall be taken
    into account in determining the amount or value of any payment or
    license.
    6.4. In the event of termination under Sections 6.1 or 6.2 above,
    all end user licenses that have been validly granted by You or any
    distributor hereunder prior to termination (excluding licenses
    granted to You by any distributor) shall survive termination.
7. LIMITATION OF LIABILITY.
    UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
    (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
    INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
    COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
    TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
    CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
    LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
    FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
    LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
```

```
    POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
    APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
    PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
    LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
    LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
    AND LIMITATION MAY NOT APPLY TO YOU.
8. U.S. GOVERNMENT END USERS.
    The Covered Software is a "commercial item," as that term is defined
    in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
    software" (as that term is defined at 48 C.F.R. §
    252.227-7014(a)(1)) and "commercial computer software documentation"
    as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
    with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
    (June 1995), all U.S. Government End Users acquire Covered Software
    with only those rights set forth herein. This U.S. Government Rights
    clause is in lieu of, and supersedes, any other FAR, DFAR, or other
    clause or provision that addresses Government rights in computer
    software under this License.
9. MISCELLANEOUS.
    This License represents the complete agreement concerning subject
    matter hereof. If any provision of this License is held to be
    unenforceable, such provision shall be reformed only to the extent
    necessary to make it enforceable. This License shall be governed by
    the law of the jurisdiction specified in a notice contained within
    the Original Software (except to the extent applicable law, if any,
    provides otherwise), excluding such jurisdiction's conflict-of-law
    provisions. Any litigation relating to this License shall be subject
    to the jurisdiction of the courts located in the jurisdiction and
    venue specified in a notice contained within the Original Software,
    with the losing party responsible for costs, including, without
    limitation, court costs and reasonable attorneys' fees and expenses.
    The application of the United Nations Convention on Contracts for
    the International Sale of Goods is expressly excluded. Any law or
    regulation which provides that the language of a contract shall be
    construed against the drafter shall not apply to this License. You
    agree that You alone are responsible for compliance with the United
    States export administration regulations (and the export control
    laws and regulation of any other countries) when You use, distribute
    or otherwise make available any Covered Software.
10. RESPONSIBILITY FOR CLAIMS.
    As between Initial Developer and the Contributors, each party is
    responsible for claims and damages arising, directly or indirectly,
    out of its utilization of rights under this License and You agree to
    work with Initial Developer and Contributors to distribute such
    responsibility on an equitable basis. Nothing herein is intended or
    shall be deemed to constitute any admission of liability.
----------------------------------------------------------------------
NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)
The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.
  The GNU General Public License (GPL) Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble
The licenses for most software are designed to take away your freedom to
```

```
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.
We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and
modification follow.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
```

```
that you also meet all of these conditions:
    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.
    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.
    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)
These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.
In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.
3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:
    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,
    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,
    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)
The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.
If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
```

```
code, even though third parties are not compelled to copy the source
along with the object code.
4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.
5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.
6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.
If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.
8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.
9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
```

```
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.
10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.
NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>
    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.
    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.
    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA
Also add information on how to contact you by electronic and paper mail.
If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:
    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.
The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.
```

```
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:
    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.
    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice
This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.
#
Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."
You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
licensed to you under their original licenses.
Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.
Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.
CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.
As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.
```

```
-------- Dependency 50
com.google.api:api-common
-------- Copyrights
Copyright 2016 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
```

Provider: Google LLC / Component(s): Identity and Access Management (IAM) API Client Library for Java v1-rev20221013-2.0.0

```
------------------------------- Top-level license -------------------------

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
```

```
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

---------------------------- Dependency information -----------------------
== NAME OF DEPENDENCY 1
com.google.api-client:google-api-client
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright 2013 Google Inc.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
com.google.oauth-client:google-oauth-client
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright (c) 2010 Google Inc.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
com.google.http-client:google-http-client-gson
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright (c) 2011 Google Inc.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 4
com.google.code.gson:gson
== License Type
```

```
Apache-2.0
== Copyright Notices
Copyright 2008 Google LLC
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 5
com.google.guava:guava
== License Type
Apache License, Version 2.0
== Copyright Notices
Copyright (C) 2012 The Guava Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 6
com.google.guava:failureaccess
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright (C) 2018 The Guava Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 7
com.google.guava:listenablefuture
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright (C) 2007 The Guava Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 8
com.google.errorprone:error_prone_annotations
== License Type
Apache 2.0
== Copyright Notices
Copyright 2018 The Error Prone Authors.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 9
com.google.j2objc:j2objc-annotations
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright 2008 Google Inc.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 10
com.google.http-client:google-http-client-apache-v2
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright 2019 Google LLC
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 11
com.google.http-client:google-http-client
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Copyright (c) 2018 Google Inc.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 12
org.checkerframework:checker-qual
== License Type
MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
== Copyright Notices
Copyright 2004-present by the Checker Framework developers
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 13
org.apache.httpcomponents:httpcore
== License Type
Apache License, Version 2.0
== Copyright Notices
Apache HttpComponents Core
Copyright 2005-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 14
org.apache.httpcomponents:httpclient
== License Type
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

===========================================================================

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

    (a) that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or

    (b) that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the
        terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.
```

```
1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.
```

```
2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
```

```
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.
```

```
5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
```

```
*  extent applicable law prohibits such limitation. Some                *
*  jurisdictions do not allow the exclusion or limitation of            *
*  incidental or consequential damages, so this exclusion and           *
*  limitation may not apply to You.                                     *
*                                                                       *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
```

```
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

== Copyright Notices
Apache HttpComponents Client
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 15
commons-logging:commons-logging
== License Type
The Apache Software License, Version 2.0
== Copyright Notices
Apache Commons Logging
Copyright 2003-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 16
commons-codec:commons-codec
== License
Apache License, Version 2.0
== Copyright Notices
Apache Commons Codec
Copyright 2002-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 17
io.opencensus:opencensus-api
== License Type
The Apache License, Version 2.0
== Copyright Notices
Copyright 2017, OpenCensus Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 18
io.grpc:grpc-context
== License Type
The Apache License, Version 2.0
== Copyright Notices
Copyright 2015 The gRPC Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 19
io.opencensus:opencensus-contrib-http-util
```

```
== License Type
The Apache License, Version 2.0
== Copyright Notices
Copyright 2018, OpenCensus Authors
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 20
com.google.code.findbugs:jsr305
== License Type
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

== NAME OF DEPENDENCY 21
jcip-annotations
== License Type
jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
```

```
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

Provider: GoogleCode / Component(s): libvpx 1.12.0

```
------------------------------- Top-level license --------------------------
Copyright (c) 2010, The WebM Project authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

  * Neither the name of Google, nor the WebM Project, nor the names
    of its contributors may be used to endorse or promote products
    derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------------------------- Copyright notices --------------------------
Additional IP Rights Grant (Patents)
------------------------------------

"These implementations" means the copyrightable works that implement the
 WebM
codecs distributed by Google as part of the WebM Project.

Google hereby grants to you a perpetual, worldwide, non-exclusive, no-
charge,
royalty-free, irrevocable (except as stated in this section) patent license
 to
make, have made, use, offer to sell, sell, import, transfer, and otherwise
run, modify and propagate the contents of these implementations of WebM,
 where
such license applies only to those patent claims, both currently owned by
Google and acquired in the future, licensable by Google that are necessarily
```

```
infringed by these implementations of WebM. This grant does not include
 claims
that would be infringed only as a consequence of further modification of
 these
implementations. If you or your agent or exclusive licensee institute or
 order
or agree to the institution of patent litigation or any other patent
enforcement activity against any entity (including a cross-claim or
counterclaim in a lawsuit) alleging that any of these implementations of
 WebM
or any code incorporated within any of these implementations of WebM
constitute direct or contributory patent infringement, or inducement of
patent infringement, then any patent rights granted to you under this
 License
for these implementations of WebM shall terminate as of the date such
litigation is filed.
----
Copyright (c) 2010 The WebM project authors. All Rights Reserved.

Use of this source code is governed by a BSD-style license
that can be found in the LICENSE file in the root of the source
tree. An additional intellectual property rights grant can be found
in the file PATENTS.  All contributing project authors may
be found in the AUTHORS file in the root of the source tree.

Based on code from the OggTheora software codec source code,
Copyright (C) 2002-2010 The Xiph.Org Foundation and contributors.
----
Copyright (c) 2010 The WebM project authors. All Rights Reserved.

Use of this source code is governed by a BSD-style license
that can be found in the LICENSE file in the root of the source
tree. An additional intellectual property rights grant can be found
in the file PATENTS.  All contributing project authors may
be found in the AUTHORS file in the root of the source tree.

This code was originally written by: Gregory Maxwell, at the Daala
project.
----
Copyright (c) 2010 The WebM project authors. All Rights Reserved.

Use of this source code is governed by a BSD-style license
that can be found in the LICENSE file in the root of the source
tree. An additional intellectual property rights grant can be found
in the file PATENTS.  All contributing project authors may
be found in the AUTHORS file in the root of the source tree.

This code was originally written by: Nathan E. Egge, at the Daala
project.
----
Copyright (c) 2013 The WebM project authors. All Rights Reserved.

Use of this source code is governed by a BSD-style license and patent
grant that can be found in the LICENSE file in the root of the source
tree. All contributing project authors may be found in the AUTHORS
file in the root of the source tree.
----
Copyright 2014 Google Inc. All Rights Reserved.

Use of this source code is governed by a BSD-style license
that can be found in the COPYING file in the root of the source
tree. An additional intellectual property rights grant can be found
in the file PATENTS. All contributing project authors may
be found in the AUTHORS file in the root of the source tree.
```

```
----
Copyright (c) 2019 The WebM project authors. All Rights Reserved.

Use of this source code is governed by a BSD-style license
that can be found in the LICENSE file in the root of the source
tree. An additional intellectual property rights grant can be found
in the file PATENTS.  All contributing project authors may
be found in the AUTHORS file in the root of the source tree.
---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 1
libwebm
== License Type
BSD-3
== Copyright Notices
Additional IP Rights Grant (Patents)
------------------------------------

"These implementations" means the copyrightable works that implement the
 WebM
codecs distributed by Google as part of the WebM Project.

Google hereby grants to you a perpetual, worldwide, non-exclusive, no-
charge,
royalty-free, irrevocable (except as stated in this section) patent license
 to
make, have made, use, offer to sell, sell, import, transfer, and otherwise
run, modify and propagate the contents of these implementations of WebM,
 where
such license applies only to those patent claims, both currently owned by
Google and acquired in the future, licensable by Google that are necessarily
infringed by these implementations of WebM. This grant does not include
 claims
that would be infringed only as a consequence of further modification of
 these
implementations. If you or your agent or exclusive licensee institute or
 order
or agree to the institution of patent litigation or any other patent
enforcement activity against any entity (including a cross-claim or
counterclaim in a lawsuit) alleging that any of these implementations of
 WebM
or any code incorporated within any of these implementations of WebM
constitute direct or contributory patent infringement, or inducement of
patent infringement, then any patent rights granted to you under this
 License
for these implementations of WebM shall terminate as of the date such
litigation is filed.
----
Copyright (c) 2016 The WebM project authors. All Rights Reserved.

Use of this source code is governed by a BSD-style license
that can be found in the LICENSE file in the root of the source
tree. An additional intellectual property rights grant can be found
in the file PATENTS.  All contributing project authors may
be found in the AUTHORS file in the root of the source tree.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
libyuv
== License Type
BSD-3
== Copyright Notices
Copyright 2017 The LibYuv Project Authors. All rights reserved.

Use of this source code is governed by a BSD-style license
```

```
that can be found in the LICENSE file in the root of the source
tree. An additional intellectual property rights grant can be found
in the file PATENTS. All contributing project authors may
be found in the AUTHORS file in the root of the source tree.
--------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY 3
x264 Project
== License Type
MIT
== Copyright Notices
Copyright (C) 2005-2016 x264 project

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
--------------------------------(separator)----------------------------------
== LICENSES

== Text of license (libwebm)
Copyright (c) 2010, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

  * Neither the name of Google nor the names of its contributors may
    be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.== Text
 of license (license name)

== Text of license (libyuv)
Copyright 2011 The LibYuv Project Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

  * Neither the name of Google nor the names of its contributors may
    be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== Text of license (x264 Project)
Copyright (C) 2005-2012 x264 project

Authors: Loren Merritt <lorenm@u.washington.edu>
         Anton Mitrofanov <BugMaster@narod.ru>
         Jason Garrett-Glaser <darkshikari@gmail.com>
         Henrik Gramner <hengar-6@student.ltu.se>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```

Provider: go-swagger maintainers / Component(s): runtime 2e9e988

```
"Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License."
```

Provider: go-swagger maintainers / Component(s): strfmt d65c7fd

```
"Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
```

```
   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License."

FOURTH PARTY DEPENDENCIES
github.com/asaskevich/govalidator v5 MIT "The MIT License (MIT)

Copyright (c) 2014 Alex Saskevich

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE."
```

Provider: Grafana Labs / Component(s): grafana-plugin-model
84176c64269d8060f99e750ee8aba6f062753336

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
```

```
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
```

```
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
```

```
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


MIT License

Copyright (c) 2017 HashiCorp

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.

1.8. “License”

     means this document.
```

```
1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.

1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
```

```
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.

2.6. Fair Use
```

```
     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices
```

```
     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
```

```
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party’s negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a party’s ability to bring cross-claims or counter-claims.
```

```
9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
      obtain one at
      http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.
```

```
You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice

      This Source Code Form is “Incompatible
      With Secondary Licenses”, as defined by
      the Mozilla Public License, v. 2.0.

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Great Expectations / Component(s): Great Expectations (GX) 0.17.19

```
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            great-expectations
License         Apache License 2.0
License Text                                     Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            altair
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright (c) 2015-2023, Vega-Altair Developers
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of vega-altair nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            entrypoints
License         MIT License
License Text    The MIT License (MIT)

Copyright (c) 2015 Thomas Kluyver and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            Jinja2
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            MarkupSafe
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
```

```
3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            jsonschema
License         MIT License
License Text    Copyright (c) 2013 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            attrs
License         MIT License
License Text    The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the attrs contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            importlib-metadata
License         Apache License 2.0
License Text
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


------------
 ---------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------------
Name            typing_extensions
License Text    A. HISTORY OF THE SOFTWARE
=======================
Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.
```

```
All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================
PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
```

```
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
```

```
6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
```

```
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            zipp
License         MIT License
License Text    Permission is hereby granted, free of charge, to any person
 obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            importlib-resources
License         MIT License
License Text    Permission is hereby granted, free of charge, to any person
 obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            pkgutil_resolve_name
License         MIT
License Text    The MIT License (MIT)

Copyright (c) 2020 Thomas Grainger.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Portions of this pkgutil-resolve-name Software may utilize the following
 copyrighted material, the use of which is hereby acknowledged.

cpython: https://github.com/python/cpython/
tree/1ed61617a4a6632905ad6a0b440cd2cafb8b6414


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 Python Software
 Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
```

```
Agreement.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            pyrsistent
License         MIT License
License Text    Copyright (c) 2022 Tobias Gustafsson

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.


------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name            numpy
LicenseText     Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
```

```
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: extra-dll\libopenb*.dll
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$
```

```
  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c
```

```
Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------
tempita

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
```

```
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------
dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

-----------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

-------------------------------------------------------------------------------
LICENSES_bundled in different directories:
```

```
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------
```

```
Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64
```

```
The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

```
Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

--------------------------------------------------------------------------------------------------------
```

```
Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          pandas
License       BSD License
License Text  BSD 3-Clause License

              Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda
 Foundry, Inc. and PyData Development Team
              All rights reserved.

              Copyright (c) 2011-2022, Open source contributors.

              Redistribution and use in source and binary forms, with or
 without
              modification, are permitted provided that the following
 conditions are met:

              * Redistributions of source code must retain the above
 copyright notice, this
                list of conditions and the following disclaimer.

              * Redistributions in binary form must reproduce the above
 copyright notice,
                this list of conditions and the following disclaimer in the
 documentation
                and/or other materials provided with the distribution.

              * Neither the name of the copyright holder nor the names of
 its
```

```
                contributors may be used to endorse or promote products
 derived from
                this software without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
 CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name         python-dateutil
License      Apache 2.0
LicenseText  Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
---------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.


------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            six
License         MIT License
License Text    Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name         pytz
License      MIT License
LicenseText  Copyright (c) 2003-2005 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            toolz
License         BSD License
License Text    Copyright (c) 2013 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of toolz nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
```

```
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            click
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright 2014 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            colorama
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright (c) 2010 Jonathan Hartley
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holders, nor those of its contributors
  may be used to endorse or promote products derived from this software
 without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          cryptography
License       Apache License; BSD License
License Text

BSD License
-----------
Copyright (c) Individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. Neither the name of PyCA Cryptography nor the names of its
 contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
--------------
```

```
                                 Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name         cffi
License      MIT License
LicenseText  MIT License

Copyright (c) 2020 CFFI, Python's C Foreign Function Interface

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            pycparser
License         BSD License
License Text    pycparser -- A C parser in Python

Copyright (c) 2008-2022, Eli Bendersky
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
```

```
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its contributors
 may
  be used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            ipython
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

- Copyright (c) 2008-Present, IPython Development Team
- Copyright (c) 2001-2007, Fernando Perez <fernando.perez@colorado.edu>
- Copyright (c) 2001, Janko Hauser <jhauser@zscout.de>
- Copyright (c) 2001, Nathaniel Gray <n8gray@caltech.edu>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
```

```
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            appnope
License         BSD License
License Text    this project is licensed under 2-clause BSD

Copyright (c) 2013, Min Ragan-Kelley

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            backcall
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright (c) 2014, Thomas Kluyver
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.
```

```
* Neither the name of the {organization} nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            decorator
License         BSD 2-Clause "Simplified" License
License Text    Copyright (c) 2005-2018, Michele Simionato
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            jedi
```

```
License         MIT
License Text    All contributions towards Jedi are MIT licensed.

--------------------------------------------------------------------------------
The MIT License (MIT)

Copyright (c) <2013> <David Halter and others, see AUTHORS.txt>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



------------
 --------------------------------------------------------------------------------
------------
 --------------------------------------------------------------------------------
Name            parso
License         MIT
License Text    All contributions towards parso are MIT licensed.

Some Python files have been taken from the standard library and are
 therefore
PSF licensed. Modifications on these files are dual licensed (both MIT and
PSF). These files are:

- parso/pgen2/*
- parso/tokenize.py
- parso/token.py
- test/test_pgen2.py

Also some test files under test/normalizer_issue_files have been copied from
https://github.com/PyCQA/pycodestyle (Expat License == MIT License).

--------------------------------------------------------------------------------
The MIT License (MIT)

Copyright (c) <2013-2017> <David Halter and others, see AUTHORS.txt>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015 Python Software Foundation; All Rights
 Reserved"
are retained in Python alone or in any derivative version prepared by
 Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
```

```
agrees to be bound by the terms and conditions of this License
Agreement.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            matplotlib-inline
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

Copyright (c) 2019-2022, IPython Development Team.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            traitlets
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

- Copyright (c) 2001-, IPython Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
```

```
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name         pexpect
License      ISC LICENSE
LicenseText  ISC LICENSE

    This license is approved by the OSI and FSF as GPL-compatible.
        http://opensource.org/licenses/isc-license.txt

    Copyright (c) 2013-2014, Pexpect development team
    Copyright (c) 2012, Noah Spurrier <noah@noah.org>

    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
    OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            ptyprocess
License Text    ISC LICENSE

    This license is approved by the OSI and FSF as GPL-compatible.
        http://opensource.org/licenses/isc-license.txt

    Copyright (c) 2013-2014, Pexpect development team
    Copyright (c) 2012, Noah Spurrier <noah@noah.org>
```

```
    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
    OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            pickleshare
License         MIT License
License Text    The MIT License (MIT)

Copyright (c) 2016 Ville Vainio

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            prompt-toolkit
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright (c) 2014, Jonathan Slenders
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
```

```
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

* Neither the name of the {organization} nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name            wcwidth
License         MIT
License Text    The MIT License (MIT)

Copyright (c) 2014 Jeff Quast <contact@jeffquast.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

Markus Kuhn -- 2007-05-26 (Unicode 5.0)
```

```
Permission to use, copy, modify, and distribute this software
for any purpose and without fee is hereby granted. The author
disclaims all warranties with regard to this software.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            Pygments
License         BSD 2-Clause "Simplified" License
License Text    Copyright (c) 2006-2022 by the respective authors (see
 AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            setuptools
License         MIT License
License Text    Permission is hereby granted, free of charge, to any person
 obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
```

```
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          ipywidgets
License       BSD 3-Clause "New" or "Revised" License
License Text  Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          ipykernel
License       BSD 3-Clause "New" or "Revised" License
License Text  This project is licensed under the terms of the Modified BSD
 License (also known as New or Revised or 3-Clause BSD), as follows:

Copyright (c) 2015, IPython Development Team
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
```

```
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the IPython Development Team nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            debugpy
License Text        debugpy

    Copyright (c) Microsoft Corporation
    All rights reserved.

    MIT License

    Permission is hereby granted, free of charge, to any person obtaining a
 copy of
    this software and associated documentation files (the "Software"), to
 deal in
    the Software without restriction, including without limitation the
 rights to
    use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
    the Software, and to permit persons to whom the Software is furnished to
 do so,
    subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
    FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR
    COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
    IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
    CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 SOFTWARE.
```

```
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            jupyter_client
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            jupyter_core
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            nest-asyncio
License         BSD 2-Clause "Simplified" License
License Text    BSD 2-Clause License

Copyright (c) 2018-2020, Ewald de Wit
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
```

```
------------
 ------------------------------------------------------------------------------
Name            pyzmq
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

Copyright (c) 2009-2012, Brian Granger, Min Ragan-Kelley

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            tornado
License         Apache License 2.0
License Text
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


------------
 ------------------------------------------------------------------------------
```

```
------------
 ---------------------------------------------------------------------------
Name          packaging
License       Apache License; BSD License
License Text

BSD License
-----------
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
--------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
```

```
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
```

```
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            psutil
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
```

```
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            jupyterlab-widgets
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ----------------------------------------------------------------------------
------------
 ----------------------------------------------------------------------------
Name          widgetsnbextension
License       BSD 3-Clause "New" or "Revised" License
License Text  BSD-3-Clause license
Copyright (c) 2015-2022, conda-forge contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  3. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived from
     this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name            jsonpatch
License Text    Copyright (c) 2011 Stefan Kögl <stefan@skoegl.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name            jsonpointer
License Text    Copyright (c) 2011 Stefan Kögl <stefan@skoegl.net>
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            makefun
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

Copyright (c) 2019-2022, Sylvain Marié, Schneider Electric Industries
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            marshmallow
License         MIT License
License Text    Copyright 2021 Steven Loria and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            mistune
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright (c) 2014, Hsiaoming Yang

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the creator nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
```

```
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          nbformat
License       BSD 3-Clause License
License Text  BSD 3-Clause License

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------------
Name            fastjsonschema
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright (c) 2018, Michal Horejsek
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
```

```
are permitted provided that the following conditions are met:

  Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

  Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

  Neither the name of the {organization} nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          notebook
License       BSD 3-Clause "New" or "Revised" License
License Text BSD 3-Clause License

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
```

```
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            argon2-cffi
License         MIT License
License Text    The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the argon2-cffi contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            argon2-cffi-bindings
License         MIT License
License Text    The MIT License (MIT)

Copyright (c) 2021 Hynek Schlawack

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          ipython-genutils
License       BSD 3-Clause "New" or "Revised" License
License Text  This project is licensed under the terms of the Modified BSD
 License (also known as New or Revised or 3-Clause BSD), as follows:

Copyright (c) 2001-, IPython Development Team
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the IPython Development Team nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

About the IPython Development Team
The IPython Development Team is the set of all contributors to the IPython
 project. This includes all of the IPython subprojects.

The core team that coordinates development on GitHub can be found here:
 https://github.com/jupyter/.
```

```
Our Copyright Policy
IPython uses a shared copyright model. Each contributor maintains copyright
 over their contributions to IPython. But, it is important to note that
 these contributions are typically only changes to the repositories. Thus,
 the IPython source code, in its entirety is not the copyright of any
 single person or institution. Instead, it is the collective copyright
 of the entire IPython Development Team. If individual contributors want
 to maintain a record of what changes/contributions they have specific
 copyright on, they should indicate their copyright in the commit message of
 the change, when they commit the change to one of the IPython repositories.

With this in mind, the following banner should be used in any source code
 file to indicate the copyright and license terms:

# Copyright (c) IPython Development Team.
# Distributed under the terms of the Modified BSD License.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            nbclassic
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

Copyright (c) 2020 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
```

```
------------
 ------------------------------------------------------------------------------
Name            jupyter-server
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            anyio
License         MIT License
License Text    The MIT License (MIT)

Copyright (c) 2018 Alex Grönholm

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            idna
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

Copyright (c) 2013-2022, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          sniffio
License       The MIT License (MIT)
License Text  The MIT License (MIT)
```

```
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          nbconvert
License       BSD 3-Clause "New" or "Revised" License
License Text  BSD 3-Clause License

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------
 ---------------------------------------------------------------------------
```

```
------------
 ---------------------------------------------------------------------------
Name          beautifulsoup4
License       The MIT License (MIT)
LicenseText   The MIT License (MIT)

Copyright (c) 2016 Avtandil Kikabidze

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name            soupsieve
License         MIT License
License Text    MIT License

Copyright (c) 2018 - 2023 Isaac Muse <isaacmuse@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            bleach
License         Apache License 2.0
Notice          Bleach was originally written and maintained by James Socol
 and various
contributors within and without the Mozilla Corporation and Foundation.

It is currently maintained by Will Kahn-Greene, Greg Guthe, and Jon
 Dufresne.

Maintainers:

- Will Kahn-Greene <willkg@mozilla.com>
- Greg Guthe <gguthe@mozilla.com>
- Jon Dufresne <jon.dufresne@gmail.com>

Maintainer emeritus:

- Jannis Leidel <jleidel@mozilla.com>
- James Socol <me@jamessocol.com>

Contributors:

- Adam Lofts
- Adrian "ThiefMaster"
- Alek
- Alex Defsen
- Alex Ehlke
- Alexandre Macabies
- Alexandr N. Zamaraev
- Alireza Savand
- Andreas Malecki
- Andy Freeland
- Antoine Leclair
- Anton Backer
- Anton Kovalyov
- askoretskiy
- Benjamin Peterson
- Chad Birch
- CheesyFeet
- Chris Beaven
- Dan Gayle
- dave-shawley
- dbxnr
- Erik Rose
- Gaurav Dadhania
- Geoffrey Sneddon
- Google Autofuzz Team
- Greg Guthe
- hugovk
- Istvan Albert
- Jaime Irurzun
- James Socol
- Jannis Leidel
- Janusz Kamieński
- Jeff Balogh
- Jonathan Vanasco
- Jon Dufresne
- Lee, Cheon-il
- Les Orchard
- Lorenz Schori
```

```
- Luis Nell
- Marc Abramowitz
- Marc DM
- Mark Lee
- Mark Paschal
- mdxs
- mitar
- Nguyễn Gia Phong
- Nikita Sobolev
- nikolas
- Oh Jinkyun
- Paul Craciunoiu
- Ricky Rosario
- Ryan Niemeyer
- Sam Sneddon
- Sébastien Fievet
- sedrubal
- Stephane Blondon
- Stu Cox
- Thomas Grainger
- Tim Dumol
- Timothy Fitz
- Tim Gates
- Vadim Kotov
- Vitaly Volkov
- Will Kahn-Greene
- Zoltán
- zyegfryed


------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            webencodings
License         BSD License
License Text    Copyright (c) 2012 by Simon Sapin.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            defusedxml
License Text    PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python
alone or in any derivative version, provided, however, that PSF's
License Agreement and PSF's notice of copyright, i.e., "Copyright (c)
2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
```

```
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            jupyterlab-pygments
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            nbclient
License         BSD 3-Clause "New" or "Revised" License
License Text    BSD 3-Clause License

Copyright (c) 2020-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
```

```
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            pandocfilters
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright (c) 2013, John MacFarlane
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 - Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

 - Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 - Neither the name of John Macfarlane nor the names of its contributors may
   be used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
```

```
------------
 ---------------------------------------------------------------------------
Name          tinycss2
License       BSD 3-Clause "New" or "Revised" License
License Text  BSD 3-Clause License

Copyright (c) 2013-2020, Simon Sapin and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name            prometheus-client
License         Apache License 2.0
Notice          The Prometheus systems and service monitoring server
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (https://soundcloud.com/).


The following components are included in this product:

Bootstrap
https://getbootstrap.com
Copyright 2011-2014 Twitter, Inc.
Licensed under the MIT License

bootstrap3-typeahead.js
https://github.com/bassjobsen/Bootstrap-3-Typeahead
Original written by @mdo and @fat
Copyright 2014 Bass Jobsen @bassjobsen
Licensed under the Apache License, Version 2.0
```

```
fuzzy
https://github.com/mattyork/fuzzy
Original written by @mattyork
Copyright 2012 Matt York
Licensed under the MIT License

bootstrap-datetimepicker.js
https://github.com/Eonasdan/bootstrap-datetimepicker
Copyright 2015 Jonathan Peterson (@Eonasdan)
Licensed under the MIT License

moment.js
https://github.com/moment/moment/
Copyright JS Foundation and other contributors
Licensed under the MIT License

Rickshaw
https://github.com/shutterstock/rickshaw
Copyright 2011-2014 by Shutterstock Images, LLC
See https://github.com/shutterstock/rickshaw/blob/master/LICENSE for license
 details

mustache.js
https://github.com/janl/mustache.js
Copyright 2009 Chris Wanstrath (Ruby)
Copyright 2010-2014 Jan Lehnardt (JavaScript)
Copyright 2010-2015 The mustache.js community
Licensed under the MIT License

jQuery
https://jquery.org
Copyright jQuery Foundation and other contributors
Licensed under the MIT License

Protocol Buffers for Go with Gadgets
https://github.com/gogo/protobuf/
Copyright (c) 2013, The GoGo Authors.
See source code for license details.

Go support for leveled logs, analogous to
https://code.google.com/p/google-glog/
Copyright 2013 Google Inc.
Licensed under the Apache License, Version 2.0

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0

DNS library in Go
https://miek.nl/2014/august/16/go-dns-package/
Copyright 2009 The Go Authors, 2011 Miek Gieben
See https://github.com/miekg/dns/blob/master/LICENSE for license details.

LevelDB key/value database in Go
https://github.com/syndtr/goleveldb
Copyright 2012 Suryandaru Triandana
See https://github.com/syndtr/goleveldb/blob/master/LICENSE for license
 details.

gosnappy - a fork of code.google.com/p/snappy-go
https://github.com/syndtr/gosnappy
Copyright 2011 The Snappy-Go Authors
```

```
See https://github.com/syndtr/gosnappy/blob/master/LICENSE for license
 details.

go-zookeeper - Native ZooKeeper client for Go
https://github.com/samuel/go-zookeeper
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
See https://github.com/samuel/go-zookeeper/blob/master/LICENSE for license
 details.

Time series compression algorithm from Facebook's Gorilla paper
https://github.com/dgryski/go-tsz
Copyright (c) 2015,2016 Damian Gryski <damian@gryski.com>
See https://github.com/dgryski/go-tsz/blob/master/LICENSE for license
 details.

The Go programming language
https://go.dev/
Copyright (c) 2009 The Go Authors
See https://go.dev/LICENSE for license details.

The Codicon icon font from Microsoft
https://github.com/microsoft/vscode-codicons
Copyright (c) Microsoft Corporation and other contributors
See https://github.com/microsoft/vscode-codicons/blob/main/LICENSE for
 license details.

We also use code from a large number of npm packages. For details, see:
- https://github.com/prometheus/prometheus/blob/main/web/ui/react-app/
package.json
- https://github.com/prometheus/prometheus/blob/main/web/ui/react-app/
package-lock.json
- The individual package licenses as copied from the node_modules directory
 can be found in
  the npm_licenses.tar.bz2 archive in release tarballs and Docker images.


------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            Send2Trash
License         BSD 3-Clause "New" or "Revised" License
License Text    Copyright (c) 2017, Virgil Dupras
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    * Neither the name of Hardcoded Software Inc. nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
```

```
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            terminado
License         BSD 2-Clause "Simplified" License
License Text    BSD 2-Clause License

- Copyright (c) 2014-, Jupyter development team
- Copyright (c) 2014, Ramalingam Saravanan <sarava@sarava.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            websocket-client
License         Apache License 2.0
License Text
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2022 engn33r

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name         notebook_shim
License      BSD 3-Clause License
LicenseText  BSD 3-Clause License

Copyright (c) 2022 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            pydantic
License         MIT License
License Text    The MIT License (MIT)

Copyright (c) 2017 - 2022 Samuel Colvin and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
```

```
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            pyparsing
License         MIT License
License Text    Permission is hereby granted, free of charge, to any person
 obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            requests
License         Apache License 2.0
License Text
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

Requests
Copyright 2019 Kenneth Reitz


------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          certifi
License       Mozilla Public License 2.0 (MPL 2.0)
License Text  This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.
```

```
***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $


Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
```

```
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
```

```
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
```

```
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
```

```
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
```

```
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            charset-normalizer
License         MIT License
License Text    MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          urllib3
License       MIT License; Mozilla Public License 2.0 (MPL 2.0)
License Text  MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.

------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          ruamel.yaml.txt
License       The MIT License (MIT)
License Text  The MIT License (MIT)

 Copyright (c) 2014-2021 Anthon van der Neut, Ruamel bvba

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
 SOFTWARE.

------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name          ruamel.yaml
License       The MIT License (MIT)
License Text   The MIT License (MIT)

 Copyright (c) 2019-2021 Anthon van der Neut, Ruamel bvba

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
 SOFTWARE.

------------
 ---------------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------------
Name         scipy
License      BSD License
LicenseText  Copyright (c) 2001-2002 Enthought, Inc. 2003-2022, SciPy
 Developers.
             All rights reserved.

             Redistribution and use in source and binary forms, with or
 without
             modification, are permitted provided that the following
 conditions
             are met:

             1. Redistributions of source code must retain the above
 copyright
                notice, this list of conditions and the following
 disclaimer.

             2. Redistributions in binary form must reproduce the above
                copyright notice, this list of conditions and the following
                disclaimer in the documentation and/or other materials
 provided
                with the distribution.

             3. Neither the name of the copyright holder nor the names of
 its
                contributors may be used to endorse or promote products
 derived
                from this software without specific prior written
 permission.

             THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
             "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
             LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR
             A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
             OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
             SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 NOT
             LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
 OF USE,
             DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY
             THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT
             (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 THE USE
             OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.

             ----
```

```
             This binary distribution of SciPy also bundles the following
software:


             Name: OpenBLAS
             Files: .libs/libopenb*.so
             Description: bundled as a dynamically linked library
             Availability: https://github.com/xianyi/OpenBLAS/
             License: 3-clause BSD
               Copyright (c) 2011-2014, The OpenBLAS Project
               All rights reserved.

               Redistribution and use in source and binary forms, with or
without
               modification, are permitted provided that the following
conditions are
               met:

                  1. Redistributions of source code must retain the above
copyright
                     notice, this list of conditions and the following
disclaimer.

                  2. Redistributions in binary form must reproduce the above
copyright
                     notice, this list of conditions and the following
disclaimer in
                     the documentation and/or other materials provided with
the
                     distribution.
                  3. Neither the name of the OpenBLAS project nor the names
of
                     its contributors may be used to endorse or promote
products
                     derived from this software without specific prior
written
                     permission.

               THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS"
               AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE
               IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE
               ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE
               LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL
               DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR
               SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER
               CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY,
               OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
WAY OUT OF THE
               USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.


             Name: LAPACK
             Files: .libs/libopenb*.so
             Description: bundled in OpenBLAS
             Availability: https://github.com/xianyi/OpenBLAS/
```

```
            License 3-clause BSD
              Copyright (c) 1992-2013 The University of Tennessee and The
University
                                      of Tennessee Research Foundation.
All rights
                                      reserved.
              Copyright (c) 2000-2013 The University of California
Berkeley. All
                                      rights reserved.
              Copyright (c) 2006-2013 The University of Colorado Denver.
All rights
                                      reserved.

              $COPYRIGHT$

              Additional copyrights may follow

              $HEADER$

              Redistribution and use in source and binary forms, with or
without
              modification, are permitted provided that the following
conditions are
              met:

              - Redistributions of source code must retain the above
copyright
                notice, this list of conditions and the following
disclaimer.

              - Redistributions in binary form must reproduce the above
copyright
                notice, this list of conditions and the following
disclaimer listed
                in this license in the documentation and/or other materials
                provided with the distribution.

              - Neither the name of the copyright holders nor the names of
its
                contributors may be used to endorse or promote products
derived from
                this software without specific prior written permission.

              The copyright holders provide no reassurances that the source
code
              provided does not infringe any patent, copyright, or any
other
              intellectual property rights of third parties.  The copyright
holders
              disclaim any liability to any recipient for claims brought
against
              recipient by any third party for infringement of that parties
              intellectual property rights.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR
              A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT
              OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
```

```
               SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT
               LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE,
               DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY
               THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT
               (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE
               OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

            ----


--------------------------------------------------------------------------------
           LICENSES_bundled.txt

--------------------------------------------------------------------------------

           The SciPy repository and source distributions bundle a number of
libraries that
           are compatibly licensed.  We list these here.


           Name: Decorator
           Files: scipy/_lib/decorator.py
           License: 2-clause BSD
             For details, see the header inside scipy/_lib/decorator.py

           Name: ID
           Files: scipy/linalg/src/id_dist/*
           License: 3-clause BSD
             For details, see scipy/linalg/src/id_dist/doc/doc.tex

           Name: L-BFGS-B
           Files: scipy/optimize/lbfgsb/*
           License: BSD license
             For details, see scipy/optimize/lbfgsb/README

           Name: LAPJVsp
           Files: scipy/sparse/csgraph/_matching.pyx
           License: 3-clause BSD
           Copyright 1987-, A. Volgenant/Amsterdam School of Economics,
                            University of Amsterdam

             Distributed under 3-clause BSD license with permission from
             University of Amsterdam.

             Redistribution and use in source and binary forms, with or
without
             modification, are permitted provided that the following
conditions are met:

             1. Redistributions of source code must retain the above
copyright notice,
                this list of conditions and the following disclaimer.

             2. Redistributions in binary form must reproduce the above
copyright notice,
                this list of conditions and the following disclaimer in the
documentation
               and/or other materials provided with the distribution.
```

```
              3. Neither the name of the copyright holder nor the names of
 its contributors
                 may be used to endorse or promote products derived from
 this software
                without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS"
              AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE
              IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE
              ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
 CONTRIBUTORS BE
              LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR
              CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF
              SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS
              INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
              CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE)
              ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE
              POSSIBILITY OF SUCH DAMAGE.


            Name: SuperLU
            Files: scipy/sparse/linalg/dsolve/SuperLU/*
            License: 3-clause BSD
              For details, see scipy/sparse/linalg/dsolve/SuperLU/
License.txt

            Name: ARPACK
            Files: scipy/sparse/linalg/eigen/arpack/ARPACK/*
            License: 3-clause BSD
              For details, see scipy/sparse/linalg/eigen/arpack/ARPACK/
COPYING

            Name: Qhull
            Files: scipy/spatial/qhull/*
            License: Qhull license (BSD-like)
              For details, see scipy/spatial/qhull/COPYING.txt

            Name: Cephes
            Files: scipy/special/cephes/*
            License: 3-clause BSD
              Distributed under 3-clause BSD license with permission from
 the author,
              see https://lists.debian.org/debian-legal/2004/12/
msg00295.html

              Cephes Math Library Release 2.8:  June, 2000
              Copyright 1984, 1995, 2000 by Stephen L. Moshier

              This software is derived from the Cephes Math Library and is
              incorporated herein by permission of the author.

              All rights reserved.
```

```
             Redistribution and use in source and binary forms, with or
without
             modification, are permitted provided that the following
conditions are met:
                 * Redistributions of source code must retain the above
copyright
                   notice, this list of conditions and the following
disclaimer.
                 * Redistributions in binary form must reproduce the above
copyright
                   notice, this list of conditions and the following
disclaimer in the
                   documentation and/or other materials provided with the
distribution.
                 * Neither the name of the <organization> nor the
                   names of its contributors may be used to endorse or
promote products
                   derived from this software without specific prior
written permission.

             THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND
             ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED
             WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE
             DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR
ANY
             DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES
             (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES;
             LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND
             ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT
             (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE OF THIS
             SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

           Name: Faddeeva
           Files: scipy/special/Faddeeva.*
           License: MIT
             Copyright (c) 2012 Massachusetts Institute of Technology

             Permission is hereby granted, free of charge, to any person
obtaining
             a copy of this software and associated documentation files
(the
             "Software"), to deal in the Software without restriction,
including
             without limitation the rights to use, copy, modify, merge,
publish,
             distribute, sublicense, and/or sell copies of the Software,
and to
             permit persons to whom the Software is furnished to do so,
subject to
             the following conditions:

             The above copyright notice and this permission notice shall be
             included in all copies or substantial portions of the
Software.
```

```
              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND,
              EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
 WARRANTIES OF
              MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
              NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
              LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
 AN ACTION
              OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 CONNECTION
              WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 SOFTWARE.

            Name: qd
            Files: scipy/special/cephes/dd_*.[ch]
            License: modified BSD license ("BSD-LBNL-License.doc")
              This work was supported by the Director, Office of Science,
 Division
              of Mathematical, Information, and Computational Sciences of
 the
              U.S. Department of Energy under contract numbers DE-
AC03-76SF00098 and
              DE-AC02-05CH11231.

              Copyright (c) 2003-2009, The Regents of the University of
 California,
              through Lawrence Berkeley National Laboratory (subject to
 receipt of
              any required approvals from U.S. Dept. of Energy) All rights
 reserved.

              1. Redistribution and use in source and binary forms, with or
              without modification, are permitted provided that the
 following
              conditions are met:

              (1) Redistributions of source code must retain the copyright
              notice, this list of conditions and the following disclaimer.

              (2) Redistributions in binary form must reproduce the
 copyright
              notice, this list of conditions and the following disclaimer
 in
              the documentation and/or other materials provided with the
              distribution.

              (3) Neither the name of the University of California, Lawrence
              Berkeley National Laboratory, U.S. Dept. of Energy nor the
 names
              of its contributors may be used to endorse or promote products
              derived from this software without specific prior written
              permission.

              2. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
              "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
              LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR
              A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
              OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
```

```
              SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT
              LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE,
              DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY
              THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT
              (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

              3. You are under no obligation whatsoever to provide any bug
fixes,
              patches, or upgrades to the features, functionality or
performance of
              the source code ("Enhancements") to anyone; however, if you
choose to
              make your Enhancements available either publicly, or directly
to
              Lawrence Berkeley National Laboratory, without imposing a
separate
              written license agreement for such Enhancements, then you
hereby grant
              the following license: a non-exclusive, royalty-free perpetual
license
              to install, use, modify, prepare derivative works, incorporate
into
              other computer software, distribute, and sublicense such
enhancements
              or derivative works thereof, in binary and source code form.

            Name: pypocketfft
            Files: scipy/fft/_pocketfft/[pocketfft.h, pypocketfft.cxx]
            License: 3-Clause BSD
              For details, see scipy/fft/_pocketfft/LICENSE.md

            Name: uarray
            Files: scipy/_lib/uarray/*
            License: 3-Clause BSD
              For details, see scipy/_lib/uarray/LICENSE

            Name: ampgo
            Files: benchmarks/benchmarks/go_benchmark_functions/*.py
            License: MIT
              Functions for testing global optimizers, forked from the AMPGO
project,
              https://code.google.com/archive/p/ampgo

            Name: pybind11
            Files: no source files are included, however pybind11 binary
artifacts are
              included with every binary build of SciPy.
            License:
              Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All
rights reserved.

              Redistribution and use in source and binary forms, with or
without
              modification, are permitted provided that the following
conditions are met:
```

```
              1. Redistributions of source code must retain the above
 copyright notice, this
                 list of conditions and the following disclaimer.

              2. Redistributions in binary form must reproduce the above
 copyright notice,
                 this list of conditions and the following disclaimer in the
 documentation
                 and/or other materials provided with the distribution.

              3. Neither the name of the copyright holder nor the names of
 its contributors
                 may be used to endorse or promote products derived from
 this software
                 without specific prior written permission.

              THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS" AND
              ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED
              WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE
              DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
 CONTRIBUTORS BE LIABLE
              FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
              DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
              SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER
              CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
              OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
              OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.

            Name: HiGHS
            Files: scipy/optimize/_highs/*
            License: MIT
              For details, see scipy/optimize/_highs/LICENCE

            Name: Boost
            Files: scipy/_lib/boost_math/*
            License: Boost Software License - Version 1.0
              For details, see scipy/_lib/boost_math/LICENSE.txt

            Name: Biasedurn
            Files: scipy/stats/biasedurn/*
            License 3-Clause BSD
              For details, see scipy/stats/biasedurn/license.txt

            Name: UNU.RAN
            Files: scipy/_lib/unuran/*
            License 3-Clause BSD
              For details, see scipy/_lib/unuran/license.txt

            Name: NumPy
            Files: scipy/stats/_rcont/[logfactorial.h,logfactorial.c]
            License 3-Clause BSD
              For details, see header inside scipy/stats/_rcont/
logfactorial.h
              and scipy/stats/_rcont/logfactorial.c
```

```
--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
-----------------------------------------------------------------------------------------
            Name: Decorator
            License: 2-clause BSD
            Copyright (c) 2005-2015, Michele Simionato
            All rights reserved.

            Redistribution and use in source and binary forms, with or
 without
            modification, are permitted provided that the following
 conditions are
            met:

              Redistributions of source code must retain the above copyright
              notice, this list of conditions and the following disclaimer.
              Redistributions in bytecode form must reproduce the above
 copyright
              notice, this list of conditions and the following disclaimer
 in
              the documentation and/or other materials provided with the
              distribution.

            THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
            "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
 NOT
            LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR
            A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
            HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
            INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
            BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 LOSS
            OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 CAUSED AND
            ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
            TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 OF THE
            USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
            DAMAGE.

            Name: ID
            Files: scipy/linalg/src/id_dist/*
            License: 3-clause BSD
            Copyright (c) 2014 by P.-G. Martinsson, V. Rokhlin,
            Y. Shkolnisky, and M. Tygert.

            All rights reserved.

            Redistribution and use in source and binary forms, with or
 without
            modification, are permitted provided that the following
 conditions are
            met:


            * Redistributions of source code must retain the above copyright
            notice, this list of conditions, and the following disclaimer.
            * Redistributions in binary form must reproduce the above
 copyright
```

```
            notice, this list of conditions, and the following disclaimer in
 the
            documentation and/or other materials provided with the
 distribution.
            * None of the names of the copyright holders may be used to
 endorse
            or promote products derived from this software without specific
 prior
            written permission.

            THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND
 ANY
            EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
            IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR
            PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNERS
 BE
            LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR
            CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF
            SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
            BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY,
            WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE OR
            OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
 EVEN IF
            ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

            Name: L-BFGS-B
            License: BSD license
             """
            L-BFGS-B is a limited-memory quasi-Newton code for bound-
constrained
            optimization, i.e. for problems where the only constraints are
 of the
            form l<= x <= u.
            """

            This is a Python wrapper (using F2PY) written by David M. Cooke
            <cookedm@physics.mcmaster.ca> and released as version 0.9 on
 April 9, 2004.
            The wrapper was slightly modified by Joonas Paalasmaa for the
 3.0 version
            in March 2012.

            License of L-BFGS-B (Fortran code)
            ==================================
            The version included here (in lbfgsb.f) is 3.0 (released April
 25, 2011). It was
            written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal
 <nocedal@ece.nwu.edu>. It
            carries the following condition for use:

              """
              This software is freely available, but we expect that all
 publications
              describing work using this software, or all commercial
 products using it,
              quote at least one of the references given below. This
 software is released
              under the BSD License.
```

```
             References
               * R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory
 Algorithm for Bound
                 Constrained Optimization, (1995), SIAM Journal on
 Scientific and
                 Statistical Computing, 16, 5, pp. 1190-1208.
               * C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm
 778: L-BFGS-B,
                 FORTRAN routines for large scale bound constrained
 optimization (1997),
                 ACM Transactions on Mathematical Software, 23, 4, pp. 550
 - 560.
               * J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm
 778: L-BFGS-B,
                 FORTRAN routines for large scale bound constrained
 optimization (2011),
                 ACM Transactions on Mathematical Software, 38, 1.
             """

           The Python wrapper
           ===============
           This code uses F2PY (http://cens.ioc.ee/projects/f2py2e/) to
 generate
           the wrapper around the Fortran code.

           The Python code and wrapper are copyrighted 2004 by David M.
 Cooke
           <cookedm@physics.mcmaster.ca>.

           License for the Python wrapper
           ==========================
           Copyright (c) 2004 David M. Cooke <cookedm@physics.mcmaster.ca>

           Permission is hereby granted, free of charge, to any person
 obtaining a copy of
           this software and associated documentation files (the
 "Software"), to deal in
           the Software without restriction, including without limitation
 the rights to
           use, copy, modify, merge, publish, distribute, sublicense, and/
or sell copies
           of the Software, and to permit persons to whom the Software is
 furnished to do
           so, subject to the following conditions:

           The above copyright notice and this permission notice shall be
 included in all
           copies or substantial portions of the Software.

           THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR
           IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
           FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL THE
           AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
           LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM,
           OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
           SOFTWARE.
```

```
           Name: SuperLU
           License: 3-clause BSD
           Copyright (c) 2003, The Regents of the University of California,
through
           Lawrence Berkeley National Laboratory (subject to receipt of any
required
           approvals from U.S. Dept. of Energy)

           All rights reserved.

           Redistribution and use in source and binary forms, with or
without
           modification, are permitted provided that the following
conditions are met:

           (1) Redistributions of source code must retain the above
copyright notice,
           this list of conditions and the following disclaimer.
           (2) Redistributions in binary form must reproduce the above
copyright notice,
           this list of conditions and the following disclaimer in the
documentation
           and/or other materials provided with the distribution.
           (3) Neither the name of Lawrence Berkeley National Laboratory,
U.S. Dept. of
           Energy nor the names of its contributors may be used to endorse
or promote
           products derived from this software without specific prior
written permission.

           THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS
           IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO,
           THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR
           PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
           CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL,
           EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO,
           PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR
           PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF
           LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING
           NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS
           SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

           Name: ARPACK
           License: 3-clause BSD
           Pertains to ARPACK and P_ARPACK

           Copyright (c) 1996-2008 Rice University.
           Developed by D.C. Sorensen, R.B. Lehoucq, C. Yang, and K.
Maschhoff.
           All rights reserved.

           Arpack has been renamed to arpack-ng.
```

```
           Copyright (c) 2001-2011 - Scilab Enterprises
           Updated by Allan Cornet, Sylvestre Ledru.

           Copyright (c) 2010 - Jordi Gutiérrez Hermoso (Octave patch)

           Copyright (c) 2007 - Sébastien Fabbro (gentoo patch)

           Redistribution and use in source and binary forms, with or
without
           modification, are permitted provided that the following
conditions are
           met:

           - Redistributions of source code must retain the above copyright
             notice, this list of conditions and the following disclaimer.

           - Redistributions in binary form must reproduce the above
copyright
             notice, this list of conditions and the following disclaimer
listed
             in this license in the documentation and/or other materials
             provided with the distribution.

           - Neither the name of the copyright holders nor the names of its
             contributors may be used to endorse or promote products
derived from
             this software without specific prior written permission.

           THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS
           "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT
           LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR
           A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT
           OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
           SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
           LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE,
           DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY
           THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT
           (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE
           OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

           Name: Qhull
           License: Qhull license (BSD-like)
                                Qhull, Copyright (c) 1993-2019

                                        C.B. Barber
                                       Arlington, MA

                                           and

                 The National Science and Technology Research Center for
                  Computation and Visualization of Geometric Structures
                                  (The Geometry Center)
                                University of Minnesota
```

```
                                  email: qhull@qhull.org

           This software includes Qhull from C.B. Barber and The Geometry
Center.
           Qhull is copyrighted as noted above.  Qhull is free software and
may
           be obtained via http from www.qhull.org.  It may be freely
copied, modified,
           and redistributed under the following conditions:

           1. All copyright notices must remain intact in all files.

           2. A copy of this text file must be distributed along with any
copies
              of Qhull that you redistribute; this includes copies that you
have
              modified, or copies of programs or other software products
that
              include Qhull.

           3. If you modify Qhull, you must include a notice giving the
              name of the person performing the modification, the date of
              modification, and the reason for such modification.

           4. When distributing modified versions of Qhull, or other
software
              products that include Qhull, you must provide notice that the
original
              source code may be obtained as noted above.

           5. There is no warranty or other guarantee of fitness for Qhull,
it is
              provided solely "as is".  Bug reports or fixes may be sent to
              qhull_bug@qhull.org; the authors may or may not act on them
as
              they desire.


           Name: pypocketfft
           License: 3-Clause BSD
           Copyright (C) 2010-2019 Max-Planck-Society
           All rights reserved.

           Redistribution and use in source and binary forms, with or
without modification,
           are permitted provided that the following conditions are met:

           * Redistributions of source code must retain the above copyright
notice, this
             list of conditions and the following disclaimer.
           * Redistributions in binary form must reproduce the above
copyright notice, this
             list of conditions and the following disclaimer in the
documentation and/or
             other materials provided with the distribution.
           * Neither the name of the copyright holder nor the names of its
contributors may
             be used to endorse or promote products derived from this
software without
             specific prior written permission.

           THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND
```

```
            ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED
            WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE
            DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR
            ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES
            (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES;
            LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON
            ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT
            (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE OF THIS
            SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

            Name: uarray
            License: 3-Clause BSD

            Copyright (c) 2018, Quansight-Labs
            All rights reserved.

            Redistribution and use in source and binary forms, with or
without
            modification, are permitted provided that the following
conditions are met:

            * Redistributions of source code must retain the above copyright
notice, this
              list of conditions and the following disclaimer.

            * Redistributions in binary form must reproduce the above
copyright notice,
              this list of conditions and the following disclaimer in the
documentation
              and/or other materials provided with the distribution.

            * Neither the name of the copyright holder nor the names of its
              contributors may be used to endorse or promote products
derived from
              this software without specific prior written permission.

            THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS"
            AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE
            IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE
            DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE
            FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
            DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR
            SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER
            CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY,
            OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE
            OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
```

```
            Name: ampgo
            Files: benchmarks/benchmarks/go_benchmark_functions/*.py
            License: MIT
            Copyright 2013 Andrea Gavana
            Author: <andrea.gavana@gmail.com>
            Modifications 2014 Andrew Nelson
            <andyfaff@gmail.com>
            Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files (the
“Software”), to deal in the Software without restriction, including without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, subject to the following
conditions:

            The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

            THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.



            Name: HiGHS
            License: MIT
            Copyright (c) 2022 HiGHS

            Permission is hereby granted, free of charge, to any person
obtaining a copy
            of this software and associated documentation files (the
"Software"), to deal
            in the Software without restriction, including without
limitation the rights
            to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell
            copies of the Software, and to permit persons to whom the
Software is
            furnished to do so, subject to the following conditions:

            The above copyright notice and this permission notice shall be
included in all
            copies or substantial portions of the Software.

            THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR
            IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY,
            FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
EVENT SHALL THE
            AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER
            LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM,
            OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE
            SOFTWARE.

            Name: Boost
```

```
            License: Boost Software License - Version 1.0
            Boost Software License - Version 1.0 - August 17th, 2003

            Permission is hereby granted, free of charge, to any person or
organization
            obtaining a copy of the software and accompanying documentation
covered by
            this license (the "Software") to use, reproduce, display,
distribute,
            execute, and transmit the Software, and to prepare derivative
works of the
            Software, and to permit third-parties to whom the Software is
furnished to
            do so, all subject to the following:

            The copyright notices in the Software and this entire statement,
including
            the above license grant, this restriction and the following
disclaimer,
            must be included in all copies of the Software, in whole or in
part, and
            all derivative works of the Software, unless such copies or
derivative
            works are solely in the form of machine-executable object code
generated by
            a source language processor.

            THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR
            IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY,
            FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN
NO EVENT
            SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE
BE LIABLE
            FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR
OTHERWISE,
            ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
USE OR OTHER
            DEALINGS IN THE SOFTWARE.

            Name: Biasedurn
            Files: scipy/stats/biasedurn/*
            License 3-Clause BSD
            ---------- Forwarded message ---------
            From: Agner Fog <agner@agner.org>
            Date: Wed, Jul 22, 2020 at 8:54 PM
            Subject: Re: Add BiasedUrn to SciPy?
            To: Matt Haberland <mhaberla@calpoly.edu>
            Cc: Warren Weckesser <warren.weckesser@gmail.com>

            Dear Matt The C++ code for these distributions without binding
to the R project
            are available here:
            https://www.agner.org/random/stocc.zip
            You have my permission to use it in SciPy under the new BSD
license.
            Best regards,
            Agner Fog

            On 22/07/2020 17.05, Matt Haberland wrote:
            Hi Agner, I'm a maintainer of the Python scientific computing
library SciPy,
```

```
           and I'm working on improving the capabilities of our statistics
subpackage
           scipy.stats. We'd like to add both Fisher's and Wallenius'
noncentral
           hypergeometric distributions, but these look quite challenging
to implement.
           We found your BiasedUrn package, and we'd love to wrap it, but
we can't
           include GPL-3 licensed code under our BSD-new license. Would you
consider
           re-licensing BiasedUrn under a more permissive license, such as
BSD-new or
           MIT, so we can include it in SciPy?
           Thank you for considering it!
           Matt
           --
           Matt Haberland
           Assistant Professor
           BioResource and Agricultural Engineering
           08A-3K, Cal Poly



           Name: UNU.RAN
           License 3-Clause BSD
           BSD 3-Clause License

           Copyright (c) 2018, Quansight-Labs
           All rights reserved.

           Redistribution and use in source and binary forms, with or
without
           modification, are permitted provided that the following
conditions are met:

           * Redistributions of source code must retain the above copyright
notice, this
             list of conditions and the following disclaimer.

           * Redistributions in binary form must reproduce the above
copyright notice,
             this list of conditions and the following disclaimer in the
documentation
             and/or other materials provided with the distribution.

           * Neither the name of the copyright holder nor the names of its
             contributors may be used to endorse or promote products
derived from
             this software without specific prior written permission.

           THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS"
           AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE
           IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE
           DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE
           FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
           DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR
           SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER
```

```
            CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT LIABILITY,
            OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
            OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.



------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name          tqdm
License       MIT License; Mozilla Public License 2.0 (MPL 2.0)
License Text  `tqdm` is a product of collaborative work.
              Unless otherwise stated, all authors (see commit logs) retain
 copyright
              for their respective work, and release the work under the MIT
 licence
              (text below).

              Exceptions or notable authors are listed below
              in reverse chronological order:

              * files: *
                MPLv2.0 2015-2021 (c) Casper da Costa-Luis
                [casperdcl](https://github.com/casperdcl).
              * files: tqdm/_tqdm.py
                MIT 2016 (c) [PR #96] on behalf of Google Inc.
              * files: tqdm/_tqdm.py setup.py README.rst
 MANIFEST.in .gitignore
                MIT 2013 (c) Noam Yorav-Raphael, original author.

              [PR #96]: https://github.com/tqdm/tqdm/pull/96


              Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
              -----------------------------------------------

              This Source Code Form is subject to the terms of the
              Mozilla Public License, v. 2.0.
              If a copy of the MPL was not distributed with this project,
              You can obtain one at https://mozilla.org/MPL/2.0/.


              MIT License (MIT)
              -----------------

              Copyright (c) 2013 noamraph

              Permission is hereby granted, free of charge, to any person
 obtaining a copy of
              this software and associated documentation files (the
 "Software"), to deal in
              the Software without restriction, including without limitation
 the rights to
              use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of
              the Software, and to permit persons to whom the Software is
 furnished to do so,
              subject to the following conditions:
```

```
              The above copyright notice and this permission notice shall be
 included in all
              copies or substantial portions of the Software.

              THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
 KIND, EXPRESS OR
              IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS
              FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
 SHALL THE AUTHORS OR
              COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER
              IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
 OF OR IN
              CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name            tzlocal
License         MIT License
License Text    Copyright 2011-2017 Lennart Regebro

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------
Name            backports.zoneinfo
License         Apache License 2.0
License Text    Apache Software License 2.0

Copyright (c) 2020, Paul Ganssle (Google)

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            pytz-deprecation-shim
License         Apache License 2.0
License Text    Apache Software License 2.0

Copyright (c) 2020, Paul Ganssle (Google)

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
Name            tzdata
License         Apache License 2.0
License Text    Copyright (c) 2014 Lau Taarnskov
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
```

```
------------
 ------------------------------------------------------------------------------
Licenses
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------
------------
 ------------------------------------------------------------------------------

License Name     Apache License 2.0
License Text                            Apache License
                                   Version 2.0, January 2004
                                http://www.apache.org/licenses/

           TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

           1. Definitions.

              "License" shall mean the terms and conditions for use,
 reproduction,
              and distribution as defined by Sections 1 through 9 of this
 document.

              "Licensor" shall mean the copyright owner or entity authorized
 by
              the copyright owner that is granting the License.

              "Legal Entity" shall mean the union of the acting entity and
 all
              other entities that control, are controlled by, or are under
 common
              control with that entity. For the purposes of this definition,
              "control" means (i) the power, direct or indirect, to cause
 the
              direction or management of such entity, whether by contract or
              otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
              outstanding shares, or (iii) beneficial ownership of such
 entity.

              "You" (or "Your") shall mean an individual or Legal Entity
              exercising permissions granted by this License.

              "Source" form shall mean the preferred form for making
 modifications,
              including but not limited to software source code,
 documentation
              source, and configuration files.

              "Object" form shall mean any form resulting from mechanical
              transformation or translation of a Source form, including but
              not limited to compiled object code, generated documentation,
              and conversions to other media types.

              "Work" shall mean the work of authorship, whether in Source or
              Object form, made available under the License, as indicated by
 a
              copyright notice that is included in or attached to the work
              (an example is provided in the Appendix below).
```

```
              "Derivative Works" shall mean any work, whether in Source or
Object
              form, that is based on (or derived from) the Work and for
which the
              editorial revisions, annotations, elaborations, or other
modifications
              represent, as a whole, an original work of authorship. For the
purposes
              of this License, Derivative Works shall not include works that
remain
              separable from, or merely link (or bind by name) to the
interfaces of,
              the Work and Derivative Works thereof.

              "Contribution" shall mean any work of authorship, including
              the original version of the Work and any modifications or
additions
              to that Work or Derivative Works thereof, that is
intentionally
              submitted to Licensor for inclusion in the Work by the
copyright owner
              or by an individual or Legal Entity authorized to submit on
behalf of
              the copyright owner. For the purposes of this definition,
"submitted"
              means any form of electronic, verbal, or written communication
sent
              to the Licensor or its representatives, including but not
limited to
              communication on electronic mailing lists, source code control
systems,
              and issue tracking systems that are managed by, or on behalf
of, the
              Licensor for the purpose of discussing and improving the Work,
but
              excluding communication that is conspicuously marked or
otherwise
              designated in writing by the copyright owner as "Not a
Contribution."

              "Contributor" shall mean Licensor and any individual or Legal
Entity
              on behalf of whom a Contribution has been received by Licensor
and
              subsequently incorporated within the Work.

          2. Grant of Copyright License. Subject to the terms and
conditions of
              this License, each Contributor hereby grants to You a
perpetual,
              worldwide, non-exclusive, no-charge, royalty-free, irrevocable
              copyright license to reproduce, prepare Derivative Works of,
              publicly display, publicly perform, sublicense, and distribute
the
              Work and such Derivative Works in Source or Object form.

          3. Grant of Patent License. Subject to the terms and conditions
of
              this License, each Contributor hereby grants to You a
perpetual,
              worldwide, non-exclusive, no-charge, royalty-free, irrevocable
              (except as stated in this section) patent license to make,
have made,
```

```
              use, offer to sell, sell, import, and otherwise transfer the
Work,
              where such license applies only to those patent claims
licensable
              by such Contributor that are necessarily infringed by their
              Contribution(s) alone or by combination of their
Contribution(s)
              with the Work to which such Contribution(s) was submitted. If
You
              institute patent litigation against any entity (including a
              cross-claim or counterclaim in a lawsuit) alleging that the
Work
              or a Contribution incorporated within the Work constitutes
direct
              or contributory patent infringement, then any patent licenses
              granted to You under this License for that Work shall
terminate
              as of the date such litigation is filed.

          4. Redistribution. You may reproduce and distribute copies of the
              Work or Derivative Works thereof in any medium, with or
without
              modifications, and in Source or Object form, provided that You
              meet the following conditions:

              (a) You must give any other recipients of the Work or
                  Derivative Works a copy of this License; and

              (b) You must cause any modified files to carry prominent
notices
                  stating that You changed the files; and

              (c) You must retain, in the Source form of any Derivative
Works
                  that You distribute, all copyright, patent, trademark, and
                  attribution notices from the Source form of the Work,
                  excluding those notices that do not pertain to any part of
                  the Derivative Works; and

              (d) If the Work includes a "NOTICE" text file as part of its
                  distribution, then any Derivative Works that You
distribute must
                  include a readable copy of the attribution notices
contained
                  within such NOTICE file, excluding those notices that do
not
                  pertain to any part of the Derivative Works, in at least
one
                  of the following places: within a NOTICE text file
distributed
                  as part of the Derivative Works; within the Source form or
                  documentation, if provided along with the Derivative
Works; or,
                  within a display generated by the Derivative Works, if and
                  wherever such third-party notices normally appear. The
contents
                  of the NOTICE file are for informational purposes only and
                  do not modify the License. You may add Your own
attribution
                  notices within Derivative Works that You distribute,
alongside
                  or as an addendum to the NOTICE text from the Work,
provided
```

```
                    that such additional attribution notices cannot be
construed
                    as modifying the License.

                You may add Your own copyright statement to Your modifications
and
                may provide additional or different license terms and
conditions
                for use, reproduction, or distribution of Your modifications,
or
                for any such Derivative Works as a whole, provided Your use,
                reproduction, and distribution of the Work otherwise complies
with
                the conditions stated in this License.

            5. Submission of Contributions. Unless You explicitly state
otherwise,
                any Contribution intentionally submitted for inclusion in the
Work
                by You to the Licensor shall be under the terms and conditions
of
                this License, without any additional terms or conditions.
                Notwithstanding the above, nothing herein shall supersede or
modify
                the terms of any separate license agreement you may have
executed
                with Licensor regarding such Contributions.

            6. Trademarks. This License does not grant permission to use the
trade
                names, trademarks, service marks, or product names of the
Licensor,
                except as required for reasonable and customary use in
describing the
                origin of the Work and reproducing the content of the NOTICE
file.

            7. Disclaimer of Warranty. Unless required by applicable law or
                agreed to in writing, Licensor provides the Work (and each
                Contributor provides its Contributions) on an "AS IS" BASIS,
                WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
or
                implied, including, without limitation, any warranties or
conditions
                of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
                PARTICULAR PURPOSE. You are solely responsible for determining
the
                appropriateness of using or redistributing the Work and assume
any
                risks associated with Your exercise of permissions under this
License.

            8. Limitation of Liability. In no event and under no legal
theory,
                whether in tort (including negligence), contract, or
otherwise,
                unless required by applicable law (such as deliberate and
grossly
                negligent acts) or agreed to in writing, shall any Contributor
be
                liable to You for damages, including any direct, indirect,
special,
                incidental, or consequential damages of any character arising
as a
```

```
              result of this License or out of the use or inability to use
 the
              Work (including but not limited to damages for loss of
 goodwill,
              work stoppage, computer failure or malfunction, or any and all
              other commercial damages or losses), even if such Contributor
              has been advised of the possibility of such damages.

           9. Accepting Warranty or Additional Liability. While
 redistributing
              the Work or Derivative Works thereof, You may choose to offer,
              and charge a fee for, acceptance of support, warranty,
 indemnity,
              or other liability obligations and/or rights consistent with
 this
              License. However, in accepting such obligations, You may act
 only
              on Your own behalf and on Your sole responsibility, not on
 behalf
              of any other Contributor, and only if You agree to indemnify,
              defend, and hold each Contributor harmless for any liability
              incurred by, or claims asserted against, such Contributor by
 reason
              of your accepting any such warranty or additional liability.

           END OF TERMS AND CONDITIONS

           APPENDIX: How to apply the Apache License to your work.

              To apply the Apache License to your work, attach the following
              boilerplate notice, with the fields enclosed by brackets "{}"
              replaced with your own identifying information. (Don't include
              the brackets!)  The text should be enclosed in the appropriate
              comment syntax for the file format. We also recommend that a
              file or class name and description of purpose be included on
 the
              same "printed page" as the copyright notice for easier
              identification within third-party archives.

           Copyright {yyyy} {name of copyright owner}

           Licensed under the Apache License, Version 2.0 (the "License");
           you may not use this file except in compliance with the License.
           You may obtain a copy of the License at

               http://www.apache.org/licenses/LICENSE-2.0

           Unless required by applicable law or agreed to in writing,
 software
           distributed under the License is distributed on an "AS IS" BASIS,
           WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
           See the License for the specific language governing permissions
 and
           limitations under the License.

------------
 ---------------------------------------------------------------------------
------------
 ---------------------------------------------------------------------------

License Name     MIT
License Text
```

```
          Permission is hereby granted, free of charge, to any person
 obtaining a copy of this software and associated documentation files (the
 “Software”), to deal in the Software without restriction, including without
 limitation the rights to use, copy, modify, merge, publish, distribute,
 sublicense, and/or sell copies of the Software, and to permit persons
 to whom the Software is furnished to do so, subject to the following
 conditions:

   The above copyright notice and this permission notice shall be included
 in all copies or substantial portions of the Software.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Gruntwork, Inc / Component(s): terragrunt 0.19.11

```
The MIT License (MIT)
Copyright (c) 2016 Gruntwork, LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Guillaume J. Charmes / Component(s): kr/pty 1.0.0

```
Copyright (c) 2011 Keith Rarick

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall
be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
```

```
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Gustavo Niemeyer / Component(s): python-dateutil 2.5.3

```
Copyright (c) 2003-2011 - Gustavo Niemeyer
Copyright (c) 2012-2014 - Tomi Pieviläinen
Copyright (c) 2014 - Yaron de Leeuw

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

H to J

Provider: h2database.com / Component(s): H2 2.2.224

```
H2 is dual licensed and available under the MPL 2.0 (Mozilla Public License
Version 2.0) or under the EPL 1.0 (Eclipse Public License).

--------------------------------------------------------------------------------

Mozilla Public License, version 2.0

1. Definitions

    1.1. “Contributor”
    means each individual or legal entity that creates, contributes to the
    creation of, or owns Covered Software.

    1.2. “Contributor Version”
    means the combination of the Contributions of others (if any) used by a
```

```
    Contributor and that particular Contributor’s Contribution.

    1.3. “Contribution”
    means Covered Software of a particular Contributor.

    1.4. “Covered Software”
    means Source Code Form to which the initial Contributor has attached the
    notice in Exhibit A, the Executable Form of such Source Code Form,
    and Modifications of such Source Code Form, in each case
    including portions thereof.

    1.5. “Incompatible With Secondary Licenses”
    means

        a. that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or

        b. that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the terms
        of a Secondary License.

    1.6. “Executable Form”
    means any form of the work other than Source Code Form.

    1.7. “Larger Work”
    means a work that combines Covered Software with other material,
    in a separate file or files, that is not Covered Software.

    1.8. “License”
    means this document.

    1.9. “Licensable”
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently,
    any and all of the rights conveyed by this License.

    1.10. “Modifications”
    means any of the following:

        a. any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered Software;
or

        b. any new file in Source Code Form that contains any Covered
Software.

    1.11. “Patent Claims” of a Contributor
    means any patent claim(s), including without limitation, method,
process,
    and apparatus claims, in any patent Licensable by such Contributor that
    would be infringed, but for the grant of the License, by the making,
    using, selling, offering for sale, having made, import, or transfer of
    either its Contributions or its Contributor Version.

    1.12. “Secondary License”
    means either the GNU General Public License, Version 2.0, the
    GNU Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those licenses.

    1.13. “Source Code Form”
    means the form of the work preferred for making modifications.

    1.14. “You” (or “Your”)
```

```
    means an individual or a legal entity exercising rights under this
 License.
    For legal entities, "You" includes any entity that controls,
    is controlled by, or is under common control with You. For purposes of
    this definition, "control" means (a) the power, direct or indirect,
    to cause the direction or management of such entity, whether by contract
    or otherwise, or (b) ownership of more than fifty percent (50%) of the
    outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

    2.1. Grants
    Each Contributor hereby grants You a world-wide, royalty-free,
    non-exclusive license:

        a. under intellectual property rights (other than patent or
 trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications,
        or as part of a Larger Work; and

        b. under Patent Claims of such Contributor to make, use, sell,
        offer for sale, have made, import, and otherwise transfer either
        its Contributions or its Contributor Version.

    2.2. Effective Date
    The licenses granted in Section 2.1 with respect to any Contribution
    become effective for each Contribution on the date the Contributor
    first distributes such Contribution.

    2.3. Limitations on Grant Scope
    The licenses granted in this Section 2 are the only rights granted
    under this License. No additional rights or licenses will be implied
    from the distribution or licensing of Covered Software under this
 License.
    Notwithstanding Section 2.1(b) above, no patent license is granted
    by a Contributor:

        a. for any code that a Contributor has removed from
        Covered Software; or

        b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its
        Contributor Version); or

        c. under Patent Claims infringed by Covered Software in the
        absence of its Contributions.

    This License does not grant any rights in the trademarks, service marks,
    or logos of any Contributor (except as may be necessary to comply with
    the notice requirements in Section 3.4).

    2.4. Subsequent Licenses
    No Contributor makes additional grants as a result of Your choice to
    distribute the Covered Software under a subsequent version of this
    License (see Section 10.2) or under the terms of a Secondary License
    (if permitted under the terms of Section 3.3).

    2.5. Representation
    Each Contributor represents that the Contributor believes its
    Contributions are its original creation(s) or it has sufficient rights
    to grant the rights to its Contributions conveyed by this License.
```

```
    2.6. Fair Use
    This License is not intended to limit any rights You have under
    applicable copyright doctrines of fair use, fair dealing,
    or other equivalents.

    2.7. Conditions
    Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the
    licenses granted in Section 2.1.

3. Responsibilities

    3.1. Distribution of Source Form
    All distribution of Covered Software in Source Code Form, including
    any Modifications that You create or to which You contribute, must be
    under the terms of this License. You must inform recipients that the
    Source Code Form of the Covered Software is governed by the terms
    of this License, and how they can obtain a copy of this License.
    You may not attempt to alter or restrict the recipients' rights
    in the Source Code Form.

    3.2. Distribution of Executable Form
    If You distribute Covered Software in Executable Form then:

        a. such Covered Software must also be made available in Source Code
        Form, as described in Section 3.1, and You must inform recipients of
        the Executable Form how they can obtain a copy of such Source Code
        Form by reasonable means in a timely manner, at a charge no more
 than
        the cost of distribution to the recipient; and

        b. You may distribute such Executable Form under the terms of this
        License, or sublicense it under different terms, provided that the
        license for the Executable Form does not attempt to limit or alter
        the recipients' rights in the Source Code Form under this License.

    3.3. Distribution of a Larger Work
    You may create and distribute a Larger Work under terms of Your choice,
    provided that You also comply with the requirements of this License for
    the Covered Software. If the Larger Work is a combination of
    Covered Software with a work governed by one or more Secondary Licenses,
    and the Covered Software is not Incompatible With Secondary Licenses,
    this License permits You to additionally distribute such Covered
 Software
    under the terms of such Secondary License(s), so that the recipient of
    the Larger Work may, at their option, further distribute the
    Covered Software under the terms of either this License or such
    Secondary License(s).

    3.4. Notices
    You may not remove or alter the substance of any license notices
    (including copyright notices, patent notices, disclaimers of warranty,
    or limitations of liability) contained within the Source Code Form of
    the Covered Software, except that You may alter any license notices to
    the extent required to remedy known factual inaccuracies.

    3.5. Application of Additional Terms
    You may choose to offer, and to charge a fee for, warranty, support,
    indemnity or liability obligations to one or more recipients of
    Covered Software. However, You may do so only on Your own behalf,
    and not on behalf of any Contributor. You must make it absolutely clear
    that any such warranty, support, indemnity, or liability obligation is
    offered by You alone, and You hereby agree to indemnify every
 Contributor
```

```
    for any liability incurred by such Contributor as a result of warranty,
    support, indemnity or liability terms You offer. You may include
    additional disclaimers of warranty and limitations of liability
    specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute,
judicial order, or regulation then You must: (a) comply with the terms of
this License to the maximum extent possible; and (b) describe the
 limitations
and the code they affect. Such description must be placed in a text file
included with all distributions of the Covered Software under this License.
Except to the extent prohibited by statute or regulation, such description
must be sufficiently detailed for a recipient of ordinary skill
to be able to understand it.

5. Termination

    5.1. The rights granted under this License will terminate automatically
    if You fail to comply with any of its terms. However, if You become
    compliant, then the rights granted under this License from a particular
    Contributor are reinstated (a) provisionally, unless and until such
    Contributor explicitly and finally terminates Your grants, and (b) on an
    ongoing basis, if such Contributor fails to notify You of the
    non-compliance by some reasonable means prior to 60 days after You have
    come back into compliance. Moreover, Your grants from a particular
    Contributor are reinstated on an ongoing basis if such Contributor
    notifies You of the non-compliance by some reasonable means,
    this is the first time You have received notice of non-compliance with
    this License from such Contributor, and You become compliant prior to
    30 days after Your receipt of the notice.

    5.2. If You initiate litigation against any entity by asserting a patent
    infringement claim (excluding declaratory judgment actions,
    counter-claims, and cross-claims) alleging that a Contributor Version
    directly or indirectly infringes any patent, then the rights granted
    to You by any and all Contributors for the Covered Software under
    Section 2.1 of this License shall terminate.

    5.3. In the event of termination under Sections 5.1 or 5.2 above, all
    end user license agreements (excluding distributors and resellers) which
    have been validly granted by You or Your distributors under this License
    prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an “as is” basis, without
warranty of any kind, either expressed, implied, or statutory, including,
without limitation, warranties that the Covered Software is free of defects,
merchantable, fit for a particular purpose or non-infringing. The entire
 risk
as to the quality and performance of the Covered Software is with You.
Should any Covered Software prove defective in any respect, You
(not any Contributor) assume the cost of any necessary servicing, repair,
or correction. This disclaimer of warranty constitutes an essential part of
this License. No use of any Covered Software is authorized under this
License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort
(including negligence), contract, or otherwise, shall any Contributor, or
```

```
anyone who distributes Covered Software as permitted above, be liable to
You for any direct, indirect, special, incidental, or consequential damages
of any character including, without limitation, damages for lost profits,
loss of goodwill, work stoppage, computer failure or malfunction, or any and
all other commercial damages or losses, even if such party shall have been
informed of the possibility of such damages. This limitation of liability
shall not apply to liability for death or personal injury resulting from
such party’s negligence to the extent applicable law prohibits such
limitation. Some jurisdictions do not allow the exclusion or limitation of
incidental or consequential damages, so this exclusion and limitation may
not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of
a jurisdiction where the defendant maintains its principal place of business
and such litigation shall be governed by laws of that jurisdiction, without
reference to its conflict-of-law provisions. Nothing in this Section shall
prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter
hereof. If any provision of this License is held to be unenforceable,
such provision shall be reformed only to the extent necessary to make it
enforceable. Any law or regulation which provides that the language of a
contract shall be construed against the drafter shall not be used to
 construe
this License against a Contributor.

10. Versions of the License

    10.1. New Versions
    Mozilla Foundation is the license steward. Except as provided in
    Section 10.3, no one other than the license steward has the right to
    modify or publish new versions of this License. Each version will be
    given a distinguishing version number.

    10.2. Effect of New Versions
    You may distribute the Covered Software under the terms of the version
    of the License under which You originally received the Covered Software,
    or under the terms of any subsequent version published
    by the license steward.

    10.3. Modified Versions
    If you create software not governed by this License, and you want to
    create a new license for such software, you may create and use a
 modified
    version of this License if you rename the license and remove any
    references to the name of the license steward (except to note that such
    modified license differs from this License).

    10.4. Distributing Source Code Form that is
    Incompatible With Secondary Licenses
    If You choose to distribute Source Code Form that is
    Incompatible With Secondary Licenses under the terms of this version of
    the License, the notice described in Exhibit B of this
    License must be attached.

Exhibit A - Source Code Form License Notice

    This Source Code Form is subject to the terms of the
    Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed
    with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
```

```
If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to
look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice

    This Source Code Form is “Incompatible With Secondary Licenses”,
    as defined by the Mozilla Public License, v. 2.0.

-------------------------------------------------------------------------------

Eclipse Public License, Version 1.0 (EPL-1.0)

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

    a) in the case of the initial Contributor, the initial code and
       documentation distributed under this Agreement, and

    b) in the case of each subsequent Contributor:
        i) changes to the Program, and
        ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates'
from a Contributor if it was added to the Program by such Contributor itself
or anyone acting on such Contributor's behalf. Contributions do not include
additions to the Program which: (i) are separate modules of software
distributed in conjunction with the Program under their own license
 agreement,
and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or
when combined with the Program.

"Program" means the Contributions distributed in accordance with
this Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS

    a) Subject to the terms of this Agreement, each Contributor hereby
 grants
       Recipient a non-exclusive, worldwide, royalty-free copyright license
 to
       reproduce, prepare derivative works of, publicly display, publicly
       perform, distribute and sublicense the Contribution of such
       Contributor, if any, and such derivative works,
       in source code and object code form.
```

```
    b) Subject to the terms of this Agreement, each Contributor hereby
 grants
       Recipient a non-exclusive, worldwide, royalty-free patent license
 under
       Licensed Patents to make, use, sell, offer to sell, import and
       otherwise transfer the Contribution of such Contributor, if any,
       in source code and object code form. This patent license shall apply
       to the combination of the Contribution and the Program if, at the
 time
       the Contribution is added by the Contributor, such addition of the
       Contribution causes such combination to be covered by the
       Licensed Patents. The patent license shall not apply to any other
       combinations which include the Contribution.
       No hardware per se is licensed hereunder.

    c) Recipient understands that although each Contributor grants the
       licenses to its Contributions set forth herein, no assurances are
       provided by any Contributor that the Program does not infringe the
       patent or other intellectual property rights of any other entity.
       Each Contributor disclaims any liability to Recipient for claims
       brought by any other entity based on infringement of intellectual
       property rights or otherwise. As a condition to exercising the
       rights and licenses granted hereunder, each Recipient hereby assumes
       sole responsibility to secure any other intellectual property rights
       needed, if any. For example, if a third party patent license is
       required to allow Recipient to distribute the Program, it is
       Recipient's responsibility to acquire that license
       before distributing the Program.

    d) Each Contributor represents that to its knowledge it has sufficient
       copyright rights in its Contribution, if any, to grant the copyright
       license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
its own license agreement, provided that:

    a) it complies with the terms and conditions of this Agreement; and

    b) its license agreement:

        i) effectively disclaims on behalf of all Contributors all
 warranties
        and conditions, express and implied, including warranties or
        conditions of title and non-infringement, and implied warranties or
        conditions of merchantability and fitness for a particular purpose;

        ii) effectively excludes on behalf of all Contributors all liability
        for damages, including direct, indirect, special, incidental and
        consequential damages, such as lost profits;

        iii) states that any provisions which differ from this Agreement are
        offered by that Contributor alone and not by any other party; and

        iv) states that source code for the Program is available from such
        Contributor, and informs licensees how to obtain it in a reasonable
        manner on or through a medium customarily used for software
 exchange.

When the Program is made available in source code form:

    a) it must be made available under this Agreement; and
```

```
    b) a copy of this Agreement must be included with each copy of the
 Program.

Contributors may not remove or alter any copyright notices contained
within the Program.

Each Contributor must identify itself as the originator of its Contribution,
if any, in a manner that reasonably allows subsequent Recipients to
identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
 who
includes the Program in a commercial product offering should do so in a
 manner
which does not create potential liability for other Contributors. Therefore,
if a Contributor includes the Program in a commercial product offering,
such Contributor ("Commercial Contributor") hereby agrees to defend and
indemnify every other Contributor ("Indemnified Contributor") against any
losses, damages and costs (collectively "Losses") arising from claims,
lawsuits and other legal actions brought by a third party against the
Indemnified Contributor to the extent caused by the acts or omissions of
such Commercial Contributor in connection with its distribution of the
 Program
in a commercial product offering. The obligations in this section do not
 apply
to any claims or Losses relating to any actual or alleged intellectual
property infringement. In order to qualify, an Indemnified Contributor must:
a) promptly notify the Commercial Contributor in writing of such claim,
and b) allow the Commercial Contributor to control, and cooperate with the
Commercial Contributor in, the defense and any related settlement
negotiations. The Indemnified Contributor may participate in any such
claim at its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor.
If that Commercial Contributor then makes performance claims, or offers
warranties related to Product X, those performance claims and warranties
are such Commercial Contributor's responsibility alone. Under this section,
the Commercial Contributor would have to defend claims against the other
Contributors related to those performance claims and warranties, and if a
court requires any other Contributor to pay any damages as a result,
the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS
 OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
 TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
Each Recipient is solely responsible for determining the appropriateness of
using and distributing the Program and assumes all risks associated with its
exercise of rights under this Agreement , including but not limited to the
risks and costs of program errors, compliance with applicable laws, damage
 to
or loss of data, programs or equipment, and unavailability
or interruption of operations.
```

```
6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION
LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of the
remainder of the terms of this Agreement, and without further action by
the parties hereto, such provision shall be reformed to the minimum extent
necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program itself
(excluding combinations of the Program with other software or hardware)
infringes such Recipient's patent(s), then such Recipient's rights granted
under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
does not cure such failure in a reasonable period of time after becoming
aware of such noncompliance. If all Recipient's rights under this
Agreement terminate, Recipient agrees to cease use and distribution of the
Program as soon as reasonably practicable. However, Recipient's obligations
under this Agreement and any licenses granted by Recipient relating to the
Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and may
only be modified in the following manner. The Agreement Steward reserves
the right to publish new versions (including revisions) of this Agreement
from time to time. No one other than the Agreement Steward has the right to
modify this Agreement. The Eclipse Foundation is the initial
Agreement Steward. The Eclipse Foundation may assign the responsibility to
serve as the Agreement Steward to a suitable separate entity. Each new
 version
of the Agreement will be given a distinguishing version number. The Program
(including Contributions) may always be distributed subject to the version
of the Agreement under which it was received. In addition, after a new
 version
of the Agreement is published, Contributor may elect to distribute the
 Program
(including its Contributions) under the new version. Except as expressly
stated in Sections 2(a) and 2(b) above, Recipient receives no rights or
licenses to the intellectual property of any Contributor under this
 Agreement,
whether expressly, by implication, estoppel or otherwise. All rights in the
Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to
this Agreement will bring a legal action under this Agreement more than one
year after the cause of action arose. Each party waives its rights to a
jury trial in any resulting litigation.


//////////////////copyright info////////////////
```

```
/*
 * Copyright 2004-2021 H2 Group. Multiple-Licensed under the MPL 2.0,
 * and the EPL 1.0 (https://h2database.com/html/license.html).
 * Initial Developer: H2 Group
 */

==== hgiessel 3/2/23: adding more complete set of copyright notices ====
--- H2 ---
Copyright (c) 1999, 2006 Tanuki Software, Inc.
Copyright (c) 2000-2005 Marc Alexander Lehmann <schmorp@schmorp.de>
Copyright (c) 2001 Silver Egg Technology
Copyright (c) 2005 Oren J. Maurice <oymaurice@hazorea.org.il>
Copyright 2004-2023 H2 Group. Multiple-Licensed under the MPL 2.0
--- 4th party dependencies based on attribution helper below ---
-------------------------- Fourth Party Dependencies
 ---------------------------

----------------------------------- Licenses
 -----------------------------------
-  Apache-2.0
-  EPL-1.0
-  EPL-2.0
-  GPL-2.0
-  GPL-2.0-with-classpath-exception
-  MIT
-  MPL-2.0

---------------------------------- (separator)
 ----------------------------------

== Dependency
jakarta.servlet:jakarta.servlet-api

== License Type
# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.

    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.
```

```
"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
```

```
      before distributing the Program.

      d) Each Contributor represents that to its knowledge it has
      sufficient copyright rights in its Contribution, if any, to grant
      the copyright license set forth in this Agreement.

      e) Notwithstanding the terms of any Secondary License, no
      Contributor makes additional grants to any Recipient (other than
      those set forth in this Agreement) as a result of such Recipient's
      receipt of the Program under the terms of a Secondary License
      (if permitted under the terms of Section 3).

    3. REQUIREMENTS

    3.1 If a Contributor Distributes the Program in any form, then:

      a) the Program must also be made available as Source Code, in
      accordance with section 3.2, and the Contributor must accompany
      the Program with a statement that the Source Code for the Program
      is available under this Agreement, and informs Recipients how to
      obtain it in a reasonable manner on or through a medium customarily
      used for software exchange; and

      b) the Contributor may Distribute the Program under a license
      different than this Agreement, provided that such license:
         i) effectively disclaims on behalf of all other Contributors all
         warranties and conditions, express and implied, including
         warranties or conditions of title and non-infringement, and
         implied warranties or conditions of merchantability and fitness
         for a particular purpose;

         ii) effectively excludes on behalf of all other Contributors all
         liability for damages, including direct, indirect, special,
         incidental and consequential damages, such as lost profits;

         iii) does not attempt to limit or alter the recipients' rights
         in the Source Code under section 3.2; and

         iv) requires any subsequent distribution of the Program by any
         party to be under a license that satisfies the requirements
         of this section 3.

    3.2 When the Program is Distributed as Source Code:

      a) it must be made available under this Agreement, or if the
      Program (i) is combined with other material in a separate file or
      files made available under a Secondary License, and (ii) the initial
      Contributor attached to the Source Code the notice described in
      Exhibit A of this Agreement, then the Program may be made available
      under the terms of such Secondary Licenses, and

      b) a copy of this Agreement must be included with each copy of
      the Program.

    3.3 Contributors may not remove or alter any copyright, patent,
    trademark, attribution notices, disclaimers of warranty, or limitations
    of liability ("notices") contained within the Program from any copy of
    the Program which they Distribute, provided that Contributors may add
    their own appropriate notices.

    4. COMMERCIAL DISTRIBUTION

    Commercial distributors of software may accept certain responsibilities
    with respect to end users, business partners and the like. While this
```

```
   license is intended to facilitate the commercial use of the Program,
   the Contributor who includes the Program in a commercial product
   offering should do so in a manner which does not create potential
   liability for other Contributors. Therefore, if a Contributor includes
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the
Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
   Contributor must: a) promptly notify the Commercial Contributor in
   writing of such claim, and b) allow the Commercial Contributor to
control,
   and cooperate with the Commercial Contributor in, the defense and any
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.

   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance
   claims, or offers warranties related to Product X, those performance
   claims and warranties are such Commercial Contributor's responsibility
   alone. Under this section, the Commercial Contributor would have to
   defend claims against the other Contributors related to those
performance
   claims and warranties, and if a court requires any other Contributor to
   pay any damages as a result, the Commercial Contributor must pay
   those damages.

   5. NO WARRANTY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
   BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
   IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
   TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
   PURPOSE. Each Recipient is solely responsible for determining the
   appropriateness of using and distributing the Program and assumes all
   risks associated with its exercise of rights under this Agreement,
   including but not limited to the risks and costs of program errors,
   compliance with applicable laws, damage to or loss of data, programs
   or equipment, and unavailability or interruption of operations.

   6. DISCLAIMER OF LIABILITY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
   SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
   PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
   CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
   ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
   EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
   POSSIBILITY OF SUCH DAMAGES.

   7. GENERAL

   If any provision of this Agreement is invalid or unenforceable under
   applicable law, it shall not affect the validity or enforceability of
```

```
    the remainder of the terms of this Agreement, and without further
    action by the parties hereto, such provision shall be reformed to the
    minimum extent necessary to make such provision valid and enforceable.

    If Recipient institutes patent litigation against any entity
    (including a cross-claim or counterclaim in a lawsuit) alleging that the
    Program itself (excluding combinations of the Program with other
software
    or hardware) infringes such Recipient's patent(s), then such Recipient's
    rights granted under Section 2(b) shall terminate as of the date such
    litigation is filed.

    All Recipient's rights under this Agreement shall terminate if it
    fails to comply with any of the material terms or conditions of this
    Agreement and does not cure such failure in a reasonable period of
    time after becoming aware of such noncompliance. If all Recipient's
    rights under this Agreement terminate, Recipient agrees to cease use
    and distribution of the Program as soon as reasonably practicable.
    However, Recipient's obligations under this Agreement and any licenses
    granted by Recipient relating to the Program shall continue and survive.

    Everyone is permitted to copy and distribute copies of this Agreement,
    but in order to avoid inconsistency the Agreement is copyrighted and
    may only be modified in the following manner. The Agreement Steward
    reserves the right to publish new versions (including revisions) of
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is
published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

---
```

```
##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.

    When we speak of free software, we are referring to freedom, not price.
    Our General Public Licenses are designed to make sure that you have the
    freedom to distribute copies of free software (and charge for this
    service if you wish), that you receive source code or can get it if you
    want it, that you can change the software or use pieces of it in new
    free programs; and that you know you can do these things.

    To protect your rights, we need to make restrictions that forbid anyone
    to deny you these rights or to ask you to surrender the rights. These
    restrictions translate to certain responsibilities for you if you
    distribute copies of the software, or if you modify it.

    For example, if you distribute copies of such a program, whether gratis
    or for a fee, you must give the recipients all the rights that you have.
    You must make sure that they, too, receive or can get the source code.
    And you must show them these terms so they know their rights.

    We protect your rights with two steps: (1) copyright the software, and
    (2) offer you this license which gives you legal permission to copy,
    distribute and/or modify the software.

    Also, for each author's protection and ours, we want to make certain
    that everyone understands that there is no warranty for this free
    software. If the software is modified by someone else and passed on, we
    want its recipients to know that what they have is not the original, so
    that any problems introduced by others will not reflect on the original
    authors' reputations.

    Finally, any free program is threatened constantly by software patents.
    We wish to avoid the danger that redistributors of a free program will
    individually obtain patent licenses, in effect making the program
    proprietary. To prevent this, we have made it clear that any patent must
    be licensed for everyone's free use or not licensed at all.

    The precise terms and conditions for copying, distribution and
    modification follow.

    TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

    0. This License applies to any program or other work which contains a
    notice placed by the copyright holder saying it may be distributed under
    the terms of this General Public License. The "Program", below, refers
    to any such program or work, and a "work based on the Program" means
```

```
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
```

```
    storage or distribution medium does not bring the other work under the
    scope of this License.

    3. You may copy and distribute the Program (or a work based on it,
    under Section 2) in object code or executable form under the terms of
    Sections 1 and 2 above provided that you also do one of the following:

        a) Accompany it with the complete corresponding machine-readable
        source code, which must be distributed under the terms of Sections 1
        and 2 above on a medium customarily used for software interchange;
or,

        b) Accompany it with a written offer, valid for at least three
        years, to give any third party, for a charge no more than your cost
        of physically performing source distribution, a complete
        machine-readable copy of the corresponding source code, to be
        distributed under the terms of Sections 1 and 2 above on a medium
        customarily used for software interchange; or,

        c) Accompany it with the information you received as to the offer to
        distribute corresponding source code. (This alternative is allowed
        only for noncommercial distribution and only if you received the
        program in object code or executable form with such an offer, in
        accord with Subsection b above.)

    The source code for a work means the preferred form of the work for
    making modifications to it. For an executable work, complete source code
    means all the source code for all modules it contains, plus any
    associated interface definition files, plus the scripts used to control
    compilation and installation of the executable. However, as a special
    exception, the source code distributed need not include anything that is
    normally distributed (in either source or binary form) with the major
    components (compiler, kernel, and so on) of the operating system on
    which the executable runs, unless that component itself accompanies the
    executable.

    If distribution of executable or object code is made by offering access
    to copy from a designated place, then offering equivalent access to copy
    the source code from the same place counts as distribution of the source
    code, even though third parties are not compelled to copy the source
    along with the object code.

    4. You may not copy, modify, sublicense, or distribute the Program
    except as expressly provided under this License. Any attempt otherwise
    to copy, modify, sublicense or distribute the Program is void, and will
    automatically terminate your rights under this License. However, parties
    who have received copies, or rights, from you under this License will
    not have their licenses terminated so long as such parties remain in
    full compliance.

    5. You are not required to accept this License, since you have not
    signed it. However, nothing else grants you permission to modify or
    distribute the Program or its derivative works. These actions are
    prohibited by law if you do not accept this License. Therefore, by
    modifying or distributing the Program (or any work based on the
    Program), you indicate your acceptance of this License to do so, and all
    its terms and conditions for copying, distributing or modifying the
    Program or works based on it.

    6. Each time you redistribute the Program (or any work based on the
    Program), the recipient automatically receives a license from the
    original licensor to copy, distribute or modify the Program subject to
    these terms and conditions. You may not impose any further restrictions
    on the recipients' exercise of the rights granted herein. You are not
```

```
   responsible for enforcing compliance by third parties to this License.

   7. If, as a consequence of a court judgment or allegation of patent
   infringement or for any other reason (not limited to patent issues),
   conditions are imposed on you (whether by court order, agreement or
   otherwise) that contradict the conditions of this License, they do not
   excuse you from the conditions of this License. If you cannot distribute
   so as to satisfy simultaneously your obligations under this License and
   any other pertinent obligations, then as a consequence you may not
   distribute the Program at all. For example, if a patent license would
   not permit royalty-free redistribution of the Program by all those who
   receive copies directly or indirectly through you, then the only way you
   could satisfy both it and this License would be to refrain entirely from
   distribution of the Program.

   If any portion of this section is held invalid or unenforceable under
   any particular circumstance, the balance of the section is intended to
   apply and the section as a whole is intended to apply in other
   circumstances.

   It is not the purpose of this section to induce you to infringe any
   patents or other property right claims or to contest validity of any
   such claims; this section has the sole purpose of protecting the
   integrity of the free software distribution system, which is implemented
   by public license practices. Many people have made generous
   contributions to the wide range of software distributed through that
   system in reliance on consistent application of that system; it is up to
   the author/donor to decide if he or she is willing to distribute
   software through any other system and a licensee cannot impose that
choice.

   This section is intended to make thoroughly clear what is believed to be
   a consequence of the rest of this License.

   8. If the distribution and/or use of the Program is restricted in
   certain countries either by patents or by copyrighted interfaces, the
   original copyright holder who places the Program under this License may
   add an explicit geographical distribution limitation excluding those
   countries, so that distribution is permitted only in or among countries
   not thus excluded. In such case, this License incorporates the
   limitation as if written in the body of this License.

   9. The Free Software Foundation may publish revised and/or new
   versions of the General Public License from time to time. Such new
   versions will be similar in spirit to the present version, but may
   differ in detail to address new problems or concerns.

   Each version is given a distinguishing version number. If the Program
   specifies a version number of this License which applies to it and "any
   later version", you have the option of following the terms and
   conditions either of that version or of any later version published by
   the Free Software Foundation. If the Program does not specify a version
   number of this License, you may choose any version ever published by the
   Free Software Foundation.

   10. If you wish to incorporate parts of the Program into other free
   programs whose distribution conditions are different, write to the
   author to ask for permission. For software which is copyrighted by the
   Free Software Foundation, write to the Free Software Foundation; we
   sometimes make exceptions for this. Our decision will be guided by the
   two goals of preserving the free status of all derivatives of our free
   software and of promoting the sharing and reuse of software generally.

   NO WARRANTY
```

```
   11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
   WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
   EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
   OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
   EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
   ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
   YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
   NECESSARY SERVICING, REPAIR OR CORRECTION.

   12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
   WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
   AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
   DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
   DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
   (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
   INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
   THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
   OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

   If you develop a new program, and you want it to be of the greatest
   possible use to the public, the best way to achieve this is to make it
   free software which everyone can redistribute and change under these
terms.

   To do so, attach the following notices to the program. It is safest to
   attach them to the start of each source file to most effectively convey
   the exclusion of warranty; and each file should have at least the
   "copyright" line and a pointer to where the full notice is found.

       One line to give the program's name and a brief idea of what it
does.
       Copyright (C) <year> <name of author>

       This program is free software; you can redistribute it and/or modify
       it under the terms of the GNU General Public License as published by
       the Free Software Foundation; either version 2 of the License, or
       (at your option) any later version.

       This program is distributed in the hope that it will be useful, but
       WITHOUT ANY WARRANTY; without even the implied warranty of
       MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
       General Public License for more details.

       You should have received a copy of the GNU General Public License
       along with this program; if not, write to the Free Software
       Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1335 USA

   Also add information on how to contact you by electronic and paper mail.

   If the program is interactive, make it output a short notice like this
   when it starts in an interactive mode:

       Gnomovision version 69, Copyright (C) year name of author
       Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
       `show w'. This is free software, and you are welcome to redistribute
       it under certain conditions; type `show c' for details.
```

```
    The hypothetical commands `show w' and `show c' should show the
    appropriate parts of the General Public License. Of course, the commands
    you use may be called something other than `show w' and `show c'; they
    could even be mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.

        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice

    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.



== Copyright
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Copyright (C) <year> <name of author>
Copyright (C) year name of author
Copyright (c) 1997, 2019 Oracle and/or its affiliates and others.
Copyright (c) 1997, 2020 Oracle and/or its affiliates and others.
Copyright (c) 2017, 2019 Oracle and/or its affiliates and others.
Copyright (c) 2017, 2020 Oracle and/or its affiliates and others.
Copyright 2004 The Apache Software Foundation

---------------------------------- (separator)
 -----------------------------------


==============================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
==============================================================================

This software includes a binary and/or source version of data from
```

```
  mecab-ipadic-2.7.0-20070801

which can be obtained from

  http://atilika.com/releases/mecab-ipadic/mecab-
ipadic-2.7.0-20070801.tar.gz

or

  http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/
mecab-ipadic-2.7.0-20070801.tar.gz

==============================================================================
mecab-ipadic-2.7.0-20070801 Notice
==============================================================================

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originate from ICOT Free Software.  The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis.  Accordingly, the
program is provided without any warranty whatsoever, whether express,
implied, statutory or otherwise.  The term "warranty" used herein
includes, but is not limited to, any warranty of the quality,
performance, merchantability and fitness for a particular purpose of
the program and the nonexistence of any infringement or violation of
any right of any third party.

Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other
organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general, special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
```

```
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter.  Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program.  The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.

In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.

==============================================================================
Nori Korean Morphological Analyzer - Apache Lucene Integration
==============================================================================

This software includes a binary and/or source version of data from

  mecab-ko-dic-2.0.3-20170922

which can be obtained from

  https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-
dic-2.0.3-20170922.tar.gz


---------------------------------- (separator)
 -----------------------------------
==================================================================================
== Dependency
org.apache.lucene:lucene-core

== License Type
SPDX:Apache-2.0

== Dependency
org.apache.lucene:lucene-queryparser

== License Type
SPDX:Apache-2.0


== Dependency
org.apache.lucene:lucene-sandbox

== License Type
SPDX:Apache-2.0


== Dependency
org.apache.lucene:lucene-analyzers-common

== License Type
SPDX:Apache-2.0

== Dependency
org.apache.lucene:lucene-queries

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.
Copyright (C) 1999-2010, International Business Machines
Copyright (c) 1970-2003, Wm. Randolph Franklin
Copyright (c) 1995-2008 International Business Machines Corporation and
 others
Copyright (c) 2001, Dr Martin Porter
Copyright (c) 2001-2009 Anders Moeller
Copyright (c) 2002, Richard Boulton
Copyright (c) 2006 Dawid Weiss
Copyright (c) 2007-2011 Dawid Weiss, Marcin Miłkowski
Copyright (c) 2010, Jean-Philippe Barrette-LaPierre, <jpb@rrette.com>
Copyright (c) 2011-2016, Yann Collet
Copyright (c) 2016, Mapbox
Copyright 2001-2004 Unicode, Inc.
Copyright 2001-2020 The Apache Software Foundation
Copyright © 2003,
Copyright © 2011 Zygmunt Saloni, Włodzimierz Gruszczyński,
copyright 2009 by www.imdict.net.

== Notices
Apache Lucene
Copyright 2001-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Includes software from other Apache Software Foundation projects,
including, but not limited to:
 - Apache Ant
 - Apache Jakarta Regexp
 - Apache Commons
 - Apache Xerces

ICU4J, (under analysis/icu) is licensed under an MIT styles license
and Copyright (c) 1995-2008 International Business Machines Corporation and
 others

Some data files (under analysis/icu/src/data) are derived from Unicode data
 such
as the Unicode Character Database. See http://unicode.org/copyright.html for
 more
details.

Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is
BSD-licensed, created by Anders Møller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/
automaton) were
automatically generated with the moman/finenight FSA library, created by
Jean-Philippe Barrette-LaPierre. This library is available under an MIT
 license,
see http://sites.google.com/site/rrettesite/moman and
http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
the Apache CXF project and is Apache License 2.0.

The class org.apache.lucene.util.compress.LZ4 is a Java rewrite of the LZ4
compression library (https://github.com/lz4/lz4/tree/dev/lib) that is
 licensed
under the 2-clause BSD license.
```

```
(https://opensource.org/licenses/bsd-license.php)

The Google Code Prettify is Apache License 2.0.
See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling
 Checkin
g Package (jaspell): http://jaspell.sourceforge.net/
License: The BSD License (http://www.opensource.org/licenses/bsd-
license.php)

The snowball stemmers in
  analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
  analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
  http://snowball.tartarus.org/

The KStem stemmer in
  analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common)
 come with a default
stopword list that is BSD-licensed created by Jacques Savoy.  These files
 reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and
 Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by
 Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/
GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/
GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/
SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/
FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/
FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/
FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/
HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/
ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/
PortugueseLightStemmer.java
```

```
analysis/common/src/java/org/apache/lucene/analysis/ru/
RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/
SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos,
 Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file
 resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was
provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
is derived from Unicode data such as the Unicode Character Database.
See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software
developed by Dawid Weiss and Marcin Miłkowski (http://
morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary
(http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia)
LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP)
(http://sgjp.pl/morfeusz/)
================================================================================
==========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
==========================================================================

This software includes a binary and/or source version of data from

  mecab-ipadic-2.7.0-20070801

which can be obtained from

  http://atilika.com/releases/mecab-ipadic/mecab-
ipadic-2.7.0-20070801.tar.gz

or

  http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/
mecab-ipadic-2.7.0-20070801.tar.gz

==========================================================================
mecab-ipadic-2.7.0-20070801 Notice
==========================================================================

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.
```

```
A large portion of the dictionary entries
originate from ICOT Free Software.  The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis.  Accordingly, the
program is provided without any warranty whatsoever, whether express,
implied, statutory or otherwise.  The term "warranty" used herein
includes, but is not limited to, any warranty of the quality,
performance, merchantability and fitness for a particular purpose of
the program and the nonexistence of any infringement or violation of
any right of any third party.

Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other
organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general, special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter.  Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program.  The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.

In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.

==========================================================================
Nori Korean Morphological Analyzer - Apache Lucene Integration
==========================================================================

This software includes a binary and/or source version of data from

  mecab-ko-dic-2.0.3-20170922

which can be obtained from
```

```
  https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-
dic-2.0.3-20170922.tar.gz


---------------------------------- (separator)
 -----------------------------------


==============================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
==============================================================================

This software includes a binary and/or source version of data from

  mecab-ipadic-2.7.0-20070801

which can be obtained from

  http://atilika.com/releases/mecab-ipadic/mecab-
ipadic-2.7.0-20070801.tar.gz

or

  http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/
mecab-ipadic-2.7.0-20070801.tar.gz

==============================================================================
mecab-ipadic-2.7.0-20070801 Notice
==============================================================================

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originate from ICOT Free Software.  The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis.  Accordingly, the
program is provided without any warranty whatsoever, whether express,
implied, statutory or otherwise.  The term "warranty" used herein
includes, but is not limited to, any warranty of the quality,
performance, merchantability and fitness for a particular purpose of
the program and the nonexistence of any infringement or violation of
any right of any third party.
```

```
Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other
organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general, special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter.  Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program.  The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.

In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.

==========================================================================
Nori Korean Morphological Analyzer - Apache Lucene Integration
==========================================================================

This software includes a binary and/or source version of data from

  mecab-ko-dic-2.0.3-20170922

which can be obtained from

  https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-
dic-2.0.3-20170922.tar.gz


--------------------------------- (separator)
 ----------------------------------



==========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
==========================================================================

This software includes a binary and/or source version of data from

  mecab-ipadic-2.7.0-20070801

which can be obtained from

  http://atilika.com/releases/mecab-ipadic/mecab-
ipadic-2.7.0-20070801.tar.gz

or
```

```
  http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/
mecab-ipadic-2.7.0-20070801.tar.gz

==============================================================================
mecab-ipadic-2.7.0-20070801 Notice
==============================================================================

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originate from ICOT Free Software.  The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis.  Accordingly, the
program is provided without any warranty whatsoever, whether express,
implied, statutory or otherwise.  The term "warranty" used herein
includes, but is not limited to, any warranty of the quality,
performance, merchantability and fitness for a particular purpose of
the program and the nonexistence of any infringement or violation of
any right of any third party.

Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other
organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general, special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter.  Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program.  The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.

In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
```

```
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.

===============================================================================
Nori Korean Morphological Analyzer - Apache Lucene Integration
===============================================================================

This software includes a binary and/or source version of data from

  mecab-ko-dic-2.0.3-20170922

which can be obtained from

  https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-
dic-2.0.3-20170922.tar.gz


--------------------------------- (separator)
 -----------------------------------


===============================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===============================================================================

This software includes a binary and/or source version of data from

  mecab-ipadic-2.7.0-20070801

which can be obtained from

  http://atilika.com/releases/mecab-ipadic/mecab-
ipadic-2.7.0-20070801.tar.gz

or

  http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/
mecab-ipadic-2.7.0-20070801.tar.gz

===============================================================================
mecab-ipadic-2.7.0-20070801 Notice
===============================================================================

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originate from ICOT Free Software.  The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
```

```
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis.  Accordingly, the
program is provided without any warranty whatsoever, whether express,
implied, statutory or otherwise.  The term "warranty" used herein
includes, but is not limited to, any warranty of the quality,
performance, merchantability and fitness for a particular purpose of
the program and the nonexistence of any infringement or violation of
any right of any third party.

Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other
organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general, special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter.  Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program.  The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.

In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.

==============================================================================
Nori Korean Morphological Analyzer - Apache Lucene Integration
==============================================================================

This software includes a binary and/or source version of data from

  mecab-ko-dic-2.0.3-20170922

which can be obtained from

  https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-
dic-2.0.3-20170922.tar.gz


--------------------------------- (separator)
 ----------------------------------

== Dependency
org.locationtech.jts:jts-core
```

```
== License Type
SPDX:EPL-2.0

== Copyright
Copyright (c) 1995  by  INRIA Prisme Project
Copyright (c) 2016 Martin Davis.
Copyright (c) 2016 Vivid Solutions.
Copyright (c) 2017 Jia Yu.
Copyright (c) 2018 Contributors to the Eclipse Foundation
Copyright (c) 2018 Felix Obermaier
Copyright (c) 2018 Vivid Solutions
Copyright (c) 2019 Martin Davis.
Copyright (c) 2019 martin Davis
Copyright (c) 2020 Martin Davis.

---------------------------------- (separator)
 ----------------------------------

== Dependency
org.osgi:org.osgi.core

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) OSGi Alliance (2000, 2011). All Rights Reserved.
Copyright (c) OSGi Alliance (2000, 2012). All Rights Reserved.
Copyright (c) OSGi Alliance (2001, 2010). All Rights Reserved.
Copyright (c) OSGi Alliance (2001, 2011). All Rights Reserved.
Copyright (c) OSGi Alliance (2001, 2012). All Rights Reserved.
Copyright (c) OSGi Alliance (2002, 2011). All Rights Reserved.
Copyright (c) OSGi Alliance (2002, 2012). All Rights Reserved.
Copyright (c) OSGi Alliance (2004, 2010). All Rights Reserved.
Copyright (c) OSGi Alliance (2004, 2012). All Rights Reserved.
Copyright (c) OSGi Alliance (2005, 2012). All Rights Reserved.
Copyright (c) OSGi Alliance (2007, 2012). All Rights Reserved.
Copyright (c) OSGi Alliance (2008, 2012). All Rights Reserved.
Copyright (c) OSGi Alliance (2009, 2010). All Rights Reserved.
Copyright (c) OSGi Alliance (2009, 2012). All Rights Reserved.
Copyright (c) OSGi Alliance (2010). All Rights Reserved.
Copyright (c) OSGi Alliance (2010, 2012). All Rights Reserved.
Copyright (c) OSGi Alliance (2011). All Rights Reserved.
Copyright (c) OSGi Alliance (2011, 2012). All Rights Reserved.
Copyright (c) OSGi Alliance (2012). All Rights Reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
org.osgi:org.osgi.service.jdbc

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) Contributors to the Eclipse Foundation

---------------------------------- (separator)
 ----------------------------------

== Dependency
org.osgi:osgi.annotation
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) Contributors to the Eclipse Foundation

---------------------------------- (separator)
 ----------------------------------

== Dependency
org.slf4j:slf4j-api

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2004-2011 QOS.ch

------------------------------------ Licenses
 ------------------------------------

---------------------------------- (separator)
 ----------------------------------
== SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
```

```
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and
```

```
(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by
 You to the Licensor shall be under the terms and conditions of this
 License, without any additional terms or conditions. Notwithstanding the
 above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may have executed with Licensor regarding such
 Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
```

```
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.



--------------------------------- (separator)
 -----------------------------------
== SPDX:EPL-2.0

Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:
```

```
  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
```

```
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:
```

```
  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.
```

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be Distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to Distribute the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth

```
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.


---------------------------------- (separator)
 ----------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: HackerOne Inc and individual contributors / Component(s): react-datepicker 1.5.0

```
The MIT License (MIT)

Copyright (c) 2017 HackerOne Inc and individual contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------
========
-----------------

"classnames, 2.2.5, https://github.com/JedWatson/classnames/blob/master/
LICENSE

The MIT License (MIT)

Copyright (c) 2018 Jed Watson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------------------


prop-types, 15.6.1, https://github.com/facebook/prop-types/blob/master/
LICENSE

MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------------------


react-onclickoutside, 1.0.0, https://github.com/FezVrasta/react-popper/blob/
master/LICENSE

The MIT License (MIT)

Copyright (c) 2015 React Popper authors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE

---------------------------


react-popper, 1.0.0, https://github.com/FezVrasta/react-popper/blob/master/
LICENSE


The MIT License (MIT)

Copyright (c) 2015 React Popper authors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Hamcrest / Component(s): Hamcrest 1.3

```
Copyright (c) 2000-2006, www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of
conditions and the following disclaimer. Redistributions in binary form must
 reproduce
the above copyright notice, this list of conditions and the following
 disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used
 to endorse
or promote products derived from this software without specific prior
 written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
DAMAGE.
```

Provider: Hans Hasselberg / Component(s): typphoeus 1.0.2

```
The MIT License (MIT)
Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Harri Siirak / Component(s): cron-parser 4.9.0

```
====================
top level copyright and license

The MIT License (MIT)

Copyright (c) 2014-2016 Harri Siirak

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

================================
luxon

Copyright 2019 JS Foundation and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
```

```
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: HashiCorp / Component(s): go-hclog 0.9.2

```
MIT License

Copyright (c) 2017 HashiCorp

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: HashiCorp / Component(s): go-hclog 1.2.0

```
github.com/hashicorp/go-hclog
-------- Copyrights
Copyright (c) 2017 HashiCorp
Copyright (c) 2016 Uber Technologies, Inc.
-------- License
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
------------------------ Dependencies Grouped by License ------------
```

```
-------- Dependency
github.com/fatih/color
-------- Copyrights
Copyright (c) 2013 Fatih Arslan
-------- Dependency
github.com/mattn/go-colorable
-------- Copyrights
Copyright (c) 2016 Yasuhiro Matsumoto
-------- Dependency
github.com/mattn/go-isatty
-------- Copyrights
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
-------- Dependencies Summary
github.com/fatih/color
github.com/mattn/go-colorable
github.com/mattn/go-isatty
-------- License used by Dependencies
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
ATTRIBUTION-HELPER-GENERATED:
```

Provider: HashiCorp / Component(s): go-hclog 1.3.1

```
=== Public License Template ===

------------------------------ Top-Level License
 -------------------------------
SPDX:MIT

----------------------------------- Copyright
 -----------------------------------
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2017 HashiCorp
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.

-------------------------- Fourth Party Dependencies
 ---------------------------
```

```
----------------------------------- Licenses
 -----------------------------------
-  BSD-3-Clause--modified-by-Google
-  MIT

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/fatih/color

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Fatih Arslan

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/go-hclog/hclogvet

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2017 HashiCorp

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mattn/go-colorable

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Yasuhiro Matsumoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mattn/go-isatty

== License Type
SPDX:MIT

== Copyright
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/mod

== License Type
SPDX:BSD-3-Clause--modified-by-Google
```

```
== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
```

```
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/tools

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) Microsoft Corporation
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/template
\"\n\t\"golang.org/x/tools/internal/lsp/diff\"\n\t\"golang.org/x/tools/
internal/lsp/diff/difftest\"\n\t\"golang.org/x/tools/internal/span\"\n)\n"
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/internal/lsp/diff
\"\n\t\"golang.org/x/tools/internal/lsp/diff/difftest\"\n\t\"golang.org/x/
tools/internal/span\"\n)\n"
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright © 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright © 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright © 1997-1999 Vita Nuova Limited
Copyright © 2000-2007 Lucent Technologies Inc. and others
Copyright © 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright © 2004,2006 Bruce Ellis
Copyright © 2005-2007 C H Forsyth (forsyth@terzarima.net)
```

```
Copyright © 2009 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


------------------------------------ Licenses
 ------------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 ----------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


=== ATTRIBUTION-HELPER-GENERATED:
=== Attribution helper version: {Major:0 Minor:11 GitVersion:0.10.0-102-
gd9a1a0a1 GitCommit:d9a1a0a141aea4c18363434b6aef258211712951
 GitTreeState:dirty BuildDate:2023-01-09T16:06:54Z GoVersion:go1.18.4
 Compiler:gc Platform:linux/amd64}
=== License file based on go.mod with md5 sum:
 9bc966152ceade5e91337cf440cd6951
```

Provider: HashiCorp / Component(s): go-hclog 1.6.2

```



------------------------------ Top-Level License
 -------------------------------
SPDX:MIT

---------------------------------- Copyright
 ----------------------------------
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2017 HashiCorp
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.

-------------------------- Fourth Party Dependencies
 ---------------------------

----------------------------------- Licenses
 -----------------------------------
-  BSD-3-Clause--modified-by-Google
-  MIT

--------------------------------- (separator)
 ---------------------------------

== Dependency
github.com/fatih/color

== License Type
```

```
SPDX:MIT

== Copyright
Copyright (c) 2013 Fatih Arslan

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/go-hclog/hclogvet

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2017 HashiCorp

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mattn/go-colorable

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Yasuhiro Matsumoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mattn/go-isatty

== License Type
SPDX:MIT

== Copyright
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/mod

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.
```

```
Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
```

```
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/tools

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) Microsoft Corporation
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/template
\"\n\t\"golang.org/x/tools/internal/lsp/diff\"\n\t\"golang.org/x/tools/
internal/lsp/diff/difftest\"\n\t\"golang.org/x/tools/internal/span\"\n)\n"
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/internal/lsp/diff
\"\n\t\"golang.org/x/tools/internal/lsp/diff/difftest\"\n\t\"golang.org/x/
tools/internal/span\"\n)\n"
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright © 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright © 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright © 1997-1999 Vita Nuova Limited
Copyright © 2000-2007 Lucent Technologies Inc. and others
Copyright © 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright © 2004,2006 Bruce Ellis
Copyright © 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright © 2009 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
```

```
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


------------------------------------ Licenses
 ------------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 ------------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: HashiCorp / Component(s): go-hclog 61d530d6c27f994fb6c83b80f99a69c54125ec8a

```
MIT License

Copyright (c) 2017 HashiCorp

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: HashiCorp / Component(s): go-plugin 1.0.0

```
The Source Code of this JAR ____________ {development to identify the
 JAR that contains the MPL Bundle} is available under the Mozilla Public
 License, v. 2.0 and is located at _________ {development must provide a
 link to where Oracle makes the source form available under the MPL 2.0}. If
 a copy of the MPL was not distributed with this file, You can obtain one at
 http://mozilla.org/MPL/2.0/.
Software distributed under the License is distributed on an "AS IS" basis,
 WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 for the specific language governing rights and limitations under the
 License.

Mozilla Public License, version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.
1.3. “Contribution”
```

```
means Covered Software of a particular Contributor.
1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. “Incompatible With Secondary Licenses”
means
a. that the initial Contributor has attached the notice described in Exhibit
 B to the Covered Software; or
b. that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
1.6. “Executable Form”
means any form of the work other than Source Code Form.
1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. “License”
means this document.
1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. “Modifications”
means any of the following:
a. any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or
b. any new file in Source Code Form that contains any Covered Software.
1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form”
means the form of the work preferred for making modifications.
1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
a. under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
b. under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.
2.2. Effective Date
```

```
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:
a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party's
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
c. under Patent Claims infringed by Covered Software in the absence of its
 Contributions.
This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
a. such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and
b. You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices
```

```
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
```

```
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
```

Provider: HashiCorp / Component(s): go-plugin 1.4.3

```
You are receiving a copy of the _____________ program in both source and
 object code in the
```

```
following JAR
___________ {development needs to identify the JAR}. The terms of the Oracle
 license do NOT apply
to the
______________ program; it is licensed under the following license,
 separately from the Oracle
programs you
receive. If you do not wish to install this program, you may {development to
 provide brief
instruction on
how not to install}.

github.com/hashicorp/go-plugin
-------- Copyrights
  (no copyright notices found)

-------- License
Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.
```

```
1.8. “License”

     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.

1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:
```

```
     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.
```

```
2.6. Fair Use

     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).
```

```
3.4. Notices

     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.
```

```
5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party’s negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
```

```
   prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
      obtain one at
      http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.
```

```
You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice

      This Source Code Form is “Incompatible
      With Secondary Licenses”, as defined by
      the Mozilla Public License, v. 2.0.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/hashicorp/yamux
-------- Copyrights
  (no copyright notices found)

-------- Dependencies Summary
github.com/hashicorp/yamux

-------- License used by Dependencies
Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. "Contributor Version"

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

     means Covered Software of a particular Contributor.

1.4. "Covered Software"

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. "Incompatible With Secondary Licenses"
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the terms
 of
        a Secondary License.

1.6. "Executable Form"

     means any form of the work other than Source Code Form.

1.7. "Larger Work"

     means a work that combines Covered Software with other material, in a
```

```
     separate file or files, that is not Covered Software.

1.8. "License"

     means this document.

1.9. "Licensable"

     means having the right to grant, to the maximum extent possible,
 whether
     at the time of the initial grant or subsequently, any and all of the
     rights conveyed by this License.

1.10. "Modifications"

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered Software;
 or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

      means any patent claim(s), including without limitation, method,
      process, and apparatus claims, in any patent Licensable by such
      Contributor that would be infringed, but for the grant of the License,
      by the making, using, selling, offering for sale, having made, import,
      or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

      means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

      means an individual or a legal entity exercising rights under this
      License. For legal entities, "You" includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, "control" means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
```

```
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
        as part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
        Contributions or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
     become effective for each Contribution on the date the Contributor
 first
     distributes such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under
     this License. No additional rights or licenses will be implied from the
     distribution or licensing of Covered Software under this License.
     Notwithstanding Section 2.1(b) above, no patent license is granted by a
     Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
        its Contributions.

     This License does not grant any rights in the trademarks, service
 marks,
     or logos of any Contributor (except as may be necessary to comply with
     the notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
     License (see Section 10.2) or under the terms of a Secondary License
 (if
     permitted under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
     Contributions are its original creation(s) or it has sufficient rights
 to
     grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
     applicable copyright doctrines of fair use, fair dealing, or other
     equivalents.

2.7. Conditions
```

```
     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
     the terms of this License. You must inform recipients that the Source
     Code Form of the Covered Software is governed by the terms of this
     License, and how they can obtain a copy of this License. You may not
     attempt to alter or restrict the recipients' rights in the Source Code
     Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
        License, or sublicense it under different terms, provided that the
        license for the Executable Form does not attempt to limit or alter
 the
        recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
     the Covered Software. If the Larger Work is a combination of Covered
     Software with a work governed by one or more Secondary Licenses, and
 the
     Covered Software is not Incompatible With Secondary Licenses, this
     License permits You to additionally distribute such Covered Software
     under the terms of such Secondary License(s), so that the recipient of
     the Larger Work may, at their option, further distribute the Covered
     Software under the terms of either this License or such Secondary
     License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
     (including copyright notices, patent notices, disclaimers of warranty,
 or
     limitations of liability) contained within the Source Code Form of the
     Covered Software, except that You may alter any license notices to the
     extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
```

```
     Software. However, You may do so only on Your own behalf, and not on
     behalf of any Contributor. You must make it absolutely clear that any
     such warranty, support, indemnity, or liability obligation is offered
 by
     You alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
   judicial order, or regulation then You must: (a) comply with the terms of
   this License to the maximum extent possible; and (b) describe the
   limitations and the code they affect. Such description must be placed in
 a
   text file included with all distributions of the Covered Software under
   this License. Except to the extent prohibited by statute or regulation,
   such description must be sufficiently detailed for a recipient of
 ordinary
   skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
     basis, if such Contributor fails to notify You of the non-compliance by
     some reasonable means prior to 60 days after You have come back into
     compliance. Moreover, Your grants from a particular Contributor are
     reinstated on an ongoing basis if such Contributor notifies You of the
     non-compliance by some reasonable means, this is the first time You
 have
     received notice of non-compliance with this License from such
     Contributor, and You become compliant prior to 30 days after Your
 receipt
     of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions,
     counter-claims, and cross-claims) alleging that a Contributor Version
     directly or indirectly infringes any patent, then the rights granted to
     You by any and all Contributors for the Covered Software under Section
     2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an "as is" basis,
   without warranty of any kind, either expressed, implied, or statutory,
```

```
   including, without limitation, warranties that the Covered Software is
 free
   of defects, merchantable, fit for a particular purpose or non-infringing.
   The entire risk as to the quality and performance of the Covered Software
   is with You. Should any Covered Software prove defective in any respect,
   You (not any Contributor) assume the cost of any necessary servicing,
   repair, or correction. This disclaimer of warranty constitutes an
 essential
   part of this License. No use of  any Covered Software is authorized under
   this License except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
   such party's negligence to the extent applicable law prohibits such
   limitation. Some jurisdictions do not allow the exclusion or limitation
 of
   incidental or consequential damages, so this exclusion and limitation may
   not apply to You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
   of a jurisdiction where the defendant maintains its principal place of
   business and such litigation shall be governed by laws of that
   jurisdiction, without reference to its conflict-of-law provisions.
 Nothing
   in this Section shall prevent a party's ability to bring cross-claims or
   counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
   matter hereof. If any provision of this License is held to be
   unenforceable, such provision shall be reformed only to the extent
   necessary to make it enforceable. Any law or regulation which provides
 that
   the language of a contract shall be construed against the drafter shall
 not
   be used to construe this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
```

```
      of the License under which You originally received the Covered
 Software,
      or under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
      modified version of this License if you rename the license and remove
      any references to the name of the license steward (except to note that
      such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
      Licenses If You choose to distribute Source Code Form that is
      Incompatible With Secondary Licenses under the terms of this version
 of
      the License, the notice described in Exhibit B of this License must be
      attached.

Exhibit A - Source Code Form License Notice

      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
      obtain one at
      http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

      This Source Code Form is "Incompatible
      With Secondary Licenses", as defined by
      the Mozilla Public License, v. 2.0.

------------------------ Dependencies Grouped by License ------------
-------- Dependency
github.com/oklog/run
-------- Copyrights
  (no copyright notices found)

-------- Dependency
google.golang.org/genproto
-------- Copyrights
Copyright 2016 Google Inc.
Copyright 2019 Google LLC

-------- Dependency
google.golang.org/grpc
-------- Copyrights
Copyright 2019 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2018 gRPC authors.
Copyright 2014 gRPC authors.
Copyright 2015 gRPC authors.
Copyright 2020 gRPC authors.
```

```
-------- Dependencies Summary
github.com/oklog/run
google.golang.org/genproto
google.golang.org/grpc

-------- License used by Dependencies
SPDX:Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/golang/protobuf
-------- Copyrights
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors.
Copyright 2016 The Go Authors.  All rights reserved.
```

```
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2018 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors.  All rights reserved.

-------- Dependency
golang.org/x/net
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright (C) 2009 Apple Inc. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/text
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.
```

```
Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependencies Summary
github.com/golang/protobuf
golang.org/x/net
golang.org/x/text

-------- License used by Dependencies
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/fatih/color
-------- Copyrights
Copyright (c) 2013 Fatih Arslan

-------- Dependency
github.com/hashicorp/go-hclog
-------- Copyrights
Copyright (c) 2017 HashiCorp
```

```
Copyright (c) 2016 Uber Technologies, Inc.

-------- Dependency
github.com/mattn/go-colorable
-------- Copyrights
Copyright (c) 2016 Yasuhiro Matsumoto

-------- Dependency
github.com/mattn/go-isatty
-------- Copyrights
Copyright (c) Yasuhiro MATSUMOTO

-------- Dependency
github.com/mitchellh/go-testing-interface
-------- Copyrights
Copyright (c) 2016 Mitchell Hashimoto

-------- Dependencies Summary
github.com/fatih/color
github.com/hashicorp/go-hclog
github.com/mattn/go-colorable
github.com/mattn/go-isatty
github.com/mitchellh/go-testing-interface

-------- License used by Dependencies
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: 243694369a59107b0d4d9f8822c97d9a
```

Provider: HashiCorp / Component(s): go-plugin 1.4.5

```
The source code for go-plugin can be found at https://github.com/hashicorp/
go-plugin/tree/v1.4.5

------------------------------ Top-Level License
 -------------------------------
SPDX:MPL-2.0
```

```
Mozilla Public License Version 2.0

1. Definitions

1.1. "Contributor" means each individual or legal entity that creates,
contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version" means the combination of the Contributions of
others (if any) used by a Contributor and that particular Contributor&apos;s
Contribution.

1.3. "Contribution" means Covered Software of a particular Contributor.

1.4. "Covered Software" means Source Code Form to which the initial
Contributor has attached the notice in Exhibit A, the Executable Form of
 such
Source Code Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses" means

(a) that the initial Contributor has attached the notice described in
 Exhibit
B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version
1.1 or earlier of the License, but not also under the terms of a Secondary
License.

1.6. "Executable Form" means any form of the work other than Source Code
 Form.

1.7. "Larger Work" means a work that combines Covered Software with other
material, in a separate file or files, that is not Covered Software.

1.8. "License" means this document.

1.9. "Licensable" means having the right to grant, to the maximum extent
possible, whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications" means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion
from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including
without limitation, method, process, and apparatus claims, in any patent
Licensable by such Contributor that would be infringed, but for the grant of
the License, by the making, using, selling, offering for sale, having made,
import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License,
 Version
2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero
General Public License, Version 3.0, or any later versions of those
 licenses.

1.13. "Source Code Form" means the form of the work preferred for making
modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising
```

```
rights under this License. For legal entities, "You" includes any entity
 that
controls, is controlled by, or is under common control with You. For
 purposes
of this definition, "control" means (a) the power, direct or indirect, to
cause the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available, modify,
display, perform, distribute, and otherwise exploit its Contributions,
 either
on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its Contributions or
its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become
effective for each Contribution on the date the Contributor first
 distributes
such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this
License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party&apos;s
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
 Version);
or

(c) under Patent Claims infringed by Covered Software in the absence of its
Contributions.

This License does not grant any rights in the trademarks, service marks, or
logos of any Contributor (except as may be necessary to comply with the
 notice
requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this License
(see Section 10.2) or under the terms of a Secondary License (if permitted
under the terms of Section 3.3).
```

```
2.5. Representation

Each Contributor represents that the Contributor believes its Contributions
are its original creation(s) or it has sufficient rights to grant the rights
to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable
copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under the
terms of this License. You must inform recipients that the Source Code Form
 of
the Covered Software is governed by the terms of this License, and how they
can obtain a copy of this License. You may not attempt to alter or restrict
the recipients rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form,
 as
described in Section 3.1, and You must inform recipients of the Executable
Form how they can obtain a copy of such Source Code Form by reasonable means
in a timely manner, at a charge no more than the cost of distribution to the
recipient; and

(b) You may distribute such Executable Form under the terms of this License,
or sublicense it under different terms, provided that the license for the
Executable Form does not attempt to limit or alter the recipients&apos;
 rights
in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for the
Covered Software. If the Larger Work is a combination of Covered Software
 with
a work governed by one or more Secondary Licenses, and the Covered Software
 is
not Incompatible With Secondary Licenses, this License permits You to
additionally distribute such Covered Software under the terms of such
Secondary License(s), so that the recipient of the Larger Work may, at their
option, further distribute the Covered Software under the terms of either
 this
License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including
```

```
copyright notices, patent notices, disclaimers of warranty, or limitations
 of
liability) contained within the Source Code Form of the Covered Software,
except that You may alter any license notices to the extent required to
 remedy
known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity
or liability obligations to one or more recipients of Covered Software.
However, You may do so only on Your own behalf, and not on behalf of any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity, or liability obligation is offered by You alone, and You
hereby agree to indemnify every Contributor for any liability incurred by
 such
Contributor as a result of warranty, support, indemnity or liability terms
 You
offer. You may include additional disclaimers of warranty and limitations of
liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute, judicial
order, or regulation then You must: (a) comply with the terms of this
 License
to the maximum extent possible; and (b) describe the limitations and the
 code
they affect. Such description must be placed in a text file included with
 all
distributions of the Covered Software under this License. Except to the
 extent
prohibited by statute or regulation, such description must be sufficiently
detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
fail to comply with any of its terms. However, if You become compliant, then
the rights granted under this License from a particular Contributor are
reinstated (a) provisionally, unless and until such Contributor explicitly
 and
finally terminates Your grants, and (b) on an ongoing basis, if such
Contributor fails to notify You of the non-compliance by some reasonable
 means
prior to 60 days after You have come back into compliance. Moreover, Your
grants from a particular Contributor are reinstated on an ongoing basis if
such Contributor notifies You of the non-compliance by some reasonable
 means,
this is the first time You have received notice of non-compliance with this
License from such Contributor, and You become compliant prior to 30 days
 after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions, counter-claims,
and cross-claims) alleging that a Contributor Version directly or indirectly
infringes any patent, then the rights granted to You by any and all
Contributors for the Covered Software under Section 2.1 of this License
 shall
terminate.
```

```
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
warranty of any kind, either expressed, implied, or statutory, including,
without limitation, warranties that the Covered Software is free of defects,
merchantable, fit for a particular purpose or non-infringing. The entire
 risk
as to the quality and performance of the Covered Software is with You.
 Should
any Covered Software prove defective in any respect, You (not any
 Contributor)
assume the cost of any necessary servicing, repair, or correction. This
disclaimer of warranty constitutes an essential part of this License. No use
of any Covered Software is authorized under this License except under this
disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
 other
commercial damages or losses, even if such party shall have been informed of
the possibility of such damages. This limitation of liability shall not
 apply
to liability for death or personal injury resulting from such party&apos;s
negligence to the extent applicable law prohibits such limitation. Some
jurisdictions do not allow the exclusion or limitation of incidental or
consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of
 a
jurisdiction where the defendant maintains its principal place of business
 and
such litigation shall be governed by laws of that jurisdiction, without
reference to its conflict-of-law provisions. Nothing in this Section shall
prevent a party&apos;s ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. Any law or regulation which provides that the language of a
contract shall be construed against the drafter shall not be used to
 construe
this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
 10.3,
no one other than the license steward has the right to modify or publish new
```

```
versions of this License. Each version will be given a distinguishing
 version
number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of
 the
License under which You originally received the Covered Software, or under
 the
terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create
 a
new license for such software, you may create and use a modified version of
this License if you rename the license and remove any references to the name
of the license steward (except to note that such modified license differs
 from
this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
 notice
described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by
the Mozilla Public License, v. 2.0.

---------------------------------- Copyright
 -----------------------------------
(no copyrights found)

-------------------------- Fourth Party Dependencies
 ---------------------------

----------------------------------- Licenses
 -----------------------------------
-  Apache-2.0
-  BSD-3-Clause--modified-by-Google
-  MIT
-  MPL-2.0
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/fatih/color

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Fatih Arslan

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright 2010 The Go Authors.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2016 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2018 The Go Authors.  All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/go-hclog

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2017 HashiCorp

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/yamux

== License Type
SPDX:MPL-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mattn/go-colorable
```

```
== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Yasuhiro Matsumoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mattn/go-isatty

== License Type
SPDX:MIT

== Copyright
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mitchellh/go-testing-interface

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Mitchell Hashimoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/oklog/run

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/net

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
```

```
== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
```

```
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/genproto

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright 2016 Google Inc.
Copyright 2019 Google LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
google.golang.org/grpc

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 gRPC authors.

------------------------------------ Licenses
 ------------------------------------
== SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
```

```
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
```

```
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by
 You to the Licensor shall be under the terms and conditions of this
 License, without any additional terms or conditions. Notwithstanding the
 above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may have executed with Licensor regarding such
 Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
```

```
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.



---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
```

```
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---------------------------------- (separator)
 -----------------------------------
== SPDX:MPL-2.0

Mozilla Public License Version 2.0

1. Definitions

1.1. "Contributor" means each individual or legal entity that creates,
contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version" means the combination of the Contributions of
others (if any) used by a Contributor and that particular Contributor&apos;s
Contribution.

1.3. "Contribution" means Covered Software of a particular Contributor.
```

```
1.4. "Covered Software" means Source Code Form to which the initial
Contributor has attached the notice in Exhibit A, the Executable Form of
 such
Source Code Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses" means

(a) that the initial Contributor has attached the notice described in
 Exhibit
B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version
1.1 or earlier of the License, but not also under the terms of a Secondary
License.

1.6. "Executable Form" means any form of the work other than Source Code
 Form.

1.7. "Larger Work" means a work that combines Covered Software with other
material, in a separate file or files, that is not Covered Software.

1.8. "License" means this document.

1.9. "Licensable" means having the right to grant, to the maximum extent
possible, whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications" means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion
from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including
without limitation, method, process, and apparatus claims, in any patent
Licensable by such Contributor that would be infringed, but for the grant of
the License, by the making, using, selling, offering for sale, having made,
import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License,
 Version
2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero
General Public License, Version 3.0, or any later versions of those
 licenses.

1.13. "Source Code Form" means the form of the work preferred for making
modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising
rights under this License. For legal entities, "You" includes any entity
 that
controls, is controlled by, or is under common control with You. For
 purposes
of this definition, "control" means (a) the power, direct or indirect, to
cause the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants
```

```
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available, modify,
display, perform, distribute, and otherwise exploit its Contributions,
 either
on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its Contributions or
its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become
effective for each Contribution on the date the Contributor first
 distributes
such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this
License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party&apos;s
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
 Version);
or

(c) under Patent Claims infringed by Covered Software in the absence of its
Contributions.

This License does not grant any rights in the trademarks, service marks, or
logos of any Contributor (except as may be necessary to comply with the
 notice
requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this License
(see Section 10.2) or under the terms of a Secondary License (if permitted
under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions
are its original creation(s) or it has sufficient rights to grant the rights
to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable
copyright doctrines of fair use, fair dealing, or other equivalents.
```

```
2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under the
terms of this License. You must inform recipients that the Source Code Form
 of
the Covered Software is governed by the terms of this License, and how they
can obtain a copy of this License. You may not attempt to alter or restrict
the recipients&apos; rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form,
 as
described in Section 3.1, and You must inform recipients of the Executable
Form how they can obtain a copy of such Source Code Form by reasonable means
in a timely manner, at a charge no more than the cost of distribution to the
recipient; and

(b) You may distribute such Executable Form under the terms of this License,
or sublicense it under different terms, provided that the license for the
Executable Form does not attempt to limit or alter the recipients&apos;
 rights
in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for the
Covered Software. If the Larger Work is a combination of Covered Software
 with
a work governed by one or more Secondary Licenses, and the Covered Software
 is
not Incompatible With Secondary Licenses, this License permits You to
additionally distribute such Covered Software under the terms of such
Secondary License(s), so that the recipient of the Larger Work may, at their
option, further distribute the Covered Software under the terms of either
 this
License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including
copyright notices, patent notices, disclaimers of warranty, or limitations
 of
liability) contained within the Source Code Form of the Covered Software,
except that You may alter any license notices to the extent required to
 remedy
known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity
or liability obligations to one or more recipients of Covered Software.
```

```
However, You may do so only on Your own behalf, and not on behalf of any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity, or liability obligation is offered by You alone, and You
hereby agree to indemnify every Contributor for any liability incurred by
 such
Contributor as a result of warranty, support, indemnity or liability terms
 You
offer. You may include additional disclaimers of warranty and limitations of
liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute, judicial
order, or regulation then You must: (a) comply with the terms of this
 License
to the maximum extent possible; and (b) describe the limitations and the
 code
they affect. Such description must be placed in a text file included with
 all
distributions of the Covered Software under this License. Except to the
 extent
prohibited by statute or regulation, such description must be sufficiently
detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
fail to comply with any of its terms. However, if You become compliant, then
the rights granted under this License from a particular Contributor are
reinstated (a) provisionally, unless and until such Contributor explicitly
 and
finally terminates Your grants, and (b) on an ongoing basis, if such
Contributor fails to notify You of the non-compliance by some reasonable
 means
prior to 60 days after You have come back into compliance. Moreover, Your
grants from a particular Contributor are reinstated on an ongoing basis if
such Contributor notifies You of the non-compliance by some reasonable
 means,
this is the first time You have received notice of non-compliance with this
License from such Contributor, and You become compliant prior to 30 days
 after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions, counter-claims,
and cross-claims) alleging that a Contributor Version directly or indirectly
infringes any patent, then the rights granted to You by any and all
Contributors for the Covered Software under Section 2.1 of this License
 shall
terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
warranty of any kind, either expressed, implied, or statutory, including,
without limitation, warranties that the Covered Software is free of defects,
merchantable, fit for a particular purpose or non-infringing. The entire
 risk
```

```
as to the quality and performance of the Covered Software is with You.
 Should
any Covered Software prove defective in any respect, You (not any
 Contributor)
assume the cost of any necessary servicing, repair, or correction. This
disclaimer of warranty constitutes an essential part of this License. No use
of any Covered Software is authorized under this License except under this
disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
 other
commercial damages or losses, even if such party shall have been informed of
the possibility of such damages. This limitation of liability shall not
 apply
to liability for death or personal injury resulting from such party&apos;s
negligence to the extent applicable law prohibits such limitation. Some
jurisdictions do not allow the exclusion or limitation of incidental or
consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of
 a
jurisdiction where the defendant maintains its principal place of business
 and
such litigation shall be governed by laws of that jurisdiction, without
reference to its conflict-of-law provisions. Nothing in this Section shall
prevent a party&apos;s ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. Any law or regulation which provides that the language of a
contract shall be construed against the drafter shall not be used to
 construe
this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
 10.3,
no one other than the license steward has the right to modify or publish new
versions of this License. Each version will be given a distinguishing
 version
number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of
 the
License under which You originally received the Covered Software, or under
 the
terms of any subsequent version published by the license steward.

10.3. Modified Versions
```

```
If you create software not governed by this License, and you want to create
 a
new license for such software, you may create and use a modified version of
this License if you rename the license and remove any references to the name
of the license steward (except to note that such modified license differs
 from
this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
 notice
described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by
the Mozilla Public License, v. 2.0.
```

Provider: HashiCorp / Component(s): go-plugin 1.6.0

```
------------------------------ Top-Level License
 -------------------------------
SPDX:MPL-2.0

----------------------------------- Copyright
 -----------------------------------
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) HashiCorp, Inc.

-------------------------- Fourth Party Dependencies
 ---------------------------

------------------------------------ Licenses
 ------------------------------------
-  Apache-2.0
-  BSD-3-Clause--modified-by-Google
-  MIT
-  MPL-2.0

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
github.com/fatih/color

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Fatih Arslan

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/golang/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/go-hclog

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2017 HashiCorp

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/yamux

== License Type
SPDX:MPL-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mattn/go-colorable

== License Type
SPDX:MIT
```

```
== Copyright
Copyright (c) 2016 Yasuhiro Matsumoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mattn/go-isatty

== License Type
SPDX:MIT

== Copyright
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mitchellh/go-testing-interface

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Mitchell Hashimoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/oklog/run

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/net

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
```

```
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
```

```
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/genproto

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2015, Google Inc.
Copyright 2016 Google Inc.
Copyright 2017 Google Inc.
Copyright 2018 Google Inc.
Copyright 2018 Google LLC
Copyright 2018 The Grafeas Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 Google LLC.
Copyright 2020 Google LLC

---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
```

```
Copyright 2022 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


------------------------------------ Licenses
 ------------------------------------
== SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.
```

```
"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
```

```
(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by
 You to the Licensor shall be under the terms and conditions of this
 License, without any additional terms or conditions. Notwithstanding the
 above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may have executed with Licensor regarding such
 Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.
```

```
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.



---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
```

```
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---------------------------------- (separator)
 -----------------------------------
== SPDX:MPL-2.0

Mozilla Public License Version 2.0

1. Definitions

1.1. "Contributor" means each individual or legal entity that creates,
```

```
contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version" means the combination of the Contributions of
others (if any) used by a Contributor and that particular Contributor&apos;s
Contribution.

1.3. "Contribution" means Covered Software of a particular Contributor.

1.4. "Covered Software" means Source Code Form to which the initial
Contributor has attached the notice in Exhibit A, the Executable Form of
 such
Source Code Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses" means

(a) that the initial Contributor has attached the notice described in
 Exhibit
B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version
1.1 or earlier of the License, but not also under the terms of a Secondary
License.

1.6. "Executable Form" means any form of the work other than Source Code
 Form.

1.7. "Larger Work" means a work that combines Covered Software with other
material, in a separate file or files, that is not Covered Software.

1.8. "License" means this document.

1.9. "Licensable" means having the right to grant, to the maximum extent
possible, whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications" means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion
from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including
without limitation, method, process, and apparatus claims, in any patent
Licensable by such Contributor that would be infringed, but for the grant of
the License, by the making, using, selling, offering for sale, having made,
import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License,
 Version
2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero
General Public License, Version 3.0, or any later versions of those
 licenses.

1.13. "Source Code Form" means the form of the work preferred for making
modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising
rights under this License. For legal entities, "You" includes any entity
 that
controls, is controlled by, or is under common control with You. For
 purposes
of this definition, "control" means (a) the power, direct or indirect, to
```

```
cause the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available, modify,
display, perform, distribute, and otherwise exploit its Contributions,
 either
on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its Contributions or
its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become
effective for each Contribution on the date the Contributor first
 distributes
such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this
License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party&apos;s
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
 Version);
or

(c) under Patent Claims infringed by Covered Software in the absence of its
Contributions.

This License does not grant any rights in the trademarks, service marks, or
logos of any Contributor (except as may be necessary to comply with the
 notice
requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this License
(see Section 10.2) or under the terms of a Secondary License (if permitted
under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions
are its original creation(s) or it has sufficient rights to grant the rights
```

```
to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable
copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under the
terms of this License. You must inform recipients that the Source Code Form
 of
the Covered Software is governed by the terms of this License, and how they
can obtain a copy of this License. You may not attempt to alter or restrict
the recipients&apos; rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form,
 as
described in Section 3.1, and You must inform recipients of the Executable
Form how they can obtain a copy of such Source Code Form by reasonable means
in a timely manner, at a charge no more than the cost of distribution to the
recipient; and

(b) You may distribute such Executable Form under the terms of this License,
or sublicense it under different terms, provided that the license for the
Executable Form does not attempt to limit or alter the recipients&apos;
 rights
in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for the
Covered Software. If the Larger Work is a combination of Covered Software
 with
a work governed by one or more Secondary Licenses, and the Covered Software
 is
not Incompatible With Secondary Licenses, this License permits You to
additionally distribute such Covered Software under the terms of such
Secondary License(s), so that the recipient of the Larger Work may, at their
option, further distribute the Covered Software under the terms of either
 this
License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including
copyright notices, patent notices, disclaimers of warranty, or limitations
 of
liability) contained within the Source Code Form of the Covered Software,
except that You may alter any license notices to the extent required to
 remedy
```

```
known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity
or liability obligations to one or more recipients of Covered Software.
However, You may do so only on Your own behalf, and not on behalf of any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity, or liability obligation is offered by You alone, and You
hereby agree to indemnify every Contributor for any liability incurred by
 such
Contributor as a result of warranty, support, indemnity or liability terms
 You
offer. You may include additional disclaimers of warranty and limitations of
liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute, judicial
order, or regulation then You must: (a) comply with the terms of this
 License
to the maximum extent possible; and (b) describe the limitations and the
 code
they affect. Such description must be placed in a text file included with
 all
distributions of the Covered Software under this License. Except to the
 extent
prohibited by statute or regulation, such description must be sufficiently
detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
fail to comply with any of its terms. However, if You become compliant, then
the rights granted under this License from a particular Contributor are
reinstated (a) provisionally, unless and until such Contributor explicitly
 and
finally terminates Your grants, and (b) on an ongoing basis, if such
Contributor fails to notify You of the non-compliance by some reasonable
 means
prior to 60 days after You have come back into compliance. Moreover, Your
grants from a particular Contributor are reinstated on an ongoing basis if
such Contributor notifies You of the non-compliance by some reasonable
 means,
this is the first time You have received notice of non-compliance with this
License from such Contributor, and You become compliant prior to 30 days
 after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions, counter-claims,
and cross-claims) alleging that a Contributor Version directly or indirectly
infringes any patent, then the rights granted to You by any and all
Contributors for the Covered Software under Section 2.1 of this License
 shall
terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
termination shall survive termination.
```

```
6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
warranty of any kind, either expressed, implied, or statutory, including,
without limitation, warranties that the Covered Software is free of defects,
merchantable, fit for a particular purpose or non-infringing. The entire
 risk
as to the quality and performance of the Covered Software is with You.
 Should
any Covered Software prove defective in any respect, You (not any
 Contributor)
assume the cost of any necessary servicing, repair, or correction. This
disclaimer of warranty constitutes an essential part of this License. No use
of any Covered Software is authorized under this License except under this
disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
 other
commercial damages or losses, even if such party shall have been informed of
the possibility of such damages. This limitation of liability shall not
 apply
to liability for death or personal injury resulting from such party&apos;s
negligence to the extent applicable law prohibits such limitation. Some
jurisdictions do not allow the exclusion or limitation of incidental or
consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of
 a
jurisdiction where the defendant maintains its principal place of business
 and
such litigation shall be governed by laws of that jurisdiction, without
reference to its conflict-of-law provisions. Nothing in this Section shall
prevent a party&apos;s ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. Any law or regulation which provides that the language of a
contract shall be construed against the drafter shall not be used to
 construe
this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
 10.3,
no one other than the license steward has the right to modify or publish new
versions of this License. Each version will be given a distinguishing
 version
number.

10.2. Effect of New Versions
```

```
You may distribute the Covered Software under the terms of the version of
 the
License under which You originally received the Covered Software, or under
 the
terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create
 a
new license for such software, you may create and use a modified version of
this License if you rename the license and remove any references to the name
of the license steward (except to note that such modified license differs
 from
this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
 notice
described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by
the Mozilla Public License, v. 2.0.
```

Provider: HashiCorp / Component(s): go-plugin e8d22c7

```
The Source Code of this JAR ____________ {development to identify the
 JAR that contains the MPL Bundle} is available under the Mozilla Public
 License, v. 2.0 and is located at _________ {development must provide a
 link to where Oracle makes the source form available under the MPL 2.0}. If
 a copy of the MPL was not distributed with this file, You can obtain one at
 http://mozilla.org/MPL/2.0/.
Software distributed under the License is distributed on an "AS IS" basis,
 WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 for the specific language governing rights and limitations under the
 License.

Mozilla Public License, version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
```

```
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor's Contribution.
1.3. "Contribution"
means Covered Software of a particular Contributor.
1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. "Incompatible With Secondary Licenses"
means
a. that the initial Contributor has attached the notice described in Exhibit
 B to the Covered Software; or
b. that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
1.6. "Executable Form"
means any form of the work other than Source Code Form.
1.7. "Larger Work"
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. "License"
means this document.
1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. "Modifications"
means any of the following:
a. any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or
b. any new file in Source Code Form that contains any Covered Software.
1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. "Source Code Form"
means the form of the work preferred for making modifications.
1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License.
 For legal entities, "You" includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 "control" means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
a. under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
b. under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.
```

```
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:
a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party's
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
c. under Patent Claims infringed by Covered Software in the absence of its
 Contributions.
This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
a. such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and
b. You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
```

```
3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
```

```
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
```

Provider: HashiCorp / Component(s): go-retryablehttp 0.7.1

```
github.com/hashicorp/go-retryablehttp
```

```
-------- Copyrights
  (no copyright notices found)

-------- License
Mozilla Public License Version 2.0

1. Definitions

1.1. "Contributor" means each individual or legal entity that creates,
contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version" means the combination of the Contributions of
others (if any) used by a Contributor and that particular Contributor&apos;s
Contribution.

1.3. "Contribution" means Covered Software of a particular Contributor.

1.4. "Covered Software" means Source Code Form to which the initial
Contributor has attached the notice in Exhibit A, the Executable Form of
 such
Source Code Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses" means

(a) that the initial Contributor has attached the notice described in
 Exhibit
B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version
1.1 or earlier of the License, but not also under the terms of a Secondary
License.

1.6. "Executable Form" means any form of the work other than Source Code
 Form.

1.7. "Larger Work" means a work that combines Covered Software with other
material, in a separate file or files, that is not Covered Software.

1.8. "License" means this document.

1.9. "Licensable" means having the right to grant, to the maximum extent
possible, whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications" means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion
from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including
without limitation, method, process, and apparatus claims, in any patent
Licensable by such Contributor that would be infringed, but for the grant of
the License, by the making, using, selling, offering for sale, having made,
import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License,
 Version
2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero
General Public License, Version 3.0, or any later versions of those
 licenses.
```

```
1.13. "Source Code Form" means the form of the work preferred for making
modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising
rights under this License. For legal entities, "You" includes any entity
 that
controls, is controlled by, or is under common control with You. For
 purposes
of this definition, "control" means (a) the power, direct or indirect, to
cause the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available, modify,
display, perform, distribute, and otherwise exploit its Contributions,
 either
on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its Contributions or
its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become
effective for each Contribution on the date the Contributor first
 distributes
such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this
License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party&apos;s
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
 Version);
or

(c) under Patent Claims infringed by Covered Software in the absence of its
Contributions.

This License does not grant any rights in the trademarks, service marks, or
logos of any Contributor (except as may be necessary to comply with the
 notice
requirements in Section 3.4).

2.4. Subsequent Licenses
```

```
No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this License
(see Section 10.2) or under the terms of a Secondary License (if permitted
under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions
are its original creation(s) or it has sufficient rights to grant the rights
to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable
copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under the
terms of this License. You must inform recipients that the Source Code Form
 of
the Covered Software is governed by the terms of this License, and how they
can obtain a copy of this License. You may not attempt to alter or restrict
the recipients&apos; rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form,
 as
described in Section 3.1, and You must inform recipients of the Executable
Form how they can obtain a copy of such Source Code Form by reasonable means
in a timely manner, at a charge no more than the cost of distribution to the
recipient; and

(b) You may distribute such Executable Form under the terms of this License,
or sublicense it under different terms, provided that the license for the
Executable Form does not attempt to limit or alter the recipients&apos;
 rights
in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for the
Covered Software. If the Larger Work is a combination of Covered Software
 with
a work governed by one or more Secondary Licenses, and the Covered Software
 is
not Incompatible With Secondary Licenses, this License permits You to
additionally distribute such Covered Software under the terms of such
Secondary License(s), so that the recipient of the Larger Work may, at their
option, further distribute the Covered Software under the terms of either
 this
License or such Secondary License(s).
```

```
3.4. Notices

You may not remove or alter the substance of any license notices (including
copyright notices, patent notices, disclaimers of warranty, or limitations
 of
liability) contained within the Source Code Form of the Covered Software,
except that You may alter any license notices to the extent required to
 remedy
known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity
or liability obligations to one or more recipients of Covered Software.
However, You may do so only on Your own behalf, and not on behalf of any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity, or liability obligation is offered by You alone, and You
hereby agree to indemnify every Contributor for any liability incurred by
 such
Contributor as a result of warranty, support, indemnity or liability terms
 You
offer. You may include additional disclaimers of warranty and limitations of
liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute, judicial
order, or regulation then You must: (a) comply with the terms of this
 License
to the maximum extent possible; and (b) describe the limitations and the
 code
they affect. Such description must be placed in a text file included with
 all
distributions of the Covered Software under this License. Except to the
 extent
prohibited by statute or regulation, such description must be sufficiently
detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
fail to comply with any of its terms. However, if You become compliant, then
the rights granted under this License from a particular Contributor are
reinstated (a) provisionally, unless and until such Contributor explicitly
 and
finally terminates Your grants, and (b) on an ongoing basis, if such
Contributor fails to notify You of the non-compliance by some reasonable
 means
prior to 60 days after You have come back into compliance. Moreover, Your
grants from a particular Contributor are reinstated on an ongoing basis if
such Contributor notifies You of the non-compliance by some reasonable
 means,
this is the first time You have received notice of non-compliance with this
License from such Contributor, and You become compliant prior to 30 days
 after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions, counter-claims,
and cross-claims) alleging that a Contributor Version directly or indirectly
infringes any patent, then the rights granted to You by any and all
```

```
Contributors for the Covered Software under Section 2.1 of this License
 shall
terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
warranty of any kind, either expressed, implied, or statutory, including,
without limitation, warranties that the Covered Software is free of defects,
merchantable, fit for a particular purpose or non-infringing. The entire
 risk
as to the quality and performance of the Covered Software is with You.
 Should
any Covered Software prove defective in any respect, You (not any
 Contributor)
assume the cost of any necessary servicing, repair, or correction. This
disclaimer of warranty constitutes an essential part of this License. No use
of any Covered Software is authorized under this License except under this
disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
 other
commercial damages or losses, even if such party shall have been informed of
the possibility of such damages. This limitation of liability shall not
 apply
to liability for death or personal injury resulting from such party&apos;s
negligence to the extent applicable law prohibits such limitation. Some
jurisdictions do not allow the exclusion or limitation of incidental or
consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of
 a
jurisdiction where the defendant maintains its principal place of business
 and
such litigation shall be governed by laws of that jurisdiction, without
reference to its conflict-of-law provisions. Nothing in this Section shall
prevent a party&apos;s ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. Any law or regulation which provides that the language of a
contract shall be construed against the drafter shall not be used to
 construe
this License against a Contributor.

10. Versions of the License

10.1. New Versions
```

```
Mozilla Foundation is the license steward. Except as provided in Section
 10.3,
no one other than the license steward has the right to modify or publish new
versions of this License. Each version will be given a distinguishing
 version
number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of
 the
License under which You originally received the Covered Software, or under
 the
terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create
 a
new license for such software, you may create and use a modified version of
this License if you rename the license and remove any references to the name
of the license steward (except to note that such modified license differs
 from
this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
 notice
described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by
the Mozilla Public License, v. 2.0.



----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/hashicorp/go-cleanhttp
-------- Copyrights
  (no copyright notices found)

-------- Dependencies Summary
github.com/hashicorp/go-cleanhttp
github.com/hashicorp/go-retryablehttp
```

```
-------- License used by Dependencies
Mozilla Public License Version 2.0
```

Provider: HashiCorp / Component(s): Terraform 0.11.13

```
Terraform 0.12.0-beta2

COPYRIGHT: (C) Hashicorp

LICENSE: MPL v2.0

Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.

1.8. “License”
```

```
     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.

1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
```

```
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.

2.6. Fair Use
```

```
     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices
```

```
     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
```

```
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party’s negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a party’s ability to bring cross-claims or counter-claims.
```

```
9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
 v.
 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.
```

```
Exhibit B - “Incompatible With Secondary Licenses” Notice

      This Source Code Form is “Incompatible
      With Secondary Licenses”, as defined by
      the Mozilla Public License, v. 2.0.




**********************************
4P Dependencies:
**********************************


google.golang.org/grpc/tap commit 028242f
google.golang.org/grpc/status commit 028242f
google.golang.org/grpc/stats commit 028242f
google.golang.org/grpc/peer commit 028242f
google.golang.org/grpc/naming commit 028242f
google.golang.org/grpc/metadata commit 028242f
google.golang.org/grpc/keepalive commit 028242f
google.golang.org/grpc/internal commit 028242f
google.golang.org/grpc/health commit 028242f
google.golang.org/grpc/grpclog commit 028242f
google.golang.org/grpc/credentials commit 028242f
google.golang.org/grpc/connectivity commit 028242f
google.golang.org/grpc/codes commit 028242f

COPYRIGHT and LICENSE:
 * Copyright 2015 gRPC authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
```

```
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
```

```
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
```

```
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



===
google.golang.org/genproto/googleapis commit 54afdca
COPYRIGHT: Copyright 2016 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/go-genproto/
blob/54afdca5d873f7b529e2ce3def1a99df16feda90/LICENSE



===
google.golang.org/appengine/urlfetch commit 54a98f9
google.golang.org/appengine/internal commit 54a98f9
COPYRIGHT: Copyright 2011 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE



===
google.golang.org/api/transport commit 680697c
google.golang.org/api/storage commit 680697c
google.golang.org/api/option commit 680697c
google.golang.org/api/iterator commit 680697c
google.golang.org/api/internal commit 680697c
google.golang.org/api/googleapi commit 680697c
google.golang.org/api/gensupport commit 680697c

COPYRIGHT:
Copyright (c) 2011 Google Inc. All rights reserved.

LICENSE: BSD 3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
golang.org/x/time 0.0.0-20190308202827-9d24e82272b4
golang.org/x/text 0.3.1-0.20180807135948-17ff2d5776d2
golang.org/x/sys 0.0.0-20190222072716-a9d3bda3a223
golang.org/x/oauth2 0.0.0-20190220154721-9b3c75971fc9
golang.org/x/net 0.0.0-20190311183353-d8887717615a
golang.org/x/crypto 0.0.0-20190308221718-c2843e01d9a2

COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD-3 Clause



===
github.com/zclconf/go-cty 0.0.0-20190426224007-b18a157db9e2
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins

LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



===
github.com/xlab/treeprint 0.0.0-20161029104018-1d6e34225557
COPYRIGHT: Copyright © 2016 Maxim Kupriianov <max@kc.vc>
LICENSE: The MIT License (MIT)


===
```

```
github.com/xanzy/ssh-agent 0.2.1
COPYRIGHT:
Copyright (c) 2014 David Mzareulyan
Copyright 2015, Sander van Harmelen
LICENSE: Apache 2.0 https://github.com/xanzy/ssh-agent/blob/v0.2.1/LICENSE


===
github.com/Unknwon/com 0.0.0-20151008135407-28b053d5a292
COPYRIGHT:
Copyright 2013 - 2015 com authors
LICENSE: Apache 2.0 https://github.com/Unknwon/com/
blob/28b053d5a2923b87ce8c5a08f3af779894a72758/LICENSE


===
github.com/ulikunitz/xz 0.5.5
COPYRIGHT: Copyright (c) 2014-2016  Ulrich Kunitz. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/ugorji/go 0.0.0-20180813092308-00b869d2f4a5
COPYRIGHT: Copyright (c) 2012-2015 Ugorji Nwoke. All rights reserved.
LICENSE: The MIT License (MIT)


===
github.com/terraform-providers/terraform-provider-openstack 1.15.0
COPYRIGHT: (c) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
openstack/blob/v1.15.0/LICENSE



===
github.com/svanharmelen/jsonapi 0.0.0-20180618144545-0c0828c3f16d
COPYRIGHT: Copyright (c) 2015 Google Inc.
LICENSE: The MIT License (MIT)


===
github.com/spf13/afero 1.2.1

COPYRIGHT:
Copyright © 2014 Steve Francia <spf@spf13.com>.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 tsuru authors. All rights reserved.

LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/v1.2.1/LICENSE.txt



===
github.com/satori/go.uuid 1.2.0
COPYRIGHT: Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>
LICENSE: The MIT License (MIT)


===
github.com/posener/complete 1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)
```

```
===
github.com/pkg/errors 0.0.0-20170505043639-c605e284fe17
COPYRIGHT: Copyright (c) 2015, Dave Cheney <dave@cheney.net> All rights
 reserved.

LICENSE: BSD 2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


===
github.com/packer-community/winrmcp 0.0.0-20180102160824-81144009af58
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/oklog/run 1.0.0
No Copyright info
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/v1.0.0/LICENSE



===
github.com/nu7hatch/gouuid 0.0.0-20131221200532-179d4d0c4d8d
COPYRIGHT: Copyright (C) 2011 by Krzysztof Kowalik <chris@nu7hat.ch>
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/reflectwalk 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/prefixedio 0.0.0-20190213213902-5733675afd51
COPYRIGHT: Copyright (c) 2015 Mitchell Hashimoto
```

```
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/panicwrap 0.0.0-20190213213626-17011010aaa4
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/mapstructure 1.1.2
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/hashstructure 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)



===
github.com/mitchellh/go-wordwrap 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-testing-interface 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-linereader 0.0.0-20190213213312-1b945b3263eb
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-homedir 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/copystructure 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/colorstring 0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/cli 1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/v1.0.0/LICENSE
```

```
===
github.com/mattn/go-shellwords 1.0.4
COPYRIGHT: Copyright (c) 2017 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-isatty 0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-colorable 0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/masterzen/winrm 0.0.0-20190223112901-5e5c9a7fe54b
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/winrm/
blob/5e5c9a7fe54b25590c464f78841431cb803dcb66/LICENSE


===
github.com/masterzen/simplexml 0.0.0-20160608183007-4572e39b1ab9
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/simplexml/
blob/4572e39b1ab9fe03ee513ce6fc7e289e98482190/LICENSE



===
github.com/lusis/go-artifactory 0.0.0-20160115162124-7e4ce345df82
COPYRIGHT and LICENSE:
Apache License, Version 2.0

Copyright (c) 2016 John E. Vincent

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


===
github.com/keybase/go-crypto 0.0.0-20161004153544-93f5b35093ba
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/kardianos/osext 0.0.0-20190222173326-2bc1f35cddc0
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause
```

```
===
github.com/joyent/triton-go 0.0.0-20180313100802-d8f9c0314926
COPYRIGHT: Copyright (c) 2018, Joyent, Inc. All rights reserved.
LICENSE: MPL v2.0 https://github.com/joyent/triton-go/blob/
d8f9c031492688b4b62b7fd29b1edd9897400c4e/LICENSE


===
github.com/jmespath/go-jmespath 0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



===
github.com/hashicorp/yamux 0.0.0-20180604194846-3520598351bb
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/yamux/
blob/3520598351bb3500a49ae9563f5539666ae0a27c/LICENSE


===
github.com/hashicorp/vault 0.10.4
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/vault/blob/v0.10.4/LICENSE


===
github.com/hashicorp/serf 0.0.0-20160124182025-e4ec8cc423bb
COPYRIGHT: Copyright (C) Hashicorp 2013
LICENSE: MPL v2.0 https://github.com/hashicorp/serf/blob/
e4ec8cc423bbe20d26584b96efbeb9102e16d05f/LICENSE


===
github.com/hashicorp/logutils 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/logutils/blob/v1.0.0/LICENSE


===
github.com/hashicorp/hil 0.0.0-20190212112733-ab17b08d6590
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hil/blob/
ab17b08d659065faac4f4fbe15edaae0bc7b17df/LICENSE


===
github.com/hashicorp/hcl2 0.0.0-20190416162332-2c5a4b7d729a
COPYRIGHT: 2018, HashiCorp
```

```
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl2/
blob/2c5a4b7d729a77cfb28562d43e248d9080f4cada/LICENSE


===
github.com/hashicorp/hcl 0.0.0-20170504190234-a4b07c25de5f
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl/blob/
a4b07c25de5ff55ad3b8936cea69a79a3d95a855/LICENSE


===
github.com/hashicorp/go-version 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-version/blob/v1.1.0/
LICENSE


===
github.com/hashicorp/go-uuid 1.0.1
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-uuid/blob/v1.0.1/LICENSE


===
github.com/hashicorp/go-tfe 0.3.16
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-tfe/blob/v0.3.16/LICENSE


===
github.com/hashicorp/go-slug 0.3.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-slug/blob/v0.3.0/LICENSE


===
github.com/hashicorp/go-safetemp 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-safetemp/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-rootcerts 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-rootcerts/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-retryablehttp 0.5.2
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-retryablehttp/blob/v0.5.2/
LICENSE


===
github.com/hashicorp/go-plugin 0.0.0-20190322172744-52e1c4730856
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-plugin/
blob/52e1c4730856c1438ced7597c9b5c585a7bd06a2/LICENSE
```

```
===
github.com/hashicorp/go-multierror 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-multierror/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-hclog 0.0.0-20181001195459-61d530d6c27f
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT)


===
github.com/hashicorp/go-getter 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-getter/blob/v1.1.0/LICENSE


===
github.com/hashicorp/go-cleanhttp 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-cleanhttp/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/go-checkpoint 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-checkpoint/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/errwrap 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/errwrap/blob/v1.0.0/LICENSE


===
github.com/hashicorp/consul 0.0.0-20171026175957-610f3c86a089
COPYRIGHT: Copyright © 2014-2018 HashiCorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/consul/
blob/610f3c86a089817b5bd5729a3b8c2db33a9ae2b0/LICENSE


===
github.com/go-test/deep 1.0.1
COPYRIGHT: Copyright 2015-2017 Daniel Nichter
LICENSE: The MIT License (MIT)


===
github.com/gophercloud/utils 0.0.0-20190128072930-fbb6ab446f01
No Copyright Info
LICENSE: Apache 2.0 https://github.com/gophercloud/utils/blob/
fbb6ab446f0167dfa4d25b8eb0c0d2f873924516/LICENSE


===
github.com/gophercloud/gophercloud 0.0.0-20190208042652-bc37892e1968
COPYRIGHT: Copyright 2012-2013 Rackspace, Inc.
LICENSE: Apache 2.0 https://github.com/gophercloud/gophercloud/blob/
bc37892e196848d7d56ba0db974ba1d7d5c43b2a/LICENSE
```

```
===
github.com/googleapis/gax-go commit 9e33419
COPYRIGHT: Copyright 2016, Google Inc. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-querystring 1.0.0
COPYRIGHT: Copyright (c) 2013 Google. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/golang/protobuf 1.3.0
COPYRIGHT: Copyright 2010 The Go Authors.  All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/dylanmei/winrmtest 0.0.0-20190225150635-99b7fe2fddf1
COPYRIGHT: Copyright (c) 2014-2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/dylanmei/iso8601 0.1.0
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)


===
github.com/dgrijalva/jwt-go 3.2.0+incompatible
COPYRIGHT: Copyright (c) 2012 Dave Grijalva
LICENSE: The MIT License (MIT)



===
github.com/davecgh/go-spew 1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



===
```

```
github.com/coreos/go-semver 0.2.0
COPYRIGHT: Copyright 2018 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/coreos/go-semver/blob/v0.2.0/LICENSE


===
github.com/coreos/etcd 3.3.10+incompatible
COPYRIGHT: Copyright 2014 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/etcd-io/etcd/blob/v3.3.10/LICENSE


===
github.com/chzyer/readline 0.0.0-20161106042343-c914be64f07d
COPYRIGHT: Copyright (c) 2015 Chzyer
LICENSE: The MIT License (MIT)


===
github.com/ChrisTrenkamp/goxpath 0.0.0-20170922090931-c385f95c6022
COPYRIGHT: Copyright (c) 2015 ChrisTrenkamp
LICENSE: The MIT License (MIT)



===
github.com/blang/semver 3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)


===
github.com/bgentry/speakeasy 0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)


===
github.com/bgentry/go-netrc 0.0.0-20140422174119-9fd32a8b3d3d

COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)



===
github.com/Azure/go-ntlmssp 0.0.0-20180810175552-4a21cbd618b4
COPYRIGHT: Copyright (c) 2016 Microsoft
LICENSE: The MIT License (MIT)


===
github.com/Azure/go-autorest 10.15.4+incompatible
COPYRIGHT: Copyright 2017 Microsoft Corporation
LICENSE: Apache 2.0 https://github.com/Azure/go-autorest/blob/v10.15.4/
LICENSE


===
github.com/Azure/azure-sdk-for-go 21.3.0+incompatible
COPYRIGHT: Copyright 2014-2017 Microsoft
```

```
LICENSE: Apache 2.0 https://github.com/Azure/azure-sdk-for-go/blob/v21.3.0/
LICENSE


===
github.com/aws/aws-sdk-go 1.19.18
COPYRIGHT:
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/v1.19.18/
LICENSE.txt


===
github.com/armon/go-radix 1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)


===
github.com/armon/circbuf 0.0.0-20190214190532-5111143e8da2
COPYRIGHT: Copyright (c) 2013 Armon Dadgar
LICENSE: The MIT License (MIT)



===
github.com/apparentlymart/go-textseg 1.0.0

COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)


---------

Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.

---------

Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
```

```
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



===
github.com/apparentlymart/go-cidr 1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)


===
github.com/antchfx/xquery 0.0.0-20180515051857-ad5b8c7a47b0
```

```
COPYRIGHT: Copyright W3Schools.com
LICENSE: The MIT License (MIT)


====
github.com/antchfx/xpath 0.0.0-20190129040759-c8489ed3251e
COPYRIGHT: No Copyright
LICENSE: The MIT License (MIT)


===
github.com/agl/ed25519 0.0.0-20150830182803-278e1ec8e8a6
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause




github.com/agext/levenshtein 1.2.2
COPYRIGHT: Copyright 2016 ALRUX Inc.
LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/v1.2.2/LICENSE


===
cloud.google.com/go/storage commit 09ad026
cloud.google.com/go/internal commit 09ad026
cloud.google.com/go/iam commit 09ad026
cloud.google.com/go/compute commit 09ad026

COPYRIGHT: Copyright 2016 - 2018 Google LLC
LICENSE: Apache 2.0 https://github.com/googleapis/google-cloud-go/
blob/09ad026a62f0561b7f7e276569eda11a6afc9773/LICENSE



===
github.com/apparentlymart/go-dump 0.0.0-20190214190832-042adf3cf4a0
COPYRIGHT: Maintainer Martin Atkins
LICENSE: MPL v2.0 https://github.com/apparentlymart/go-dump/
blob/042adf3cf4a03793be12db534f39eb4707c3b5cd/LICENSE


===
github.com/dimchansky/utfbom 1.0.0
COPYRIGHT: Maintainer Dmitrij Koniajev
LICENSE: Apache 2.0 https://github.com/dimchansky/utfbom/blob/v1.0.0/LICENSE


===
github.com/fatih/color 1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT)


===
github.com/gogo/protobuf 1.2.0

COPYRIGHT:
Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets
Go support for Protocol Buffers - Google's data interchange format
Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf
```

```
LICENSE: BSD 3-Clause


===
github.com/golang/mock 1.2.0
COPYRIGHT: Copyright 2010 - 2011 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/mock/blob/v1.2.0/LICENSE


===
github.com/golang/snappy 0.0.0-20180518054509-2e65f85255db
COPYRIGHT: Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-cmp 0.2.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/hashicorp/aws-sdk-go-base 0.2.0
COPYRIGHT: (C) Hashicorp
LICENSE: MPL v2.0 https://github.com/hashicorp/aws-sdk-go-base/blob/v0.2.0/
LICENSE


===
github.com/hashicorp/go-azure-helpers 0.0.0-20190129193224-166dfd221bb2
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/go-azure-helpers/
blob/166dfd221bb20c95f9db5be961c647a67646831e/LICENSE


===
github.com/hashicorp/terraform-config-inspect
 0.0.0-20190327195015-8022a2663a70
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/terraform-config-inspect/
blob/8022a2663a706bf2f36bfaf7968a9234f9e5a571/LICENSE


===
github.com/lib/pq 1.0.0
COPYRIGHT and LICENSE:

Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
```

```
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


===
github.com/marstr/guid 1.1.0
COPYRIGHT: Copyright (c) 2016 Martin Strobel
LICENSE: The MIT License (MIT)


==
github.com/vmihailenco/msgpack 4.0.1+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 3-Clause


===
https://github.com/census-instrumentation/opencensus-go commit 17d7955
COPYRIGHT: Copyright 2018, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-instrumentation/opencensus-go/
blob/17d7955af9d42886455ce010dd46878208041a58/LICENSE


===
google.golang.org/appengine/datastore commit 54a98f9
COPYRIGHT: Copyright 2013 - 2018 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE


===
google.golang.org/grpc/balancer commit 4b60e3b
google.golang.org/grpc/binarylog commit 4b60e3b
google.golang.org/grpc/encoding commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/
blob/4b60e3b6a1900853971945c616869c0fc211ac75/LICENSE
```

Provider: HashiCorp / Component(s): Terraform 0.11.15-oci

```
Terraform 0.12.0-beta2

COPYRIGHT: (C) Hashicorp

LICENSE: MPL v2.0

Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”
```

```
     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.

1.8. “License”

     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.

1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
```

```
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
```

```
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.
```

```
3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation
```

```
   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
```

```
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party's negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions
```

```
      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
 v.
 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

      This Source Code Form is "Incompatible
      With Secondary Licenses", as defined by
      the Mozilla Public License, v. 2.0.




********************************
4P Dependencies:
********************************


google.golang.org/grpc/tap commit 028242f
google.golang.org/grpc/status commit 028242f
google.golang.org/grpc/stats commit 028242f
google.golang.org/grpc/peer commit 028242f
google.golang.org/grpc/naming commit 028242f
google.golang.org/grpc/metadata commit 028242f
google.golang.org/grpc/keepalive commit 028242f
google.golang.org/grpc/internal commit 028242f
google.golang.org/grpc/health commit 028242f
google.golang.org/grpc/grpclog commit 028242f
google.golang.org/grpc/credentials commit 028242f
google.golang.org/grpc/connectivity commit 028242f
```

```
google.golang.org/grpc/codes commit 028242f

COPYRIGHT and LICENSE:
 * Copyright 2015 gRPC authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
```

```
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
```

```
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



===
google.golang.org/genproto/googleapis commit 54afdca
COPYRIGHT: Copyright 2016 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/go-genproto/
blob/54afdca5d873f7b529e2ce3def1a99df16feda90/LICENSE
```

```
===
google.golang.org/appengine/urlfetch commit 54a98f9
google.golang.org/appengine/internal commit 54a98f9
COPYRIGHT: Copyright 2011 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE



===
google.golang.org/api/transport commit 680697c
google.golang.org/api/storage commit 680697c
google.golang.org/api/option commit 680697c
google.golang.org/api/iterator commit 680697c
google.golang.org/api/internal commit 680697c
google.golang.org/api/googleapi commit 680697c
google.golang.org/api/gensupport commit 680697c

COPYRIGHT:
Copyright (c) 2011 Google Inc. All rights reserved.

LICENSE: BSD 3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
golang.org/x/time 0.0.0-20190308202827-9d24e82272b4
golang.org/x/text 0.3.1-0.20180807135948-17ff2d5776d2
golang.org/x/sys 0.0.0-20190222072716-a9d3bda3a223
golang.org/x/oauth2 0.0.0-20190220154721-9b3c75971fc9
golang.org/x/net 0.0.0-20190311183353-d8887717615a
golang.org/x/crypto 0.0.0-20190308221718-c2843e01d9a2

COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD-3 Clause
```

```
===
github.com/zclconf/go-cty 0.0.0-20190426224007-b18a157db9e2
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins

LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



===
github.com/xlab/treeprint 0.0.0-20161029104018-1d6e34225557
COPYRIGHT: Copyright © 2016 Maxim Kupriianov <max@kc.vc>
LICENSE: The MIT License (MIT)


===
github.com/xanzy/ssh-agent 0.2.1
COPYRIGHT:
Copyright (c) 2014 David Mzareulyan
Copyright 2015, Sander van Harmelen
LICENSE: Apache 2.0 https://github.com/xanzy/ssh-agent/blob/v0.2.1/LICENSE


===
github.com/Unknwon/com 0.0.0-20151008135407-28b053d5a292
COPYRIGHT:
Copyright 2013 - 2015 com authors
LICENSE: Apache 2.0 https://github.com/Unknwon/com/
blob/28b053d5a2923b87ce8c5a08f3af779894a72758/LICENSE


===
github.com/ulikunitz/xz 0.5.5
COPYRIGHT: Copyright (c) 2014-2016  Ulrich Kunitz. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/ugorji/go 0.0.0-20180813092308-00b869d2f4a5
COPYRIGHT: Copyright (c) 2012-2015 Ugorji Nwoke. All rights reserved.
```

```
LICENSE: The MIT License (MIT)


===
github.com/terraform-providers/terraform-provider-openstack 1.15.0
COPYRIGHT: (c) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
openstack/blob/v1.15.0/LICENSE



===
github.com/svanharmelen/jsonapi 0.0.0-20180618144545-0c0828c3f16d
COPYRIGHT: Copyright (c) 2015 Google Inc.
LICENSE: The MIT License (MIT)


===
github.com/spf13/afero 1.2.1

COPYRIGHT:
Copyright © 2014 Steve Francia <spf@spf13.com>.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 tsuru authors. All rights reserved.

LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/v1.2.1/LICENSE.txt



===
github.com/satori/go.uuid 1.2.0
COPYRIGHT: Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>
LICENSE: The MIT License (MIT)


===
github.com/posener/complete 1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)


===
github.com/pkg/errors 0.0.0-20170505043639-c605e284fe17
COPYRIGHT: Copyright (c) 2015, Dave Cheney <dave@cheney.net> All rights
 reserved.

LICENSE: BSD 2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
```

```
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


===
github.com/packer-community/winrmcp 0.0.0-20180102160824-81144009af58
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/oklog/run 1.0.0
No Copyright info
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/v1.0.0/LICENSE



===
github.com/nu7hatch/gouuid 0.0.0-20131221200532-179d4d0c4d8d
COPYRIGHT: Copyright (C) 2011 by Krzysztof Kowalik <chris@nu7hat.ch>
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/reflectwalk 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/prefixedio 0.0.0-20190213213902-5733675afd51
COPYRIGHT: Copyright (c) 2015 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/panicwrap 0.0.0-20190213213626-17011010aaa4
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/mapstructure 1.1.2
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/hashstructure 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)



===
github.com/mitchellh/go-wordwrap 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
```

```
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-testing-interface 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-linereader 0.0.0-20190213213312-1b945b3263eb
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-homedir 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/copystructure 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/colorstring 0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/cli 1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/v1.0.0/LICENSE



===
github.com/mattn/go-shellwords 1.0.4
COPYRIGHT: Copyright (c) 2017 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-isatty 0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-colorable 0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/masterzen/winrm 0.0.0-20190223112901-5e5c9a7fe54b
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/winrm/
blob/5e5c9a7fe54b25590c464f78841431cb803dcb66/LICENSE
```

```
===
github.com/masterzen/simplexml 0.0.0-20160608183007-4572e39b1ab9
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/simplexml/
blob/4572e39b1ab9fe03ee513ce6fc7e289e98482190/LICENSE



===
github.com/lusis/go-artifactory 0.0.0-20160115162124-7e4ce345df82
COPYRIGHT and LICENSE:
Apache License, Version 2.0

Copyright (c) 2016 John E. Vincent

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


===
github.com/keybase/go-crypto 0.0.0-20161004153544-93f5b35093ba
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/kardianos/osext 0.0.0-20190222173326-2bc1f35cddc0
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/joyent/triton-go 0.0.0-20180313100802-d8f9c0314926
COPYRIGHT: Copyright (c) 2018, Joyent, Inc. All rights reserved.
LICENSE: MPL v2.0 https://github.com/joyent/triton-go/blob/
d8f9c031492688b4b62b7fd29b1edd9897400c4e/LICENSE


===
github.com/jmespath/go-jmespath 0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
===
github.com/hashicorp/yamux 0.0.0-20180604194846-3520598351bb
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/yamux/
blob/3520598351bb3500a49ae9563f5539666ae0a27c/LICENSE


===
github.com/hashicorp/vault 0.10.4
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/vault/blob/v0.10.4/LICENSE


===
github.com/hashicorp/serf 0.0.0-20160124182025-e4ec8cc423bb
COPYRIGHT: Copyright (C) Hashicorp 2013
LICENSE: MPL v2.0 https://github.com/hashicorp/serf/blob/
e4ec8cc423bbe20d26584b96efbeb9102e16d05f/LICENSE


===
github.com/hashicorp/logutils 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/logutils/blob/v1.0.0/LICENSE


===
github.com/hashicorp/hil 0.0.0-20190212112733-ab17b08d6590
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hil/blob/
ab17b08d659065faac4f4fbe15edaae0bc7b17df/LICENSE


===
github.com/hashicorp/hcl2 0.0.0-20190416162332-2c5a4b7d729a
COPYRIGHT: 2018, HashiCorp
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl2/
blob/2c5a4b7d729a77cfb28562d43e248d9080f4cada/LICENSE


===
github.com/hashicorp/hcl 0.0.0-20170504190234-a4b07c25de5f
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl/blob/
a4b07c25de5ff55ad3b8936cea69a79a3d95a855/LICENSE


===
github.com/hashicorp/go-version 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-version/blob/v1.1.0/
LICENSE


===
github.com/hashicorp/go-uuid 1.0.1
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-uuid/blob/v1.0.1/LICENSE


===
```

```
github.com/hashicorp/go-tfe 0.3.16
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-tfe/blob/v0.3.16/LICENSE


===
github.com/hashicorp/go-slug 0.3.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-slug/blob/v0.3.0/LICENSE


===
github.com/hashicorp/go-safetemp 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-safetemp/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-rootcerts 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-rootcerts/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-retryablehttp 0.5.2
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-retryablehttp/blob/v0.5.2/
LICENSE


===
github.com/hashicorp/go-plugin 0.0.0-20190322172744-52e1c4730856
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-plugin/
blob/52e1c4730856c1438ced7597c9b5c585a7bd06a2/LICENSE


===
github.com/hashicorp/go-multierror 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-multierror/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-hclog 0.0.0-20181001195459-61d530d6c27f
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT)


===
github.com/hashicorp/go-getter 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-getter/blob/v1.1.0/LICENSE


===
github.com/hashicorp/go-cleanhttp 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-cleanhttp/blob/v0.5.0/
LICENSE
```

```
===
github.com/hashicorp/go-checkpoint 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-checkpoint/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/errwrap 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/errwrap/blob/v1.0.0/LICENSE


===
github.com/hashicorp/consul 0.0.0-20171026175957-610f3c86a089
COPYRIGHT: Copyright © 2014-2018 HashiCorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/consul/
blob/610f3c86a089817b5bd5729a3b8c2db33a9ae2b0/LICENSE


===
github.com/go-test/deep 1.0.1
COPYRIGHT: Copyright 2015-2017 Daniel Nichter
LICENSE: The MIT License (MIT)


===
github.com/gophercloud/utils 0.0.0-20190128072930-fbb6ab446f01
No Copyright Info
LICENSE: Apache 2.0 https://github.com/gophercloud/utils/blob/
fbb6ab446f0167dfa4d25b8eb0c0d2f873924516/LICENSE


===
github.com/gophercloud/gophercloud 0.0.0-20190208042652-bc37892e1968
COPYRIGHT: Copyright 2012-2013 Rackspace, Inc.
LICENSE: Apache 2.0 https://github.com/gophercloud/gophercloud/blob/
bc37892e196848d7d56ba0db974ba1d7d5c43b2a/LICENSE


===
github.com/googleapis/gax-go commit 9e33419
COPYRIGHT: Copyright 2016, Google Inc. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-querystring 1.0.0
COPYRIGHT: Copyright (c) 2013 Google. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/golang/protobuf 1.3.0
COPYRIGHT: Copyright 2010 The Go Authors.  All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/dylanmei/winrmtest 0.0.0-20190225150635-99b7fe2fddf1
COPYRIGHT: Copyright (c) 2014-2015 Dylan Meissner
```

```
LICENSE: The MIT License (MIT)



===
github.com/dylanmei/iso8601 0.1.0
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)


===
github.com/dgrijalva/jwt-go 3.2.0+incompatible
COPYRIGHT: Copyright (c) 2012 Dave Grijalva
LICENSE: The MIT License (MIT)



===
github.com/davecgh/go-spew 1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



===
github.com/coreos/go-semver 0.2.0
COPYRIGHT: Copyright 2018 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/coreos/go-semver/blob/v0.2.0/LICENSE


===
github.com/coreos/etcd 3.3.10+incompatible
COPYRIGHT: Copyright 2014 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/etcd-io/etcd/blob/v3.3.10/LICENSE


===
github.com/chzyer/readline 0.0.0-20161106042343-c914be64f07d
COPYRIGHT: Copyright (c) 2015 Chzyer
LICENSE: The MIT License (MIT)


===
github.com/ChrisTrenkamp/goxpath 0.0.0-20170922090931-c385f95c6022
COPYRIGHT: Copyright (c) 2015 ChrisTrenkamp
LICENSE: The MIT License (MIT)



===
```

```
github.com/blang/semver 3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)


===
github.com/bgentry/speakeasy 0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)


===
github.com/bgentry/go-netrc 0.0.0-20140422174119-9fd32a8b3d3d

COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)



===
github.com/Azure/go-ntlmssp 0.0.0-20180810175552-4a21cbd618b4
COPYRIGHT: Copyright (c) 2016 Microsoft
LICENSE: The MIT License (MIT)


===
github.com/Azure/go-autorest 10.15.4+incompatible
COPYRIGHT: Copyright 2017 Microsoft Corporation
LICENSE: Apache 2.0 https://github.com/Azure/go-autorest/blob/v10.15.4/
LICENSE


===
github.com/Azure/azure-sdk-for-go 21.3.0+incompatible
COPYRIGHT: Copyright 2014-2017 Microsoft
LICENSE: Apache 2.0 https://github.com/Azure/azure-sdk-for-go/blob/v21.3.0/
LICENSE


===
github.com/aws/aws-sdk-go 1.19.18
COPYRIGHT:
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/v1.19.18/
LICENSE.txt


===
github.com/armon/go-radix 1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)


===
github.com/armon/circbuf 0.0.0-20190214190532-5111143e8da2
COPYRIGHT: Copyright (c) 2013 Armon Dadgar
LICENSE: The MIT License (MIT)
```

```
===
github.com/apparentlymart/go-textseg 1.0.0

COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)


---------

Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.

---------

Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.
```

```
Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



===
github.com/apparentlymart/go-cidr 1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)


===
github.com/antchfx/xquery 0.0.0-20180515051857-ad5b8c7a47b0
COPYRIGHT: Copyright W3Schools.com
LICENSE: The MIT License (MIT)


====
github.com/antchfx/xpath 0.0.0-20190129040759-c8489ed3251e
COPYRIGHT: No Copyright
LICENSE: The MIT License (MIT)


===
github.com/agl/ed25519 0.0.0-20150830182803-278e1ec8e8a6
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause




github.com/agext/levenshtein 1.2.2
COPYRIGHT: Copyright 2016 ALRUX Inc.
LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/v1.2.2/LICENSE


===
cloud.google.com/go/storage commit 09ad026
```

```
cloud.google.com/go/internal commit 09ad026
cloud.google.com/go/iam commit 09ad026
cloud.google.com/go/compute commit 09ad026

COPYRIGHT: Copyright 2016 - 2018 Google LLC
LICENSE: Apache 2.0 https://github.com/googleapis/google-cloud-go/
blob/09ad026a62f0561b7f7e276569eda11a6afc9773/LICENSE



===
github.com/apparentlymart/go-dump 0.0.0-20190214190832-042adf3cf4a0
COPYRIGHT: Maintainer Martin Atkins
LICENSE: MPL v2.0 https://github.com/apparentlymart/go-dump/
blob/042adf3cf4a03793be12db534f39eb4707c3b5cd/LICENSE


===
github.com/dimchansky/utfbom 1.0.0
COPYRIGHT: Maintainer Dmitrij Koniajev
LICENSE: Apache 2.0 https://github.com/dimchansky/utfbom/blob/v1.0.0/LICENSE


===
github.com/fatih/color 1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT)


===
github.com/gogo/protobuf 1.2.0

COPYRIGHT:
Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets
Go support for Protocol Buffers - Google's data interchange format
Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

LICENSE: BSD 3-Clause


===
github.com/golang/mock 1.2.0
COPYRIGHT: Copyright 2010 - 2011 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/mock/blob/v1.2.0/LICENSE


===
github.com/golang/snappy 0.0.0-20180518054509-2e65f85255db
COPYRIGHT: Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-cmp 0.2.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/hashicorp/aws-sdk-go-base 0.2.0
COPYRIGHT: (C) Hashicorp
```

```
LICENSE: MPL v2.0 https://github.com/hashicorp/aws-sdk-go-base/blob/v0.2.0/
LICENSE


===
github.com/hashicorp/go-azure-helpers 0.0.0-20190129193224-166dfd221bb2
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/go-azure-helpers/
blob/166dfd221bb20c95f9db5be961c647a67646831e/LICENSE


===
github.com/hashicorp/terraform-config-inspect
 0.0.0-20190327195015-8022a2663a70
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/terraform-config-inspect/
blob/8022a2663a706bf2f36bfaf7968a9234f9e5a571/LICENSE


===
github.com/lib/pq 1.0.0
COPYRIGHT and LICENSE:

Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


===
github.com/marstr/guid 1.1.0
COPYRIGHT: Copyright (c) 2016 Martin Strobel
LICENSE: The MIT License (MIT)


==
github.com/vmihailenco/msgpack 4.0.1+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 3-Clause


===
https://github.com/census-instrumentation/opencensus-go commit 17d7955
COPYRIGHT: Copyright 2018, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-instrumentation/opencensus-go/
blob/17d7955af9d42886455ce010dd46878208041a58/LICENSE
```

```
===
google.golang.org/appengine/datastore commit 54a98f9
COPYRIGHT: Copyright 2013 - 2018 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE


===
google.golang.org/grpc/balancer commit 4b60e3b
google.golang.org/grpc/binarylog commit 4b60e3b
google.golang.org/grpc/encoding commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/
blob/4b60e3b6a1900853971945c616869c0fc211ac75/LICENSE
```

Provider: HashiCorp / Component(s): Terraform 0.12.0-beta2

```
Terraform 0.12.0-beta2

COPYRIGHT: (C) Hashicorp

LICENSE: MPL v2.0

Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.
```

```
1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.

1.8. “License”

     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.

1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
```

```
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
```

```
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
```

```
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
```

```
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party’s negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.
```

```
8. Litigation

   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
```

```
This Source Code Form is subject to the terms of the Mozilla Public License,
 v.
 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice

      This Source Code Form is “Incompatible
      With Secondary Licenses”, as defined by
      the Mozilla Public License, v. 2.0.




********************************
4P Dependencies:
********************************


google.golang.org/grpc/tap commit 028242f
google.golang.org/grpc/status commit 028242f
google.golang.org/grpc/stats commit 028242f
google.golang.org/grpc/peer commit 028242f
google.golang.org/grpc/naming commit 028242f
google.golang.org/grpc/metadata commit 028242f
google.golang.org/grpc/keepalive commit 028242f
google.golang.org/grpc/internal commit 028242f
google.golang.org/grpc/health commit 028242f
google.golang.org/grpc/grpclog commit 028242f
google.golang.org/grpc/credentials commit 028242f
google.golang.org/grpc/connectivity commit 028242f
google.golang.org/grpc/codes commit 028242f

COPYRIGHT and LICENSE:
 * Copyright 2015 gRPC authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
```

```
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
```

```
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



===
google.golang.org/genproto/googleapis commit 54afdca
COPYRIGHT: Copyright 2016 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/go-genproto/
blob/54afdca5d873f7b529e2ce3def1a99df16feda90/LICENSE



===
google.golang.org/appengine/urlfetch commit 54a98f9
google.golang.org/appengine/internal commit 54a98f9
COPYRIGHT: Copyright 2011 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE



===
google.golang.org/api/transport commit 680697c
google.golang.org/api/storage commit 680697c
google.golang.org/api/option commit 680697c
google.golang.org/api/iterator commit 680697c
google.golang.org/api/internal commit 680697c
google.golang.org/api/googleapi commit 680697c
google.golang.org/api/gensupport commit 680697c

COPYRIGHT:
Copyright (c) 2011 Google Inc. All rights reserved.

LICENSE: BSD 3-Clause
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
golang.org/x/time 0.0.0-20190308202827-9d24e82272b4
golang.org/x/text 0.3.1-0.20180807135948-17ff2d5776d2
golang.org/x/sys 0.0.0-20190222072716-a9d3bda3a223
golang.org/x/oauth2 0.0.0-20190220154721-9b3c75971fc9
golang.org/x/net 0.0.0-20190311183353-d8887717615a
golang.org/x/crypto 0.0.0-20190308221718-c2843e01d9a2

COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD-3 Clause



===
github.com/zclconf/go-cty 0.0.0-20190426224007-b18a157db9e2
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins

LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



===
github.com/xlab/treeprint 0.0.0-20161029104018-1d6e34225557
COPYRIGHT: Copyright © 2016 Maxim Kupriianov <max@kc.vc>
LICENSE: The MIT License (MIT)


===
github.com/xanzy/ssh-agent 0.2.1
COPYRIGHT:
Copyright (c) 2014 David Mzareulyan
Copyright 2015, Sander van Harmelen
LICENSE: Apache 2.0 https://github.com/xanzy/ssh-agent/blob/v0.2.1/LICENSE


===
github.com/Unknwon/com 0.0.0-20151008135407-28b053d5a292
COPYRIGHT:
Copyright 2013 - 2015 com authors
LICENSE: Apache 2.0 https://github.com/Unknwon/com/
blob/28b053d5a2923b87ce8c5a08f3af779894a72758/LICENSE


===
github.com/ulikunitz/xz 0.5.5
COPYRIGHT: Copyright (c) 2014-2016  Ulrich Kunitz. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/ugorji/go 0.0.0-20180813092308-00b869d2f4a5
COPYRIGHT: Copyright (c) 2012-2015 Ugorji Nwoke. All rights reserved.
LICENSE: The MIT License (MIT)


===
github.com/terraform-providers/terraform-provider-openstack 1.15.0
COPYRIGHT: (c) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
openstack/blob/v1.15.0/LICENSE



===
github.com/svanharmelen/jsonapi 0.0.0-20180618144545-0c0828c3f16d
COPYRIGHT: Copyright (c) 2015 Google Inc.
LICENSE: The MIT License (MIT)


===
github.com/spf13/afero 1.2.1

COPYRIGHT:
Copyright © 2014 Steve Francia <spf@spf13.com>.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 tsuru authors. All rights reserved.
```

```
LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/v1.2.1/LICENSE.txt



===
github.com/satori/go.uuid 1.2.0
COPYRIGHT: Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>
LICENSE: The MIT License (MIT)


===
github.com/posener/complete 1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)


===
github.com/pkg/errors 0.0.0-20170505043639-c605e284fe17
COPYRIGHT: Copyright (c) 2015, Dave Cheney <dave@cheney.net> All rights
 reserved.

LICENSE: BSD 2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


===
github.com/packer-community/winrmcp 0.0.0-20180102160824-81144009af58
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/oklog/run 1.0.0
No Copyright info
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/v1.0.0/LICENSE
```

```
===
github.com/nu7hatch/gouuid 0.0.0-20131221200532-179d4d0c4d8d
COPYRIGHT: Copyright (C) 2011 by Krzysztof Kowalik <chris@nu7hat.ch>
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/reflectwalk 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/prefixedio 0.0.0-20190213213902-5733675afd51
COPYRIGHT: Copyright (c) 2015 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/panicwrap 0.0.0-20190213213626-17011010aaa4
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/mapstructure 1.1.2
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/hashstructure 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)



===
github.com/mitchellh/go-wordwrap 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-testing-interface 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-linereader 0.0.0-20190213213312-1b945b3263eb
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-homedir 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/copystructure 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
```

```
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/colorstring 0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/cli 1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/v1.0.0/LICENSE



===
github.com/mattn/go-shellwords 1.0.4
COPYRIGHT: Copyright (c) 2017 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-isatty 0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-colorable 0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/masterzen/winrm 0.0.0-20190223112901-5e5c9a7fe54b
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/winrm/
blob/5e5c9a7fe54b25590c464f78841431cb803dcb66/LICENSE


===
github.com/masterzen/simplexml 0.0.0-20160608183007-4572e39b1ab9
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/simplexml/
blob/4572e39b1ab9fe03ee513ce6fc7e289e98482190/LICENSE



===
github.com/lusis/go-artifactory 0.0.0-20160115162124-7e4ce345df82
COPYRIGHT and LICENSE:
Apache License, Version 2.0

Copyright (c) 2016 John E. Vincent

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
```

```
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


===
github.com/keybase/go-crypto 0.0.0-20161004153544-93f5b35093ba
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/kardianos/osext 0.0.0-20190222173326-2bc1f35cddc0
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/joyent/triton-go 0.0.0-20180313100802-d8f9c0314926
COPYRIGHT: Copyright (c) 2018, Joyent, Inc. All rights reserved.
LICENSE: MPL v2.0 https://github.com/joyent/triton-go/blob/
d8f9c031492688b4b62b7fd29b1edd9897400c4e/LICENSE


===
github.com/jmespath/go-jmespath 0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



===
github.com/hashicorp/yamux 0.0.0-20180604194846-3520598351bb
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/yamux/
blob/3520598351bb3500a49ae9563f5539666ae0a27c/LICENSE


===
github.com/hashicorp/vault 0.10.4
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/vault/blob/v0.10.4/LICENSE


===
github.com/hashicorp/serf 0.0.0-20160124182025-e4ec8cc423bb
COPYRIGHT: Copyright (C) Hashicorp 2013
LICENSE: MPL v2.0 https://github.com/hashicorp/serf/blob/
e4ec8cc423bbe20d26584b96efbeb9102e16d05f/LICENSE


===
```

```
github.com/hashicorp/logutils 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/logutils/blob/v1.0.0/LICENSE


===
github.com/hashicorp/hil 0.0.0-20190212112733-ab17b08d6590
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hil/blob/
ab17b08d659065faac4f4fbe15edaae0bc7b17df/LICENSE


===
github.com/hashicorp/hcl2 0.0.0-20190416162332-2c5a4b7d729a
COPYRIGHT: 2018, HashiCorp
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl2/
blob/2c5a4b7d729a77cfb28562d43e248d9080f4cada/LICENSE


===
github.com/hashicorp/hcl 0.0.0-20170504190234-a4b07c25de5f
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl/blob/
a4b07c25de5ff55ad3b8936cea69a79a3d95a855/LICENSE


===
github.com/hashicorp/go-version 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-version/blob/v1.1.0/
LICENSE


===
github.com/hashicorp/go-uuid 1.0.1
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-uuid/blob/v1.0.1/LICENSE


===
github.com/hashicorp/go-tfe 0.3.16
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-tfe/blob/v0.3.16/LICENSE


===
github.com/hashicorp/go-slug 0.3.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-slug/blob/v0.3.0/LICENSE


===
github.com/hashicorp/go-safetemp 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-safetemp/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-rootcerts 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-rootcerts/blob/v1.0.0/
LICENSE
```

```
===
github.com/hashicorp/go-retryablehttp 0.5.2
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-retryablehttp/blob/v0.5.2/
LICENSE


===
github.com/hashicorp/go-plugin 0.0.0-20190322172744-52e1c4730856
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-plugin/
blob/52e1c4730856c1438ced7597c9b5c585a7bd06a2/LICENSE


===
github.com/hashicorp/go-multierror 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-multierror/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-hclog 0.0.0-20181001195459-61d530d6c27f
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT)


===
github.com/hashicorp/go-getter 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-getter/blob/v1.1.0/LICENSE


===
github.com/hashicorp/go-cleanhttp 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-cleanhttp/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/go-checkpoint 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-checkpoint/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/errwrap 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/errwrap/blob/v1.0.0/LICENSE


===
github.com/hashicorp/consul 0.0.0-20171026175957-610f3c86a089
COPYRIGHT: Copyright © 2014-2018 HashiCorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/consul/
blob/610f3c86a089817b5bd5729a3b8c2db33a9ae2b0/LICENSE


===
github.com/go-test/deep 1.0.1
COPYRIGHT: Copyright 2015-2017 Daniel Nichter
```

```
LICENSE: The MIT License (MIT)


===
github.com/gophercloud/utils 0.0.0-20190128072930-fbb6ab446f01
No Copyright Info
LICENSE: Apache 2.0 https://github.com/gophercloud/utils/blob/
fbb6ab446f0167dfa4d25b8eb0c0d2f873924516/LICENSE


===
github.com/gophercloud/gophercloud 0.0.0-20190208042652-bc37892e1968
COPYRIGHT: Copyright 2012-2013 Rackspace, Inc.
LICENSE: Apache 2.0 https://github.com/gophercloud/gophercloud/blob/
bc37892e196848d7d56ba0db974ba1d7d5c43b2a/LICENSE


===
github.com/googleapis/gax-go commit 9e33419
COPYRIGHT: Copyright 2016, Google Inc. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-querystring 1.0.0
COPYRIGHT: Copyright (c) 2013 Google. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/golang/protobuf 1.3.0
COPYRIGHT: Copyright 2010 The Go Authors.  All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/dylanmei/winrmtest 0.0.0-20190225150635-99b7fe2fddf1
COPYRIGHT: Copyright (c) 2014-2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/dylanmei/iso8601 0.1.0
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)


===
github.com/dgrijalva/jwt-go 3.2.0+incompatible
COPYRIGHT: Copyright (c) 2012 Dave Grijalva
LICENSE: The MIT License (MIT)



===
github.com/davecgh/go-spew 1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>
```

```
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



===
github.com/coreos/go-semver 0.2.0
COPYRIGHT: Copyright 2018 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/coreos/go-semver/blob/v0.2.0/LICENSE


===
github.com/coreos/etcd 3.3.10+incompatible
COPYRIGHT: Copyright 2014 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/etcd-io/etcd/blob/v3.3.10/LICENSE


===
github.com/chzyer/readline 0.0.0-20161106042343-c914be64f07d
COPYRIGHT: Copyright (c) 2015 Chzyer
LICENSE: The MIT License (MIT)


===
github.com/ChrisTrenkamp/goxpath 0.0.0-20170922090931-c385f95c6022
COPYRIGHT: Copyright (c) 2015 ChrisTrenkamp
LICENSE: The MIT License (MIT)



===
github.com/blang/semver 3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)


===
github.com/bgentry/speakeasy 0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)


===
github.com/bgentry/go-netrc 0.0.0-20140422174119-9fd32a8b3d3d

COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)



===
```

```
github.com/Azure/go-ntlmssp 0.0.0-20180810175552-4a21cbd618b4
COPYRIGHT: Copyright (c) 2016 Microsoft
LICENSE: The MIT License (MIT)


===
github.com/Azure/go-autorest 10.15.4+incompatible
COPYRIGHT: Copyright 2017 Microsoft Corporation
LICENSE: Apache 2.0 https://github.com/Azure/go-autorest/blob/v10.15.4/
LICENSE


===
github.com/Azure/azure-sdk-for-go 21.3.0+incompatible
COPYRIGHT: Copyright 2014-2017 Microsoft
LICENSE: Apache 2.0 https://github.com/Azure/azure-sdk-for-go/blob/v21.3.0/
LICENSE


===
github.com/aws/aws-sdk-go 1.19.18
COPYRIGHT:
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/v1.19.18/
LICENSE.txt


===
github.com/armon/go-radix 1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)


===
github.com/armon/circbuf 0.0.0-20190214190532-5111143e8da2
COPYRIGHT: Copyright (c) 2013 Armon Dadgar
LICENSE: The MIT License (MIT)



===
github.com/apparentlymart/go-textseg 1.0.0

COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)


---------

Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
```

```
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.

---------

Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.
```

```
Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



===
github.com/apparentlymart/go-cidr 1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)


===
github.com/antchfx/xquery 0.0.0-20180515051857-ad5b8c7a47b0
COPYRIGHT: Copyright W3Schools.com
LICENSE: The MIT License (MIT)


====
github.com/antchfx/xpath 0.0.0-20190129040759-c8489ed3251e
COPYRIGHT: No Copyright
LICENSE: The MIT License (MIT)


===
github.com/agl/ed25519 0.0.0-20150830182803-278e1ec8e8a6
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause




github.com/agext/levenshtein 1.2.2
COPYRIGHT: Copyright 2016 ALRUX Inc.
LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/v1.2.2/LICENSE


===
cloud.google.com/go/storage commit 09ad026
cloud.google.com/go/internal commit 09ad026
cloud.google.com/go/iam commit 09ad026
cloud.google.com/go/compute commit 09ad026

COPYRIGHT: Copyright 2016 - 2018 Google LLC
LICENSE: Apache 2.0 https://github.com/googleapis/google-cloud-go/
blob/09ad026a62f0561b7f7e276569eda11a6afc9773/LICENSE



===
github.com/apparentlymart/go-dump 0.0.0-20190214190832-042adf3cf4a0
COPYRIGHT: Maintainer Martin Atkins
LICENSE: MPL v2.0 https://github.com/apparentlymart/go-dump/
blob/042adf3cf4a03793be12db534f39eb4707c3b5cd/LICENSE


===
github.com/dimchansky/utfbom 1.0.0
COPYRIGHT: Maintainer Dmitrij Koniajev
LICENSE: Apache 2.0 https://github.com/dimchansky/utfbom/blob/v1.0.0/LICENSE


===
```

```
github.com/fatih/color 1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT)


===
github.com/gogo/protobuf 1.2.0

COPYRIGHT:
Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets
Go support for Protocol Buffers - Google's data interchange format
Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

LICENSE: BSD 3-Clause


===
github.com/golang/mock 1.2.0
COPYRIGHT: Copyright 2010 - 2011 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/mock/blob/v1.2.0/LICENSE


===
github.com/golang/snappy 0.0.0-20180518054509-2e65f85255db
COPYRIGHT: Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-cmp 0.2.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/hashicorp/aws-sdk-go-base 0.2.0
COPYRIGHT: (C) Hashicorp
LICENSE: MPL v2.0 https://github.com/hashicorp/aws-sdk-go-base/blob/v0.2.0/
LICENSE


===
github.com/hashicorp/go-azure-helpers 0.0.0-20190129193224-166dfd221bb2
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/go-azure-helpers/
blob/166dfd221bb20c95f9db5be961c647a67646831e/LICENSE


===
github.com/hashicorp/terraform-config-inspect
 0.0.0-20190327195015-8022a2663a70
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/terraform-config-inspect/
blob/8022a2663a706bf2f36bfaf7968a9234f9e5a571/LICENSE


===
github.com/lib/pq 1.0.0
COPYRIGHT and LICENSE:
```

```
Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


===
github.com/marstr/guid 1.1.0
COPYRIGHT: Copyright (c) 2016 Martin Strobel
LICENSE: The MIT License (MIT)


==
github.com/vmihailenco/msgpack 4.0.1+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 3-Clause


===
https://github.com/census-instrumentation/opencensus-go commit 17d7955
COPYRIGHT: Copyright 2018, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-instrumentation/opencensus-go/
blob/17d7955af9d42886455ce010dd46878208041a58/LICENSE


===
google.golang.org/appengine/datastore commit 54a98f9
COPYRIGHT: Copyright 2013 - 2018 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE


===
google.golang.org/grpc/balancer commit 4b60e3b
google.golang.org/grpc/binarylog commit 4b60e3b
google.golang.org/grpc/encoding commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/
blob/4b60e3b6a1900853971945c616869c0fc211ac75/LICENSE
```

Provider: HashiCorp / Component(s): Terraform 0.12.0-rc1

```
Terraform 0.12.0-beta2
```

```
COPYRIGHT: (C) Hashicorp

LICENSE: MPL v2.0

Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.

1.8. “License”

     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.
```

```
1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.
```

```
2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.
```

```
3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
```

```
     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
```

```
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party’s negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
```

```
   this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
 v.
 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

      This Source Code Form is "Incompatible
      With Secondary Licenses", as defined by
      the Mozilla Public License, v. 2.0.




********************************
4P Dependencies:
```

```
**********************************


google.golang.org/grpc/tap commit 028242f
google.golang.org/grpc/status commit 028242f
google.golang.org/grpc/stats commit 028242f
google.golang.org/grpc/peer commit 028242f
google.golang.org/grpc/naming commit 028242f
google.golang.org/grpc/metadata commit 028242f
google.golang.org/grpc/keepalive commit 028242f
google.golang.org/grpc/internal commit 028242f
google.golang.org/grpc/health commit 028242f
google.golang.org/grpc/grpclog commit 028242f
google.golang.org/grpc/credentials commit 028242f
google.golang.org/grpc/connectivity commit 028242f
google.golang.org/grpc/codes commit 028242f

COPYRIGHT and LICENSE:
 * Copyright 2015 gRPC authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
```

```
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
```

```
   You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
   If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

   You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
```

```
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



===
google.golang.org/genproto/googleapis commit 54afdca
COPYRIGHT: Copyright 2016 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/go-genproto/
blob/54afdca5d873f7b529e2ce3def1a99df16feda90/LICENSE



===
google.golang.org/appengine/urlfetch commit 54a98f9
google.golang.org/appengine/internal commit 54a98f9
COPYRIGHT: Copyright 2011 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE



===
google.golang.org/api/transport commit 680697c
google.golang.org/api/storage commit 680697c
google.golang.org/api/option commit 680697c
google.golang.org/api/iterator commit 680697c
google.golang.org/api/internal commit 680697c
google.golang.org/api/googleapi commit 680697c
google.golang.org/api/gensupport commit 680697c

COPYRIGHT:
Copyright (c) 2011 Google Inc. All rights reserved.

LICENSE: BSD 3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
===
golang.org/x/time 0.0.0-20190308202827-9d24e82272b4
golang.org/x/text 0.3.1-0.20180807135948-17ff2d5776d2
golang.org/x/sys 0.0.0-20190222072716-a9d3bda3a223
golang.org/x/oauth2 0.0.0-20190220154721-9b3c75971fc9
golang.org/x/net 0.0.0-20190311183353-d8887717615a
golang.org/x/crypto 0.0.0-20190308221718-c2843e01d9a2

COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD-3 Clause



===
github.com/zclconf/go-cty 0.0.0-20190426224007-b18a157db9e2
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins

LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



===
github.com/xlab/treeprint 0.0.0-20161029104018-1d6e34225557
COPYRIGHT: Copyright © 2016 Maxim Kupriianov <max@kc.vc>
LICENSE: The MIT License (MIT)


===
github.com/xanzy/ssh-agent 0.2.1
COPYRIGHT:
Copyright (c) 2014 David Mzareulyan
Copyright 2015, Sander van Harmelen
LICENSE: Apache 2.0 https://github.com/xanzy/ssh-agent/blob/v0.2.1/LICENSE


===
github.com/Unknwon/com 0.0.0-20151008135407-28b053d5a292
COPYRIGHT:
Copyright 2013 - 2015 com authors
```

```
LICENSE: Apache 2.0 https://github.com/Unknwon/com/
blob/28b053d5a2923b87ce8c5a08f3af779894a72758/LICENSE


===
github.com/ulikunitz/xz 0.5.5
COPYRIGHT: Copyright (c) 2014-2016  Ulrich Kunitz. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/ugorji/go 0.0.0-20180813092308-00b869d2f4a5
COPYRIGHT: Copyright (c) 2012-2015 Ugorji Nwoke. All rights reserved.
LICENSE: The MIT License (MIT)


===
github.com/terraform-providers/terraform-provider-openstack 1.15.0
COPYRIGHT: (c) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
openstack/blob/v1.15.0/LICENSE



===
github.com/svanharmelen/jsonapi 0.0.0-20180618144545-0c0828c3f16d
COPYRIGHT: Copyright (c) 2015 Google Inc.
LICENSE: The MIT License (MIT)


===
github.com/spf13/afero 1.2.1

COPYRIGHT:
Copyright © 2014 Steve Francia <spf@spf13.com>.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 tsuru authors. All rights reserved.

LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/v1.2.1/LICENSE.txt



===
github.com/satori/go.uuid 1.2.0
COPYRIGHT: Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>
LICENSE: The MIT License (MIT)


===
github.com/posener/complete 1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)


===
github.com/pkg/errors 0.0.0-20170505043639-c605e284fe17
COPYRIGHT: Copyright (c) 2015, Dave Cheney <dave@cheney.net> All rights
 reserved.

LICENSE: BSD 2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


===
github.com/packer-community/winrmcp 0.0.0-20180102160824-81144009af58
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/oklog/run 1.0.0
No Copyright info
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/v1.0.0/LICENSE



===
github.com/nu7hatch/gouuid 0.0.0-20131221200532-179d4d0c4d8d
COPYRIGHT: Copyright (C) 2011 by Krzysztof Kowalik <chris@nu7hat.ch>
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/reflectwalk 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/prefixedio 0.0.0-20190213213902-5733675afd51
COPYRIGHT: Copyright (c) 2015 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/panicwrap 0.0.0-20190213213626-17011010aaa4
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/mapstructure 1.1.2
```

```
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/hashstructure 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)



===
github.com/mitchellh/go-wordwrap 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-testing-interface 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-linereader 0.0.0-20190213213312-1b945b3263eb
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-homedir 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/copystructure 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/colorstring 0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/cli 1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/v1.0.0/LICENSE



===
github.com/mattn/go-shellwords 1.0.4
COPYRIGHT: Copyright (c) 2017 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-isatty 0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT)
```

```
===
github.com/mattn/go-colorable 0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/masterzen/winrm 0.0.0-20190223112901-5e5c9a7fe54b
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/winrm/
blob/5e5c9a7fe54b25590c464f78841431cb803dcb66/LICENSE


===
github.com/masterzen/simplexml 0.0.0-20160608183007-4572e39b1ab9
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/simplexml/
blob/4572e39b1ab9fe03ee513ce6fc7e289e98482190/LICENSE



===
github.com/lusis/go-artifactory 0.0.0-20160115162124-7e4ce345df82
COPYRIGHT and LICENSE:
Apache License, Version 2.0

Copyright (c) 2016 John E. Vincent

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


===
github.com/keybase/go-crypto 0.0.0-20161004153544-93f5b35093ba
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/kardianos/osext 0.0.0-20190222173326-2bc1f35cddc0
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/joyent/triton-go 0.0.0-20180313100802-d8f9c0314926
COPYRIGHT: Copyright (c) 2018, Joyent, Inc. All rights reserved.
LICENSE: MPL v2.0 https://github.com/joyent/triton-go/blob/
d8f9c031492688b4b62b7fd29b1edd9897400c4e/LICENSE


===
github.com/jmespath/go-jmespath 0.0.0-20180206201540-c2b33e8439af
```

```
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



===
github.com/hashicorp/yamux 0.0.0-20180604194846-3520598351bb
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/yamux/
blob/3520598351bb3500a49ae9563f5539666ae0a27c/LICENSE


===
github.com/hashicorp/vault 0.10.4
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/vault/blob/v0.10.4/LICENSE


===
github.com/hashicorp/serf 0.0.0-20160124182025-e4ec8cc423bb
COPYRIGHT: Copyright (C) Hashicorp 2013
LICENSE: MPL v2.0 https://github.com/hashicorp/serf/blob/
e4ec8cc423bbe20d26584b96efbeb9102e16d05f/LICENSE


===
github.com/hashicorp/logutils 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/logutils/blob/v1.0.0/LICENSE


===
github.com/hashicorp/hil 0.0.0-20190212112733-ab17b08d6590
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hil/blob/
ab17b08d659065faac4f4fbe15edaae0bc7b17df/LICENSE


===
github.com/hashicorp/hcl2 0.0.0-20190416162332-2c5a4b7d729a
COPYRIGHT: 2018, HashiCorp
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl2/
blob/2c5a4b7d729a77cfb28562d43e248d9080f4cada/LICENSE


===
github.com/hashicorp/hcl 0.0.0-20170504190234-a4b07c25de5f
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl/blob/
a4b07c25de5ff55ad3b8936cea69a79a3d95a855/LICENSE
```

```
===
github.com/hashicorp/go-version 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-version/blob/v1.1.0/
LICENSE


===
github.com/hashicorp/go-uuid 1.0.1
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-uuid/blob/v1.0.1/LICENSE


===
github.com/hashicorp/go-tfe 0.3.16
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-tfe/blob/v0.3.16/LICENSE


===
github.com/hashicorp/go-slug 0.3.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-slug/blob/v0.3.0/LICENSE


===
github.com/hashicorp/go-safetemp 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-safetemp/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-rootcerts 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-rootcerts/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-retryablehttp 0.5.2
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-retryablehttp/blob/v0.5.2/
LICENSE


===
github.com/hashicorp/go-plugin 0.0.0-20190322172744-52e1c4730856
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-plugin/
blob/52e1c4730856c1438ced7597c9b5c585a7bd06a2/LICENSE


===
github.com/hashicorp/go-multierror 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-multierror/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-hclog 0.0.0-20181001195459-61d530d6c27f
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT)
```

```
===
github.com/hashicorp/go-getter 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-getter/blob/v1.1.0/LICENSE


===
github.com/hashicorp/go-cleanhttp 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-cleanhttp/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/go-checkpoint 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-checkpoint/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/errwrap 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/errwrap/blob/v1.0.0/LICENSE


===
github.com/hashicorp/consul 0.0.0-20171026175957-610f3c86a089
COPYRIGHT: Copyright © 2014-2018 HashiCorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/consul/
blob/610f3c86a089817b5bd5729a3b8c2db33a9ae2b0/LICENSE


===
github.com/go-test/deep 1.0.1
COPYRIGHT: Copyright 2015-2017 Daniel Nichter
LICENSE: The MIT License (MIT)


===
github.com/gophercloud/utils 0.0.0-20190128072930-fbb6ab446f01
No Copyright Info
LICENSE: Apache 2.0 https://github.com/gophercloud/utils/blob/
fbb6ab446f0167dfa4d25b8eb0c0d2f873924516/LICENSE


===
github.com/gophercloud/gophercloud 0.0.0-20190208042652-bc37892e1968
COPYRIGHT: Copyright 2012-2013 Rackspace, Inc.
LICENSE: Apache 2.0 https://github.com/gophercloud/gophercloud/blob/
bc37892e196848d7d56ba0db974ba1d7d5c43b2a/LICENSE


===
github.com/googleapis/gax-go commit 9e33419
COPYRIGHT: Copyright 2016, Google Inc. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-querystring 1.0.0
COPYRIGHT: Copyright (c) 2013 Google. All rights reserved.
```

```
LICENSE: BSD 3-Clause



===
github.com/golang/protobuf 1.3.0
COPYRIGHT: Copyright 2010 The Go Authors.  All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/dylanmei/winrmtest 0.0.0-20190225150635-99b7fe2fddf1
COPYRIGHT: Copyright (c) 2014-2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/dylanmei/iso8601 0.1.0
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)


===
github.com/dgrijalva/jwt-go 3.2.0+incompatible
COPYRIGHT: Copyright (c) 2012 Dave Grijalva
LICENSE: The MIT License (MIT)



===
github.com/davecgh/go-spew 1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



===
github.com/coreos/go-semver 0.2.0
COPYRIGHT: Copyright 2018 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/coreos/go-semver/blob/v0.2.0/LICENSE


===
github.com/coreos/etcd 3.3.10+incompatible
COPYRIGHT: Copyright 2014 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/etcd-io/etcd/blob/v3.3.10/LICENSE
```

```
===
github.com/chzyer/readline 0.0.0-20161106042343-c914be64f07d
COPYRIGHT: Copyright (c) 2015 Chzyer
LICENSE: The MIT License (MIT)


===
github.com/ChrisTrenkamp/goxpath 0.0.0-20170922090931-c385f95c6022
COPYRIGHT: Copyright (c) 2015 ChrisTrenkamp
LICENSE: The MIT License (MIT)



===
github.com/blang/semver 3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)


===
github.com/bgentry/speakeasy 0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)


===
github.com/bgentry/go-netrc 0.0.0-20140422174119-9fd32a8b3d3d

COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)



===
github.com/Azure/go-ntlmssp 0.0.0-20180810175552-4a21cbd618b4
COPYRIGHT: Copyright (c) 2016 Microsoft
LICENSE: The MIT License (MIT)


===
github.com/Azure/go-autorest 10.15.4+incompatible
COPYRIGHT: Copyright 2017 Microsoft Corporation
LICENSE: Apache 2.0 https://github.com/Azure/go-autorest/blob/v10.15.4/
LICENSE


===
github.com/Azure/azure-sdk-for-go 21.3.0+incompatible
COPYRIGHT: Copyright 2014-2017 Microsoft
LICENSE: Apache 2.0 https://github.com/Azure/azure-sdk-for-go/blob/v21.3.0/
LICENSE


===
github.com/aws/aws-sdk-go 1.19.18
COPYRIGHT:
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
```

```
LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/v1.19.18/
LICENSE.txt


===
github.com/armon/go-radix 1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)


===
github.com/armon/circbuf 0.0.0-20190214190532-5111143e8da2
COPYRIGHT: Copyright (c) 2013 Armon Dadgar
LICENSE: The MIT License (MIT)



===
github.com/apparentlymart/go-textseg 1.0.0

COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)


---------

Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.

---------

Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
```

```
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



===
github.com/apparentlymart/go-cidr 1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)


===
github.com/antchfx/xquery 0.0.0-20180515051857-ad5b8c7a47b0
COPYRIGHT: Copyright W3Schools.com
LICENSE: The MIT License (MIT)


====
github.com/antchfx/xpath 0.0.0-20190129040759-c8489ed3251e
COPYRIGHT: No Copyright
LICENSE: The MIT License (MIT)
```

```
===
github.com/agl/ed25519 0.0.0-20150830182803-278e1ec8e8a6
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause




github.com/agext/levenshtein 1.2.2
COPYRIGHT: Copyright 2016 ALRUX Inc.
LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/v1.2.2/LICENSE


===
cloud.google.com/go/storage commit 09ad026
cloud.google.com/go/internal commit 09ad026
cloud.google.com/go/iam commit 09ad026
cloud.google.com/go/compute commit 09ad026

COPYRIGHT: Copyright 2016 - 2018 Google LLC
LICENSE: Apache 2.0 https://github.com/googleapis/google-cloud-go/
blob/09ad026a62f0561b7f7e276569eda11a6afc9773/LICENSE



===
github.com/apparentlymart/go-dump 0.0.0-20190214190832-042adf3cf4a0
COPYRIGHT: Maintainer Martin Atkins
LICENSE: MPL v2.0 https://github.com/apparentlymart/go-dump/
blob/042adf3cf4a03793be12db534f39eb4707c3b5cd/LICENSE


===
github.com/dimchansky/utfbom 1.0.0
COPYRIGHT: Maintainer Dmitrij Koniajev
LICENSE: Apache 2.0 https://github.com/dimchansky/utfbom/blob/v1.0.0/LICENSE


===
github.com/fatih/color 1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT)


===
github.com/gogo/protobuf 1.2.0

COPYRIGHT:
Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets
Go support for Protocol Buffers - Google's data interchange format
Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

LICENSE: BSD 3-Clause


===
github.com/golang/mock 1.2.0
COPYRIGHT: Copyright 2010 - 2011 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/mock/blob/v1.2.0/LICENSE
```

```
===
github.com/golang/snappy 0.0.0-20180518054509-2e65f85255db
COPYRIGHT: Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-cmp 0.2.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/hashicorp/aws-sdk-go-base 0.2.0
COPYRIGHT: (C) Hashicorp
LICENSE: MPL v2.0 https://github.com/hashicorp/aws-sdk-go-base/blob/v0.2.0/
LICENSE


===
github.com/hashicorp/go-azure-helpers 0.0.0-20190129193224-166dfd221bb2
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/go-azure-helpers/
blob/166dfd221bb20c95f9db5be961c647a67646831e/LICENSE


===
github.com/hashicorp/terraform-config-inspect
 0.0.0-20190327195015-8022a2663a70
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/terraform-config-inspect/
blob/8022a2663a706bf2f36bfaf7968a9234f9e5a571/LICENSE


===
github.com/lib/pq 1.0.0
COPYRIGHT and LICENSE:

Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


===
github.com/marstr/guid 1.1.0
COPYRIGHT: Copyright (c) 2016 Martin Strobel
LICENSE: The MIT License (MIT)
```

```
==
github.com/vmihailenco/msgpack 4.0.1+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 3-Clause


===
https://github.com/census-instrumentation/opencensus-go commit 17d7955
COPYRIGHT: Copyright 2018, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-instrumentation/opencensus-go/
blob/17d7955af9d42886455ce010dd46878208041a58/LICENSE


===
google.golang.org/appengine/datastore commit 54a98f9
COPYRIGHT: Copyright 2013 - 2018 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE


===
google.golang.org/grpc/balancer commit 4b60e3b
google.golang.org/grpc/binarylog commit 4b60e3b
google.golang.org/grpc/encoding commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/
blob/4b60e3b6a1900853971945c616869c0fc211ac75/LICENSE
```

Provider: HashiCorp / Component(s): Terraform 0.12.2

```
Terraform 0.12.0-beta2

COPYRIGHT: (C) Hashicorp

LICENSE: MPL v2.0

Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”
```

```
     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.

1.8. “License”

     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.

1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
```

```
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party’s
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
```

```
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
```

```
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
```

```
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability
```

```
   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party's negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions
```

```
      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
 v.
 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

      This Source Code Form is "Incompatible
      With Secondary Licenses", as defined by
      the Mozilla Public License, v. 2.0.




**********************************
4P Dependencies:
**********************************


google.golang.org/grpc/tap commit 028242f
google.golang.org/grpc/status commit 028242f
google.golang.org/grpc/stats commit 028242f
google.golang.org/grpc/peer commit 028242f
google.golang.org/grpc/naming commit 028242f
google.golang.org/grpc/metadata commit 028242f
google.golang.org/grpc/keepalive commit 028242f
google.golang.org/grpc/internal commit 028242f
google.golang.org/grpc/health commit 028242f
google.golang.org/grpc/grpclog commit 028242f
google.golang.org/grpc/credentials commit 028242f
google.golang.org/grpc/connectivity commit 028242f
google.golang.org/grpc/codes commit 028242f

COPYRIGHT and LICENSE:
 * Copyright 2015 gRPC authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
```

```
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
```

```
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
```

```
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



===
google.golang.org/genproto/googleapis commit 54afdca
COPYRIGHT: Copyright 2016 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/go-genproto/
blob/54afdca5d873f7b529e2ce3def1a99df16feda90/LICENSE



===
google.golang.org/appengine/urlfetch commit 54a98f9
google.golang.org/appengine/internal commit 54a98f9
COPYRIGHT: Copyright 2011 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE
```

```
===
google.golang.org/api/transport commit 680697c
google.golang.org/api/storage commit 680697c
google.golang.org/api/option commit 680697c
google.golang.org/api/iterator commit 680697c
google.golang.org/api/internal commit 680697c
google.golang.org/api/googleapi commit 680697c
google.golang.org/api/gensupport commit 680697c

COPYRIGHT:
Copyright (c) 2011 Google Inc. All rights reserved.

LICENSE: BSD 3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
golang.org/x/time 0.0.0-20190308202827-9d24e82272b4
golang.org/x/text 0.3.1-0.20180807135948-17ff2d5776d2
golang.org/x/sys 0.0.0-20190222072716-a9d3bda3a223
golang.org/x/oauth2 0.0.0-20190220154721-9b3c75971fc9
golang.org/x/net 0.0.0-20190311183353-d8887717615a
golang.org/x/crypto 0.0.0-20190308221718-c2843e01d9a2

COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD-3 Clause



===
github.com/zclconf/go-cty 0.0.0-20190426224007-b18a157db9e2
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins

LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



===
github.com/xlab/treeprint 0.0.0-20161029104018-1d6e34225557
COPYRIGHT: Copyright © 2016 Maxim Kupriianov <max@kc.vc>
LICENSE: The MIT License (MIT)


===
github.com/xanzy/ssh-agent 0.2.1
COPYRIGHT:
Copyright (c) 2014 David Mzareulyan
Copyright 2015, Sander van Harmelen
LICENSE: Apache 2.0 https://github.com/xanzy/ssh-agent/blob/v0.2.1/LICENSE


===
github.com/Unknwon/com 0.0.0-20151008135407-28b053d5a292
COPYRIGHT:
Copyright 2013 - 2015 com authors
LICENSE: Apache 2.0 https://github.com/Unknwon/com/
blob/28b053d5a2923b87ce8c5a08f3af779894a72758/LICENSE


===
github.com/ulikunitz/xz 0.5.5
COPYRIGHT: Copyright (c) 2014-2016  Ulrich Kunitz. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/ugorji/go 0.0.0-20180813092308-00b869d2f4a5
COPYRIGHT: Copyright (c) 2012-2015 Ugorji Nwoke. All rights reserved.
LICENSE: The MIT License (MIT)


===
github.com/terraform-providers/terraform-provider-openstack 1.15.0
COPYRIGHT: (c) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
openstack/blob/v1.15.0/LICENSE
```

```
===
github.com/svanharmelen/jsonapi 0.0.0-20180618144545-0c0828c3f16d
COPYRIGHT: Copyright (c) 2015 Google Inc.
LICENSE: The MIT License (MIT)


===
github.com/spf13/afero 1.2.1

COPYRIGHT:
Copyright © 2014 Steve Francia <spf@spf13.com>.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 tsuru authors. All rights reserved.

LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/v1.2.1/LICENSE.txt



===
github.com/satori/go.uuid 1.2.0
COPYRIGHT: Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>
LICENSE: The MIT License (MIT)


===
github.com/posener/complete 1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)


===
github.com/pkg/errors 0.0.0-20170505043639-c605e284fe17
COPYRIGHT: Copyright (c) 2015, Dave Cheney <dave@cheney.net> All rights
 reserved.

LICENSE: BSD 2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
===
github.com/packer-community/winrmcp 0.0.0-20180102160824-81144009af58
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/oklog/run 1.0.0
No Copyright info
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/v1.0.0/LICENSE



===
github.com/nu7hatch/gouuid 0.0.0-20131221200532-179d4d0c4d8d
COPYRIGHT: Copyright (C) 2011 by Krzysztof Kowalik <chris@nu7hat.ch>
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/reflectwalk 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/prefixedio 0.0.0-20190213213902-5733675afd51
COPYRIGHT: Copyright (c) 2015 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/panicwrap 0.0.0-20190213213626-17011010aaa4
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/mapstructure 1.1.2
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/hashstructure 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)



===
github.com/mitchellh/go-wordwrap 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-testing-interface 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)
```

```
===
github.com/mitchellh/go-linereader 0.0.0-20190213213312-1b945b3263eb
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-homedir 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/copystructure 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/colorstring 0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/cli 1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/v1.0.0/LICENSE



===
github.com/mattn/go-shellwords 1.0.4
COPYRIGHT: Copyright (c) 2017 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-isatty 0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-colorable 0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/masterzen/winrm 0.0.0-20190223112901-5e5c9a7fe54b
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/winrm/
blob/5e5c9a7fe54b25590c464f78841431cb803dcb66/LICENSE


===
github.com/masterzen/simplexml 0.0.0-20160608183007-4572e39b1ab9
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/simplexml/
blob/4572e39b1ab9fe03ee513ce6fc7e289e98482190/LICENSE
```

```
===
github.com/lusis/go-artifactory 0.0.0-20160115162124-7e4ce345df82
COPYRIGHT and LICENSE:
Apache License, Version 2.0

Copyright (c) 2016 John E. Vincent

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


===
github.com/keybase/go-crypto 0.0.0-20161004153544-93f5b35093ba
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/kardianos/osext 0.0.0-20190222173326-2bc1f35cddc0
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/joyent/triton-go 0.0.0-20180313100802-d8f9c0314926
COPYRIGHT: Copyright (c) 2018, Joyent, Inc. All rights reserved.
LICENSE: MPL v2.0 https://github.com/joyent/triton-go/blob/
d8f9c031492688b4b62b7fd29b1edd9897400c4e/LICENSE


===
github.com/jmespath/go-jmespath 0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



===
github.com/hashicorp/yamux 0.0.0-20180604194846-3520598351bb
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/yamux/
blob/3520598351bb3500a49ae9563f5539666ae0a27c/LICENSE
```

```
===
github.com/hashicorp/vault 0.10.4
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/vault/blob/v0.10.4/LICENSE


===
github.com/hashicorp/serf 0.0.0-20160124182025-e4ec8cc423bb
COPYRIGHT: Copyright (C) Hashicorp 2013
LICENSE: MPL v2.0 https://github.com/hashicorp/serf/blob/
e4ec8cc423bbe20d26584b96efbeb9102e16d05f/LICENSE


===
github.com/hashicorp/logutils 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/logutils/blob/v1.0.0/LICENSE


===
github.com/hashicorp/hil 0.0.0-20190212112733-ab17b08d6590
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hil/blob/
ab17b08d659065faac4f4fbe15edaae0bc7b17df/LICENSE


===
github.com/hashicorp/hcl2 0.0.0-20190416162332-2c5a4b7d729a
COPYRIGHT: 2018, HashiCorp
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl2/
blob/2c5a4b7d729a77cfb28562d43e248d9080f4cada/LICENSE


===
github.com/hashicorp/hcl 0.0.0-20170504190234-a4b07c25de5f
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl/blob/
a4b07c25de5ff55ad3b8936cea69a79a3d95a855/LICENSE


===
github.com/hashicorp/go-version 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-version/blob/v1.1.0/
LICENSE


===
github.com/hashicorp/go-uuid 1.0.1
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-uuid/blob/v1.0.1/LICENSE


===
github.com/hashicorp/go-tfe 0.3.16
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-tfe/blob/v0.3.16/LICENSE


===
github.com/hashicorp/go-slug 0.3.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-slug/blob/v0.3.0/LICENSE
```

```
===
github.com/hashicorp/go-safetemp 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-safetemp/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-rootcerts 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-rootcerts/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-retryablehttp 0.5.2
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-retryablehttp/blob/v0.5.2/
LICENSE


===
github.com/hashicorp/go-plugin 0.0.0-20190322172744-52e1c4730856
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-plugin/
blob/52e1c4730856c1438ced7597c9b5c585a7bd06a2/LICENSE


===
github.com/hashicorp/go-multierror 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-multierror/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-hclog 0.0.0-20181001195459-61d530d6c27f
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT)


===
github.com/hashicorp/go-getter 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-getter/blob/v1.1.0/LICENSE


===
github.com/hashicorp/go-cleanhttp 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-cleanhttp/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/go-checkpoint 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-checkpoint/blob/v0.5.0/
LICENSE


===
```

```
github.com/hashicorp/errwrap 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/errwrap/blob/v1.0.0/LICENSE


===
github.com/hashicorp/consul 0.0.0-20171026175957-610f3c86a089
COPYRIGHT: Copyright © 2014-2018 HashiCorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/consul/
blob/610f3c86a089817b5bd5729a3b8c2db33a9ae2b0/LICENSE


===
github.com/go-test/deep 1.0.1
COPYRIGHT: Copyright 2015-2017 Daniel Nichter
LICENSE: The MIT License (MIT)


===
github.com/gophercloud/utils 0.0.0-20190128072930-fbb6ab446f01
No Copyright Info
LICENSE: Apache 2.0 https://github.com/gophercloud/utils/blob/
fbb6ab446f0167dfa4d25b8eb0c0d2f873924516/LICENSE


===
github.com/gophercloud/gophercloud 0.0.0-20190208042652-bc37892e1968
COPYRIGHT: Copyright 2012-2013 Rackspace, Inc.
LICENSE: Apache 2.0 https://github.com/gophercloud/gophercloud/blob/
bc37892e196848d7d56ba0db974ba1d7d5c43b2a/LICENSE


===
github.com/googleapis/gax-go commit 9e33419
COPYRIGHT: Copyright 2016, Google Inc. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-querystring 1.0.0
COPYRIGHT: Copyright (c) 2013 Google. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/golang/protobuf 1.3.0
COPYRIGHT: Copyright 2010 The Go Authors.  All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/dylanmei/winrmtest 0.0.0-20190225150635-99b7fe2fddf1
COPYRIGHT: Copyright (c) 2014-2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/dylanmei/iso8601 0.1.0
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)
```

```
===
github.com/dgrijalva/jwt-go 3.2.0+incompatible
COPYRIGHT: Copyright (c) 2012 Dave Grijalva
LICENSE: The MIT License (MIT)



===
github.com/davecgh/go-spew 1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



===
github.com/coreos/go-semver 0.2.0
COPYRIGHT: Copyright 2018 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/coreos/go-semver/blob/v0.2.0/LICENSE


===
github.com/coreos/etcd 3.3.10+incompatible
COPYRIGHT: Copyright 2014 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/etcd-io/etcd/blob/v3.3.10/LICENSE


===
github.com/chzyer/readline 0.0.0-20161106042343-c914be64f07d
COPYRIGHT: Copyright (c) 2015 Chzyer
LICENSE: The MIT License (MIT)


===
github.com/ChrisTrenkamp/goxpath 0.0.0-20170922090931-c385f95c6022
COPYRIGHT: Copyright (c) 2015 ChrisTrenkamp
LICENSE: The MIT License (MIT)



===
github.com/blang/semver 3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)


===
github.com/bgentry/speakeasy 0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)
```

```
===
github.com/bgentry/go-netrc 0.0.0-20140422174119-9fd32a8b3d3d

COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)



===
github.com/Azure/go-ntlmssp 0.0.0-20180810175552-4a21cbd618b4
COPYRIGHT: Copyright (c) 2016 Microsoft
LICENSE: The MIT License (MIT)


===
github.com/Azure/go-autorest 10.15.4+incompatible
COPYRIGHT: Copyright 2017 Microsoft Corporation
LICENSE: Apache 2.0 https://github.com/Azure/go-autorest/blob/v10.15.4/
LICENSE


===
github.com/Azure/azure-sdk-for-go 21.3.0+incompatible
COPYRIGHT: Copyright 2014-2017 Microsoft
LICENSE: Apache 2.0 https://github.com/Azure/azure-sdk-for-go/blob/v21.3.0/
LICENSE


===
github.com/aws/aws-sdk-go 1.19.18
COPYRIGHT:
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/v1.19.18/
LICENSE.txt


===
github.com/armon/go-radix 1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)


===
github.com/armon/circbuf 0.0.0-20190214190532-5111143e8da2
COPYRIGHT: Copyright (c) 2013 Armon Dadgar
LICENSE: The MIT License (MIT)



===
github.com/apparentlymart/go-textseg 1.0.0

COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)
```

```
---------

Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.

---------

Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
```

```
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



===
github.com/apparentlymart/go-cidr 1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)


===
github.com/antchfx/xquery 0.0.0-20180515051857-ad5b8c7a47b0
COPYRIGHT: Copyright W3Schools.com
LICENSE: The MIT License (MIT)


====
github.com/antchfx/xpath 0.0.0-20190129040759-c8489ed3251e
COPYRIGHT: No Copyright
LICENSE: The MIT License (MIT)


===
github.com/agl/ed25519 0.0.0-20150830182803-278e1ec8e8a6
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause




github.com/agext/levenshtein 1.2.2
COPYRIGHT: Copyright 2016 ALRUX Inc.
LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/v1.2.2/LICENSE


===
cloud.google.com/go/storage commit 09ad026
cloud.google.com/go/internal commit 09ad026
cloud.google.com/go/iam commit 09ad026
cloud.google.com/go/compute commit 09ad026

COPYRIGHT: Copyright 2016 - 2018 Google LLC
LICENSE: Apache 2.0 https://github.com/googleapis/google-cloud-go/
blob/09ad026a62f0561b7f7e276569eda11a6afc9773/LICENSE
```

```
===
github.com/apparentlymart/go-dump 0.0.0-20190214190832-042adf3cf4a0
COPYRIGHT: Maintainer Martin Atkins
LICENSE: MPL v2.0 https://github.com/apparentlymart/go-dump/
blob/042adf3cf4a03793be12db534f39eb4707c3b5cd/LICENSE


===
github.com/dimchansky/utfbom 1.0.0
COPYRIGHT: Maintainer Dmitrij Koniajev
LICENSE: Apache 2.0 https://github.com/dimchansky/utfbom/blob/v1.0.0/LICENSE


===
github.com/fatih/color 1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT)


===
github.com/gogo/protobuf 1.2.0

COPYRIGHT:
Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets
Go support for Protocol Buffers - Google's data interchange format
Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

LICENSE: BSD 3-Clause


===
github.com/golang/mock 1.2.0
COPYRIGHT: Copyright 2010 - 2011 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/mock/blob/v1.2.0/LICENSE


===
github.com/golang/snappy 0.0.0-20180518054509-2e65f85255db
COPYRIGHT: Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-cmp 0.2.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/hashicorp/aws-sdk-go-base 0.2.0
COPYRIGHT: (C) Hashicorp
LICENSE: MPL v2.0 https://github.com/hashicorp/aws-sdk-go-base/blob/v0.2.0/
LICENSE


===
github.com/hashicorp/go-azure-helpers 0.0.0-20190129193224-166dfd221bb2
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/go-azure-helpers/
blob/166dfd221bb20c95f9db5be961c647a67646831e/LICENSE
```

```
===
github.com/hashicorp/terraform-config-inspect
 0.0.0-20190327195015-8022a2663a70
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/terraform-config-inspect/
blob/8022a2663a706bf2f36bfaf7968a9234f9e5a571/LICENSE


===
github.com/lib/pq 1.0.0
COPYRIGHT and LICENSE:

Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


===
github.com/marstr/guid 1.1.0
COPYRIGHT: Copyright (c) 2016 Martin Strobel
LICENSE: The MIT License (MIT)


==
github.com/vmihailenco/msgpack 4.0.1+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 3-Clause


===
https://github.com/census-instrumentation/opencensus-go commit 17d7955
COPYRIGHT: Copyright 2018, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-instrumentation/opencensus-go/
blob/17d7955af9d42886455ce010dd46878208041a58/LICENSE


===
google.golang.org/appengine/datastore commit 54a98f9
COPYRIGHT: Copyright 2013 - 2018 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE


===
google.golang.org/grpc/balancer commit 4b60e3b
```

```
google.golang.org/grpc/binarylog commit 4b60e3b
google.golang.org/grpc/encoding commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/
blob/4b60e3b6a1900853971945c616869c0fc211ac75/LICENSE
```

Provider: HashiCorp / Component(s): Terraform 0.12.4

```
Terraform 0.12.0-beta2

COPYRIGHT: (C) Hashicorp

LICENSE: MPL v2.0

Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
```

```
     file or files, that is not Covered Software.

1.8. “License”

     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.

1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
```

```
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
```

```
     rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
```

```
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
```

```
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an "as is" basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party's negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
```

```
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
 v.
 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
```

```
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice

      This Source Code Form is “Incompatible
      With Secondary Licenses”, as defined by
      the Mozilla Public License, v. 2.0.




**********************************
4P Dependencies:
**********************************


google.golang.org/grpc/tap commit 028242f
google.golang.org/grpc/status commit 028242f
google.golang.org/grpc/stats commit 028242f
google.golang.org/grpc/peer commit 028242f
google.golang.org/grpc/naming commit 028242f
google.golang.org/grpc/metadata commit 028242f
google.golang.org/grpc/keepalive commit 028242f
google.golang.org/grpc/internal commit 028242f
google.golang.org/grpc/health commit 028242f
google.golang.org/grpc/grpclog commit 028242f
google.golang.org/grpc/credentials commit 028242f
google.golang.org/grpc/connectivity commit 028242f
google.golang.org/grpc/codes commit 028242f

COPYRIGHT and LICENSE:
 * Copyright 2015 gRPC authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
```

```
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
```

```
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.
```

```
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



===
google.golang.org/genproto/googleapis commit 54afdca
COPYRIGHT: Copyright 2016 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/go-genproto/
blob/54afdca5d873f7b529e2ce3def1a99df16feda90/LICENSE



===
google.golang.org/appengine/urlfetch commit 54a98f9
google.golang.org/appengine/internal commit 54a98f9
COPYRIGHT: Copyright 2011 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE



===
google.golang.org/api/transport commit 680697c
google.golang.org/api/storage commit 680697c
google.golang.org/api/option commit 680697c
google.golang.org/api/iterator commit 680697c
google.golang.org/api/internal commit 680697c
google.golang.org/api/googleapi commit 680697c
google.golang.org/api/gensupport commit 680697c

COPYRIGHT:
Copyright (c) 2011 Google Inc. All rights reserved.

LICENSE: BSD 3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
```

```
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
golang.org/x/time 0.0.0-20190308202827-9d24e82272b4
golang.org/x/text 0.3.1-0.20180807135948-17ff2d5776d2
golang.org/x/sys 0.0.0-20190222072716-a9d3bda3a223
golang.org/x/oauth2 0.0.0-20190220154721-9b3c75971fc9
golang.org/x/net 0.0.0-20190311183353-d8887717615a
golang.org/x/crypto 0.0.0-20190308221718-c2843e01d9a2

COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD-3 Clause



===
github.com/zclconf/go-cty 0.0.0-20190426224007-b18a157db9e2
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins

LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
===
github.com/xlab/treeprint 0.0.0-20161029104018-1d6e34225557
COPYRIGHT: Copyright © 2016 Maxim Kupriianov <max@kc.vc>
LICENSE: The MIT License (MIT)


===
github.com/xanzy/ssh-agent 0.2.1
COPYRIGHT:
Copyright (c) 2014 David Mzareulyan
Copyright 2015, Sander van Harmelen
LICENSE: Apache 2.0 https://github.com/xanzy/ssh-agent/blob/v0.2.1/LICENSE


===
github.com/Unknwon/com 0.0.0-20151008135407-28b053d5a292
COPYRIGHT:
Copyright 2013 - 2015 com authors
LICENSE: Apache 2.0 https://github.com/Unknwon/com/
blob/28b053d5a2923b87ce8c5a08f3af779894a72758/LICENSE


===
github.com/ulikunitz/xz 0.5.5
COPYRIGHT: Copyright (c) 2014-2016  Ulrich Kunitz. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/ugorji/go 0.0.0-20180813092308-00b869d2f4a5
COPYRIGHT: Copyright (c) 2012-2015 Ugorji Nwoke. All rights reserved.
LICENSE: The MIT License (MIT)


===
github.com/terraform-providers/terraform-provider-openstack 1.15.0
COPYRIGHT: (c) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
openstack/blob/v1.15.0/LICENSE



===
github.com/svanharmelen/jsonapi 0.0.0-20180618144545-0c0828c3f16d
COPYRIGHT: Copyright (c) 2015 Google Inc.
LICENSE: The MIT License (MIT)


===
github.com/spf13/afero 1.2.1

COPYRIGHT:
Copyright © 2014 Steve Francia <spf@spf13.com>.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 tsuru authors. All rights reserved.

LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/v1.2.1/LICENSE.txt



===
github.com/satori/go.uuid 1.2.0
COPYRIGHT: Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>
```

```
LICENSE: The MIT License (MIT)


===
github.com/posener/complete 1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)


===
github.com/pkg/errors 0.0.0-20170505043639-c605e284fe17
COPYRIGHT: Copyright (c) 2015, Dave Cheney <dave@cheney.net> All rights
 reserved.

LICENSE: BSD 2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


===
github.com/packer-community/winrmcp 0.0.0-20180102160824-81144009af58
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/oklog/run 1.0.0
No Copyright info
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/v1.0.0/LICENSE



===
github.com/nu7hatch/gouuid 0.0.0-20131221200532-179d4d0c4d8d
COPYRIGHT: Copyright (C) 2011 by Krzysztof Kowalik <chris@nu7hat.ch>
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/reflectwalk 1.0.0
```

```
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/prefixedio 0.0.0-20190213213902-5733675afd51
COPYRIGHT: Copyright (c) 2015 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/panicwrap 0.0.0-20190213213626-17011010aaa4
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/mapstructure 1.1.2
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/hashstructure 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)



===
github.com/mitchellh/go-wordwrap 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-testing-interface 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-linereader 0.0.0-20190213213312-1b945b3263eb
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-homedir 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/copystructure 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/colorstring 0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)
```

```
===
github.com/mitchellh/cli 1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/v1.0.0/LICENSE



===
github.com/mattn/go-shellwords 1.0.4
COPYRIGHT: Copyright (c) 2017 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-isatty 0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-colorable 0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/masterzen/winrm 0.0.0-20190223112901-5e5c9a7fe54b
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/winrm/
blob/5e5c9a7fe54b25590c464f78841431cb803dcb66/LICENSE


===
github.com/masterzen/simplexml 0.0.0-20160608183007-4572e39b1ab9
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/simplexml/
blob/4572e39b1ab9fe03ee513ce6fc7e289e98482190/LICENSE



===
github.com/lusis/go-artifactory 0.0.0-20160115162124-7e4ce345df82
COPYRIGHT and LICENSE:
Apache License, Version 2.0

Copyright (c) 2016 John E. Vincent

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


===
github.com/keybase/go-crypto 0.0.0-20161004153544-93f5b35093ba
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
LICENSE: BSD 3-Clause


===
github.com/kardianos/osext 0.0.0-20190222173326-2bc1f35cddc0
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/joyent/triton-go 0.0.0-20180313100802-d8f9c0314926
COPYRIGHT: Copyright (c) 2018, Joyent, Inc. All rights reserved.
LICENSE: MPL v2.0 https://github.com/joyent/triton-go/blob/
d8f9c031492688b4b62b7fd29b1edd9897400c4e/LICENSE


===
github.com/jmespath/go-jmespath 0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



===
github.com/hashicorp/yamux 0.0.0-20180604194846-3520598351bb
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/yamux/
blob/3520598351bb3500a49ae9563f5539666ae0a27c/LICENSE


===
github.com/hashicorp/vault 0.10.4
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/vault/blob/v0.10.4/LICENSE


===
github.com/hashicorp/serf 0.0.0-20160124182025-e4ec8cc423bb
COPYRIGHT: Copyright (C) Hashicorp 2013
LICENSE: MPL v2.0 https://github.com/hashicorp/serf/blob/
e4ec8cc423bbe20d26584b96efbeb9102e16d05f/LICENSE


===
github.com/hashicorp/logutils 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/logutils/blob/v1.0.0/LICENSE


===
github.com/hashicorp/hil 0.0.0-20190212112733-ab17b08d6590
COPYRIGHT: (C) Hashicorp, Inc.
```

```
LICENSE: MPL v2.0 https://github.com/hashicorp/hil/blob/
ab17b08d659065faac4f4fbe15edaae0bc7b17df/LICENSE


===
github.com/hashicorp/hcl2 0.0.0-20190416162332-2c5a4b7d729a
COPYRIGHT: 2018, HashiCorp
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl2/
blob/2c5a4b7d729a77cfb28562d43e248d9080f4cada/LICENSE


===
github.com/hashicorp/hcl 0.0.0-20170504190234-a4b07c25de5f
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl/blob/
a4b07c25de5ff55ad3b8936cea69a79a3d95a855/LICENSE


===
github.com/hashicorp/go-version 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-version/blob/v1.1.0/
LICENSE


===
github.com/hashicorp/go-uuid 1.0.1
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-uuid/blob/v1.0.1/LICENSE


===
github.com/hashicorp/go-tfe 0.3.16
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-tfe/blob/v0.3.16/LICENSE


===
github.com/hashicorp/go-slug 0.3.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-slug/blob/v0.3.0/LICENSE


===
github.com/hashicorp/go-safetemp 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-safetemp/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-rootcerts 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-rootcerts/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-retryablehttp 0.5.2
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-retryablehttp/blob/v0.5.2/
LICENSE
```

```
===
github.com/hashicorp/go-plugin 0.0.0-20190322172744-52e1c4730856
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-plugin/
blob/52e1c4730856c1438ced7597c9b5c585a7bd06a2/LICENSE


===
github.com/hashicorp/go-multierror 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-multierror/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-hclog 0.0.0-20181001195459-61d530d6c27f
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT)


===
github.com/hashicorp/go-getter 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-getter/blob/v1.1.0/LICENSE


===
github.com/hashicorp/go-cleanhttp 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-cleanhttp/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/go-checkpoint 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-checkpoint/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/errwrap 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/errwrap/blob/v1.0.0/LICENSE


===
github.com/hashicorp/consul 0.0.0-20171026175957-610f3c86a089
COPYRIGHT: Copyright © 2014-2018 HashiCorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/consul/
blob/610f3c86a089817b5bd5729a3b8c2db33a9ae2b0/LICENSE


===
github.com/go-test/deep 1.0.1
COPYRIGHT: Copyright 2015-2017 Daniel Nichter
LICENSE: The MIT License (MIT)


===
github.com/gophercloud/utils 0.0.0-20190128072930-fbb6ab446f01
No Copyright Info
LICENSE: Apache 2.0 https://github.com/gophercloud/utils/blob/
fbb6ab446f0167dfa4d25b8eb0c0d2f873924516/LICENSE
```

```
===
github.com/gophercloud/gophercloud 0.0.0-20190208042652-bc37892e1968
COPYRIGHT: Copyright 2012-2013 Rackspace, Inc.
LICENSE: Apache 2.0 https://github.com/gophercloud/gophercloud/blob/
bc37892e196848d7d56ba0db974ba1d7d5c43b2a/LICENSE


===
github.com/googleapis/gax-go commit 9e33419
COPYRIGHT: Copyright 2016, Google Inc. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-querystring 1.0.0
COPYRIGHT: Copyright (c) 2013 Google. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/golang/protobuf 1.3.0
COPYRIGHT: Copyright 2010 The Go Authors.  All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/dylanmei/winrmtest 0.0.0-20190225150635-99b7fe2fddf1
COPYRIGHT: Copyright (c) 2014-2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/dylanmei/iso8601 0.1.0
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)


===
github.com/dgrijalva/jwt-go 3.2.0+incompatible
COPYRIGHT: Copyright (c) 2012 Dave Grijalva
LICENSE: The MIT License (MIT)



===
github.com/davecgh/go-spew 1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
```

```
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



===
github.com/coreos/go-semver 0.2.0
COPYRIGHT: Copyright 2018 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/coreos/go-semver/blob/v0.2.0/LICENSE


===
github.com/coreos/etcd 3.3.10+incompatible
COPYRIGHT: Copyright 2014 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/etcd-io/etcd/blob/v3.3.10/LICENSE


===
github.com/chzyer/readline 0.0.0-20161106042343-c914be64f07d
COPYRIGHT: Copyright (c) 2015 Chzyer
LICENSE: The MIT License (MIT)


===
github.com/ChrisTrenkamp/goxpath 0.0.0-20170922090931-c385f95c6022
COPYRIGHT: Copyright (c) 2015 ChrisTrenkamp
LICENSE: The MIT License (MIT)



===
github.com/blang/semver 3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)


===
github.com/bgentry/speakeasy 0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)


===
github.com/bgentry/go-netrc 0.0.0-20140422174119-9fd32a8b3d3d

COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)



===
github.com/Azure/go-ntlmssp 0.0.0-20180810175552-4a21cbd618b4
COPYRIGHT: Copyright (c) 2016 Microsoft
LICENSE: The MIT License (MIT)


===
github.com/Azure/go-autorest 10.15.4+incompatible
COPYRIGHT: Copyright 2017 Microsoft Corporation
```

```
LICENSE: Apache 2.0 https://github.com/Azure/go-autorest/blob/v10.15.4/
LICENSE


===
github.com/Azure/azure-sdk-for-go 21.3.0+incompatible
COPYRIGHT: Copyright 2014-2017 Microsoft
LICENSE: Apache 2.0 https://github.com/Azure/azure-sdk-for-go/blob/v21.3.0/
LICENSE


===
github.com/aws/aws-sdk-go 1.19.18
COPYRIGHT:
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/v1.19.18/
LICENSE.txt


===
github.com/armon/go-radix 1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)


===
github.com/armon/circbuf 0.0.0-20190214190532-5111143e8da2
COPYRIGHT: Copyright (c) 2013 Armon Dadgar
LICENSE: The MIT License (MIT)



===
github.com/apparentlymart/go-textseg 1.0.0

COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)


---------

Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.

---------
```

```
Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



===
```

```
github.com/apparentlymart/go-cidr 1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)


===
github.com/antchfx/xquery 0.0.0-20180515051857-ad5b8c7a47b0
COPYRIGHT: Copyright W3Schools.com
LICENSE: The MIT License (MIT)


====
github.com/antchfx/xpath 0.0.0-20190129040759-c8489ed3251e
COPYRIGHT: No Copyright
LICENSE: The MIT License (MIT)


===
github.com/agl/ed25519 0.0.0-20150830182803-278e1ec8e8a6
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause




github.com/agext/levenshtein 1.2.2
COPYRIGHT: Copyright 2016 ALRUX Inc.
LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/v1.2.2/LICENSE


===
cloud.google.com/go/storage commit 09ad026
cloud.google.com/go/internal commit 09ad026
cloud.google.com/go/iam commit 09ad026
cloud.google.com/go/compute commit 09ad026

COPYRIGHT: Copyright 2016 - 2018 Google LLC
LICENSE: Apache 2.0 https://github.com/googleapis/google-cloud-go/
blob/09ad026a62f0561b7f7e276569eda11a6afc9773/LICENSE



===
github.com/apparentlymart/go-dump 0.0.0-20190214190832-042adf3cf4a0
COPYRIGHT: Maintainer Martin Atkins
LICENSE: MPL v2.0 https://github.com/apparentlymart/go-dump/
blob/042adf3cf4a03793be12db534f39eb4707c3b5cd/LICENSE


===
github.com/dimchansky/utfbom 1.0.0
COPYRIGHT: Maintainer Dmitrij Koniajev
LICENSE: Apache 2.0 https://github.com/dimchansky/utfbom/blob/v1.0.0/LICENSE


===
github.com/fatih/color 1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT)


===
github.com/gogo/protobuf 1.2.0
```

```
COPYRIGHT:
Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets
Go support for Protocol Buffers - Google's data interchange format
Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

LICENSE: BSD 3-Clause


===
github.com/golang/mock 1.2.0
COPYRIGHT: Copyright 2010 - 2011 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/mock/blob/v1.2.0/LICENSE


===
github.com/golang/snappy 0.0.0-20180518054509-2e65f85255db
COPYRIGHT: Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-cmp 0.2.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/hashicorp/aws-sdk-go-base 0.2.0
COPYRIGHT: (C) Hashicorp
LICENSE: MPL v2.0 https://github.com/hashicorp/aws-sdk-go-base/blob/v0.2.0/
LICENSE


===
github.com/hashicorp/go-azure-helpers 0.0.0-20190129193224-166dfd221bb2
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/go-azure-helpers/
blob/166dfd221bb20c95f9db5be961c647a67646831e/LICENSE


===
github.com/hashicorp/terraform-config-inspect
 0.0.0-20190327195015-8022a2663a70
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/terraform-config-inspect/
blob/8022a2663a706bf2f36bfaf7968a9234f9e5a571/LICENSE


===
github.com/lib/pq 1.0.0
COPYRIGHT and LICENSE:

Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


===
github.com/marstr/guid 1.1.0
COPYRIGHT: Copyright (c) 2016 Martin Strobel
LICENSE: The MIT License (MIT)


==
github.com/vmihailenco/msgpack 4.0.1+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 3-Clause


===
https://github.com/census-instrumentation/opencensus-go commit 17d7955
COPYRIGHT: Copyright 2018, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-instrumentation/opencensus-go/
blob/17d7955af9d42886455ce010dd46878208041a58/LICENSE


===
google.golang.org/appengine/datastore commit 54a98f9
COPYRIGHT: Copyright 2013 - 2018 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE


===
google.golang.org/grpc/balancer commit 4b60e3b
google.golang.org/grpc/binarylog commit 4b60e3b
google.golang.org/grpc/encoding commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/
blob/4b60e3b6a1900853971945c616869c0fc211ac75/LICENSE
```

Provider: HashiCorp / Component(s): Terraform 0.12.6

```
Terraform 0.12.0-beta2

COPYRIGHT: (C) Hashicorp

LICENSE: MPL v2.0

Mozilla Public License, version 2.0

1. Definitions
```

```
1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.

1.8. “License”

     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.

1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.
```

```
1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.
```

```
2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
```

```
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
```

```
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty
```

```
   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party’s negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.


10. Versions of the License

10.1. New Versions
```

```
      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
 v.
 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

      This Source Code Form is "Incompatible
      With Secondary Licenses", as defined by
      the Mozilla Public License, v. 2.0.




*********************************
4P Dependencies:
*********************************


google.golang.org/grpc/tap commit 028242f
google.golang.org/grpc/status commit 028242f
google.golang.org/grpc/stats commit 028242f
google.golang.org/grpc/peer commit 028242f
```

```
google.golang.org/grpc/naming commit 028242f
google.golang.org/grpc/metadata commit 028242f
google.golang.org/grpc/keepalive commit 028242f
google.golang.org/grpc/internal commit 028242f
google.golang.org/grpc/health commit 028242f
google.golang.org/grpc/grpclog commit 028242f
google.golang.org/grpc/credentials commit 028242f
google.golang.org/grpc/connectivity commit 028242f
google.golang.org/grpc/codes commit 028242f

COPYRIGHT and LICENSE:
 * Copyright 2015 gRPC authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
```

```
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
```

of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

```
===
google.golang.org/genproto/googleapis commit 54afdca
COPYRIGHT: Copyright 2016 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/go-genproto/
blob/54afdca5d873f7b529e2ce3def1a99df16feda90/LICENSE



===
google.golang.org/appengine/urlfetch commit 54a98f9
google.golang.org/appengine/internal commit 54a98f9
COPYRIGHT: Copyright 2011 - 2019 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE



===
google.golang.org/api/transport commit 680697c
google.golang.org/api/storage commit 680697c
google.golang.org/api/option commit 680697c
google.golang.org/api/iterator commit 680697c
google.golang.org/api/internal commit 680697c
google.golang.org/api/googleapi commit 680697c
google.golang.org/api/gensupport commit 680697c

COPYRIGHT:
Copyright (c) 2011 Google Inc. All rights reserved.

LICENSE: BSD 3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
golang.org/x/time 0.0.0-20190308202827-9d24e82272b4
golang.org/x/text 0.3.1-0.20180807135948-17ff2d5776d2
```

```
golang.org/x/sys 0.0.0-20190222072716-a9d3bda3a223
golang.org/x/oauth2 0.0.0-20190220154721-9b3c75971fc9
golang.org/x/net 0.0.0-20190311183353-d8887717615a
golang.org/x/crypto 0.0.0-20190308221718-c2843e01d9a2

COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD-3 Clause



===
github.com/zclconf/go-cty 0.0.0-20190426224007-b18a157db9e2
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins

LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



===
github.com/xlab/treeprint 0.0.0-20161029104018-1d6e34225557
COPYRIGHT: Copyright © 2016 Maxim Kupriianov <max@kc.vc>
LICENSE: The MIT License (MIT)


===
github.com/xanzy/ssh-agent 0.2.1
COPYRIGHT:
Copyright (c) 2014 David Mzareulyan
Copyright 2015, Sander van Harmelen
LICENSE: Apache 2.0 https://github.com/xanzy/ssh-agent/blob/v0.2.1/LICENSE


===
github.com/Unknwon/com 0.0.0-20151008135407-28b053d5a292
COPYRIGHT:
Copyright 2013 - 2015 com authors
LICENSE: Apache 2.0 https://github.com/Unknwon/com/
blob/28b053d5a2923b87ce8c5a08f3af779894a72758/LICENSE


===
github.com/ulikunitz/xz 0.5.5
```

```
COPYRIGHT: Copyright (c) 2014-2016  Ulrich Kunitz. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/ugorji/go 0.0.0-20180813092308-00b869d2f4a5
COPYRIGHT: Copyright (c) 2012-2015 Ugorji Nwoke. All rights reserved.
LICENSE: The MIT License (MIT)


===
github.com/terraform-providers/terraform-provider-openstack 1.15.0
COPYRIGHT: (c) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
openstack/blob/v1.15.0/LICENSE



===
github.com/svanharmelen/jsonapi 0.0.0-20180618144545-0c0828c3f16d
COPYRIGHT: Copyright (c) 2015 Google Inc.
LICENSE: The MIT License (MIT)


===
github.com/spf13/afero 1.2.1

COPYRIGHT:
Copyright © 2014 Steve Francia <spf@spf13.com>.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 tsuru authors. All rights reserved.

LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/v1.2.1/LICENSE.txt



===
github.com/satori/go.uuid 1.2.0
COPYRIGHT: Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>
LICENSE: The MIT License (MIT)


===
github.com/posener/complete 1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)


===
github.com/pkg/errors 0.0.0-20170505043639-c605e284fe17
COPYRIGHT: Copyright (c) 2015, Dave Cheney <dave@cheney.net> All rights
 reserved.

LICENSE: BSD 2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
```

```
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


===
github.com/packer-community/winrmcp 0.0.0-20180102160824-81144009af58
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/oklog/run 1.0.0
No Copyright info
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/v1.0.0/LICENSE



===
github.com/nu7hatch/gouuid 0.0.0-20131221200532-179d4d0c4d8d
COPYRIGHT: Copyright (C) 2011 by Krzysztof Kowalik <chris@nu7hat.ch>
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/reflectwalk 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/prefixedio 0.0.0-20190213213902-5733675afd51
COPYRIGHT: Copyright (c) 2015 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/panicwrap 0.0.0-20190213213626-17011010aaa4
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/mapstructure 1.1.2
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/hashstructure 1.0.0
```

```
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)



===
github.com/mitchellh/go-wordwrap 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-testing-interface 1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-linereader 0.0.0-20190213213312-1b945b3263eb
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/go-homedir 1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/copystructure 1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/colorstring 0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)


===
github.com/mitchellh/cli 1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/v1.0.0/LICENSE



===
github.com/mattn/go-shellwords 1.0.4
COPYRIGHT: Copyright (c) 2017 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-isatty 0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT)


===
github.com/mattn/go-colorable 0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)
```

```
===
github.com/masterzen/winrm 0.0.0-20190223112901-5e5c9a7fe54b
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/winrm/
blob/5e5c9a7fe54b25590c464f78841431cb803dcb66/LICENSE


===
github.com/masterzen/simplexml 0.0.0-20160608183007-4572e39b1ab9
COPYRIGHT: Author Brice Figureau
LICENSE: Apache 2.0 https://github.com/masterzen/simplexml/
blob/4572e39b1ab9fe03ee513ce6fc7e289e98482190/LICENSE



===
github.com/lusis/go-artifactory 0.0.0-20160115162124-7e4ce345df82
COPYRIGHT and LICENSE:
Apache License, Version 2.0

Copyright (c) 2016 John E. Vincent

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


===
github.com/keybase/go-crypto 0.0.0-20161004153544-93f5b35093ba
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/kardianos/osext 0.0.0-20190222173326-2bc1f35cddc0
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/joyent/triton-go 0.0.0-20180313100802-d8f9c0314926
COPYRIGHT: Copyright (c) 2018, Joyent, Inc. All rights reserved.
LICENSE: MPL v2.0 https://github.com/joyent/triton-go/blob/
d8f9c031492688b4b62b7fd29b1edd9897400c4e/LICENSE


===
github.com/jmespath/go-jmespath 0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



===
github.com/hashicorp/yamux 0.0.0-20180604194846-3520598351bb
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/yamux/
blob/3520598351bb3500a49ae9563f5539666ae0a27c/LICENSE


===
github.com/hashicorp/vault 0.10.4
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/vault/blob/v0.10.4/LICENSE


===
github.com/hashicorp/serf 0.0.0-20160124182025-e4ec8cc423bb
COPYRIGHT: Copyright (C) Hashicorp 2013
LICENSE: MPL v2.0 https://github.com/hashicorp/serf/blob/
e4ec8cc423bbe20d26584b96efbeb9102e16d05f/LICENSE


===
github.com/hashicorp/logutils 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/logutils/blob/v1.0.0/LICENSE


===
github.com/hashicorp/hil 0.0.0-20190212112733-ab17b08d6590
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hil/blob/
ab17b08d659065faac4f4fbe15edaae0bc7b17df/LICENSE


===
github.com/hashicorp/hcl2 0.0.0-20190416162332-2c5a4b7d729a
COPYRIGHT: 2018, HashiCorp
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl2/
blob/2c5a4b7d729a77cfb28562d43e248d9080f4cada/LICENSE


===
github.com/hashicorp/hcl 0.0.0-20170504190234-a4b07c25de5f
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/hcl/blob/
a4b07c25de5ff55ad3b8936cea69a79a3d95a855/LICENSE


===
github.com/hashicorp/go-version 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-version/blob/v1.1.0/
LICENSE
```

```
===
github.com/hashicorp/go-uuid 1.0.1
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-uuid/blob/v1.0.1/LICENSE


===
github.com/hashicorp/go-tfe 0.3.16
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-tfe/blob/v0.3.16/LICENSE


===
github.com/hashicorp/go-slug 0.3.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-slug/blob/v0.3.0/LICENSE


===
github.com/hashicorp/go-safetemp 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-safetemp/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-rootcerts 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-rootcerts/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-retryablehttp 0.5.2
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-retryablehttp/blob/v0.5.2/
LICENSE


===
github.com/hashicorp/go-plugin 0.0.0-20190322172744-52e1c4730856
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL V2.0 https://github.com/hashicorp/go-plugin/
blob/52e1c4730856c1438ced7597c9b5c585a7bd06a2/LICENSE


===
github.com/hashicorp/go-multierror 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-multierror/blob/v1.0.0/
LICENSE


===
github.com/hashicorp/go-hclog 0.0.0-20181001195459-61d530d6c27f
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT)


===
github.com/hashicorp/go-getter 1.1.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-getter/blob/v1.1.0/LICENSE
```

```
===
github.com/hashicorp/go-cleanhttp 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-cleanhttp/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/go-checkpoint 0.5.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/go-checkpoint/blob/v0.5.0/
LICENSE


===
github.com/hashicorp/errwrap 1.0.0
COPYRIGHT: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/errwrap/blob/v1.0.0/LICENSE


===
github.com/hashicorp/consul 0.0.0-20171026175957-610f3c86a089
COPYRIGHT: Copyright © 2014-2018 HashiCorp, Inc.
LICENSE: MPL v2.0 https://github.com/hashicorp/consul/
blob/610f3c86a089817b5bd5729a3b8c2db33a9ae2b0/LICENSE


===
github.com/go-test/deep 1.0.1
COPYRIGHT: Copyright 2015-2017 Daniel Nichter
LICENSE: The MIT License (MIT)


===
github.com/gophercloud/utils 0.0.0-20190128072930-fbb6ab446f01
No Copyright Info
LICENSE: Apache 2.0 https://github.com/gophercloud/utils/blob/
fbb6ab446f0167dfa4d25b8eb0c0d2f873924516/LICENSE


===
github.com/gophercloud/gophercloud 0.0.0-20190208042652-bc37892e1968
COPYRIGHT: Copyright 2012-2013 Rackspace, Inc.
LICENSE: Apache 2.0 https://github.com/gophercloud/gophercloud/blob/
bc37892e196848d7d56ba0db974ba1d7d5c43b2a/LICENSE


===
github.com/googleapis/gax-go commit 9e33419
COPYRIGHT: Copyright 2016, Google Inc. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/google/go-querystring 1.0.0
COPYRIGHT: Copyright (c) 2013 Google. All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/golang/protobuf 1.3.0
```

```
COPYRIGHT: Copyright 2010 The Go Authors.  All rights reserved.
LICENSE: BSD 3-Clause



===
github.com/dylanmei/winrmtest 0.0.0-20190225150635-99b7fe2fddf1
COPYRIGHT: Copyright (c) 2014-2015 Dylan Meissner
LICENSE: The MIT License (MIT)



===
github.com/dylanmei/iso8601 0.1.0
COPYRIGHT: Copyright (c) 2015 Dylan Meissner
LICENSE: The MIT License (MIT)


===
github.com/dgrijalva/jwt-go 3.2.0+incompatible
COPYRIGHT: Copyright (c) 2012 Dave Grijalva
LICENSE: The MIT License (MIT)



===
github.com/davecgh/go-spew 1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



===
github.com/coreos/go-semver 0.2.0
COPYRIGHT: Copyright 2018 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/coreos/go-semver/blob/v0.2.0/LICENSE


===
github.com/coreos/etcd 3.3.10+incompatible
COPYRIGHT: Copyright 2014 CoreOS, Inc
LICENSE: Apache 2.0 https://github.com/etcd-io/etcd/blob/v3.3.10/LICENSE


===
github.com/chzyer/readline 0.0.0-20161106042343-c914be64f07d
COPYRIGHT: Copyright (c) 2015 Chzyer
LICENSE: The MIT License (MIT)
```

```
===
github.com/ChrisTrenkamp/goxpath 0.0.0-20170922090931-c385f95c6022
COPYRIGHT: Copyright (c) 2015 ChrisTrenkamp
LICENSE: The MIT License (MIT)



===
github.com/blang/semver 3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)


===
github.com/bgentry/speakeasy 0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)


===
github.com/bgentry/go-netrc 0.0.0-20140422174119-9fd32a8b3d3d

COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)



===
github.com/Azure/go-ntlmssp 0.0.0-20180810175552-4a21cbd618b4
COPYRIGHT: Copyright (c) 2016 Microsoft
LICENSE: The MIT License (MIT)


===
github.com/Azure/go-autorest 10.15.4+incompatible
COPYRIGHT: Copyright 2017 Microsoft Corporation
LICENSE: Apache 2.0 https://github.com/Azure/go-autorest/blob/v10.15.4/
LICENSE


===
github.com/Azure/azure-sdk-for-go 21.3.0+incompatible
COPYRIGHT: Copyright 2014-2017 Microsoft
LICENSE: Apache 2.0 https://github.com/Azure/azure-sdk-for-go/blob/v21.3.0/
LICENSE


===
github.com/aws/aws-sdk-go 1.19.18
COPYRIGHT:
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/v1.19.18/
LICENSE.txt


===
github.com/armon/go-radix 1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
```

```
LICENSE: The MIT License (MIT)


===
github.com/armon/circbuf 0.0.0-20190214190532-5111143e8da2
COPYRIGHT: Copyright (c) 2013 Armon Dadgar
LICENSE: The MIT License (MIT)



===
github.com/apparentlymart/go-textseg 1.0.0

COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)


---------

Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.

---------

Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
```

```
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



===
github.com/apparentlymart/go-cidr 1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)


===
github.com/antchfx/xquery 0.0.0-20180515051857-ad5b8c7a47b0
COPYRIGHT: Copyright W3Schools.com
LICENSE: The MIT License (MIT)


====
github.com/antchfx/xpath 0.0.0-20190129040759-c8489ed3251e
COPYRIGHT: No Copyright
LICENSE: The MIT License (MIT)


===
github.com/agl/ed25519 0.0.0-20150830182803-278e1ec8e8a6
COPYRIGHT: Copyright (c) 2012 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause
```

```
github.com/agext/levenshtein 1.2.2
COPYRIGHT: Copyright 2016 ALRUX Inc.
LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/v1.2.2/LICENSE


===
cloud.google.com/go/storage commit 09ad026
cloud.google.com/go/internal commit 09ad026
cloud.google.com/go/iam commit 09ad026
cloud.google.com/go/compute commit 09ad026

COPYRIGHT: Copyright 2016 - 2018 Google LLC
LICENSE: Apache 2.0 https://github.com/googleapis/google-cloud-go/
blob/09ad026a62f0561b7f7e276569eda11a6afc9773/LICENSE



===
github.com/apparentlymart/go-dump 0.0.0-20190214190832-042adf3cf4a0
COPYRIGHT: Maintainer Martin Atkins
LICENSE: MPL v2.0 https://github.com/apparentlymart/go-dump/
blob/042adf3cf4a03793be12db534f39eb4707c3b5cd/LICENSE


===
github.com/dimchansky/utfbom 1.0.0
COPYRIGHT: Maintainer Dmitrij Koniajev
LICENSE: Apache 2.0 https://github.com/dimchansky/utfbom/blob/v1.0.0/LICENSE


===
github.com/fatih/color 1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT)


===
github.com/gogo/protobuf 1.2.0

COPYRIGHT:
Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets
Go support for Protocol Buffers - Google's data interchange format
Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

LICENSE: BSD 3-Clause


===
github.com/golang/mock 1.2.0
COPYRIGHT: Copyright 2010 - 2011 Google Inc.
LICENSE: Apache 2.0 https://github.com/golang/mock/blob/v1.2.0/LICENSE


===
github.com/golang/snappy 0.0.0-20180518054509-2e65f85255db
COPYRIGHT: Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
```

```
github.com/google/go-cmp 0.2.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause


===
github.com/hashicorp/aws-sdk-go-base 0.2.0
COPYRIGHT: (C) Hashicorp
LICENSE: MPL v2.0 https://github.com/hashicorp/aws-sdk-go-base/blob/v0.2.0/
LICENSE


===
github.com/hashicorp/go-azure-helpers 0.0.0-20190129193224-166dfd221bb2
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/go-azure-helpers/
blob/166dfd221bb20c95f9db5be961c647a67646831e/LICENSE


===
github.com/hashicorp/terraform-config-inspect
 0.0.0-20190327195015-8022a2663a70
COPYRIGHT: (C) Hashicorp
LICENSE: MPL V2.0 https://github.com/hashicorp/terraform-config-inspect/
blob/8022a2663a706bf2f36bfaf7968a9234f9e5a571/LICENSE


===
github.com/lib/pq 1.0.0
COPYRIGHT and LICENSE:

Copyright (c) 2011-2013, 'pq' Contributors Portions Copyright (C) 2011 Blake
 Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


===
github.com/marstr/guid 1.1.0
COPYRIGHT: Copyright (c) 2016 Martin Strobel
LICENSE: The MIT License (MIT)


==
github.com/vmihailenco/msgpack 4.0.1+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 3-Clause
```

```
===
https://github.com/census-instrumentation/opencensus-go commit 17d7955
COPYRIGHT: Copyright 2018, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-instrumentation/opencensus-go/
blob/17d7955af9d42886455ce010dd46878208041a58/LICENSE


===
google.golang.org/appengine/datastore commit 54a98f9
COPYRIGHT: Copyright 2013 - 2018 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/
blob/54a98f90d1c46b7731eb8fb305d2a321c30ef610/LICENSE


===
google.golang.org/grpc/balancer commit 4b60e3b
google.golang.org/grpc/binarylog commit 4b60e3b
google.golang.org/grpc/encoding commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b
google.golang.org/grpc/resolver commit 4b60e3b

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/
blob/4b60e3b6a1900853971945c616869c0fc211ac75/LICENSE
```

Provider: HashiCorp / Component(s): Terraform Provider Archive 1.2.2

```
terraform-provider-archive
COPYRIGHT: (C) Hashicorp Inc
LICENSE: MPL v2.0

Mozilla Public License Version 2.0
==================================
1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

    (a) that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or

    (b) that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the
```

```
        terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
```

```
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------
```

```
3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
```

```
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
```

```
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
```

```
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.




****************************
4P Dependencies:
****************************
# github.com/hashicorp/errwrap
# github.com/hashicorp/go-cleanhttp
# github.com/hashicorp/go-getter
# github.com/hashicorp/go-multierror
# github.com/hashicorp/go-plugin
# github.com/hashicorp/go-safetemp
# github.com/hashicorp/go-uuid
# github.com/hashicorp/go-version
# github.com/hashicorp/hcl
# github.com/hashicorp/hcl2
# github.com/hashicorp/hil
# github.com/hashicorp/logutils
# github.com/hashicorp/terraform
# github.com/hashicorp/terraform-config-inspect
# github.com/hashicorp/yamux

COPYRIGHT: (C) Hashicorp Inc
LICENSE: MPL v2.0 github.com/hashicorp/errwrap

---
# github.com/mitchellh/cli
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/master/LICENSE
------

# github.com/agext/levenshtein
COPYRIGHT:
Alrux Go EXTensions (AGExt) - package levenshtein
Copyright 2016 ALRUX Inc.

LICENSE: Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


---
# github.com/aws/aws-sdk-go
github.com/aws/aws-sdk-go/aws
github.com/aws/aws-sdk-go/aws/credentials
github.com/aws/aws-sdk-go/aws/credentials/ec2rolecreds
github.com/aws/aws-sdk-go/aws/ec2metadata
github.com/aws/aws-sdk-go/aws/session
github.com/aws/aws-sdk-go/service/s3
github.com/aws/aws-sdk-go/aws/awserr
github.com/aws/aws-sdk-go/aws/endpoints
github.com/aws/aws-sdk-go/internal/sdkio
github.com/aws/aws-sdk-go/internal/ini
github.com/aws/aws-sdk-go/internal/shareddefaults
github.com/aws/aws-sdk-go/aws/client
github.com/aws/aws-sdk-go/internal/sdkuri
```

```
github.com/aws/aws-sdk-go/aws/client/metadata
github.com/aws/aws-sdk-go/aws/corehandlers
github.com/aws/aws-sdk-go/aws/request
github.com/aws/aws-sdk-go/aws/credentials/processcreds
github.com/aws/aws-sdk-go/aws/credentials/stscreds
github.com/aws/aws-sdk-go/aws/csm
github.com/aws/aws-sdk-go/aws/defaults
github.com/aws/aws-sdk-go/aws/awsutil
github.com/aws/aws-sdk-go/aws/signer/v4
github.com/aws/aws-sdk-go/internal/s3err
github.com/aws/aws-sdk-go/private/protocol
github.com/aws/aws-sdk-go/private/protocol/eventstream
github.com/aws/aws-sdk-go/private/protocol/eventstream/eventstreamapi
github.com/aws/aws-sdk-go/private/protocol/rest
github.com/aws/aws-sdk-go/private/protocol/restxml
github.com/aws/aws-sdk-go/internal/sdkrand
github.com/aws/aws-sdk-go/service/sts
github.com/aws/aws-sdk-go/aws/credentials/endpointcreds
github.com/aws/aws-sdk-go/private/protocol/query
github.com/aws/aws-sdk-go/private/protocol/xml/xmlutil
github.com/aws/aws-sdk-go/private/protocol/query/queryutil

COPYRIGHT:
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/master/
LICENSE.txt

---
# github.com/oklog/run
No Copyright info
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/master/LICENSE

---
# github.com/spf13/afero
COPYRIGHT:
// Copyright © 2014 Steve Francia <spf@spf13.com>.
// Copyright 2009 The Go Authors. All rights reserved.
// Copyright 2013 tsuru authors. All rights reserved.
LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/master/LICENSE.txt

--------
# google.golang.org/appengine
// Copyright 2011-Present The Go Authors.  All rights reserved.
// Copyright 2011-Present Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/blob/v1.4.0/LICENSE

---
# google.golang.org/genproto
COPYRIGHT: // Copyright 2016 - 2019 Google LLC
LICENSE: Apache 2.0 https://github.com/google/go-genproto/blob/master/
LICENSE

---
# google.golang.org/grpc
COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/blob/master/LICENSE

-------
# github.com/apparentlymart/go-cidr
COPYRIGHT and LICENSE:
Copyright (c) 2015 Martin Atkins
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
# github.com/apparentlymart/go-textseg
COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)


Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.
---
# github.com/armon/go-radix
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)

---
# github.com/bgentry/go-netrc
COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)


---
# github.com/bgentry/speakeasy
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)
```

```
This license applies to the non-Windows portions of this library. The
 Windows
portion maintains its own Apache 2.0 license.
Apache 2.0 LICENSE: https://github.com/bgentry/speakeasy/blob/v0.1.0/
LICENSE_WINDOWS

---
# github.com/blang/semver
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)

---
# github.com/davecgh/go-spew
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


---
# github.com/fatih/color
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT)

----
# github.com/golang/protobuf
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
# github.com/google/go-cmp
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause

---
# github.com/hashicorp/go-hclog
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License

---
# github.com/jmespath/go-jmespath v0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---
# github.com/mattn/go-colorable
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT)

---
# github.com/mattn/go-isatty
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT)

---
# github.com/mitchellh/colorstring
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)

---
# github.com/mitchellh/copystructure
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)

---
# github.com/mitchellh/go-homedir
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)

---
# github.com/mitchellh/go-testing-interface
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)

---
# github.com/mitchellh/go-wordwrap
```

```
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT)

---
# github.com/mitchellh/hashstructure
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT)

---
# github.com/mitchellh/mapstructure
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)

---
# github.com/mitchellh/reflectwalk
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT)

---
# github.com/posener/complete
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)

---
# github.com/ulikunitz/xz
COPYRIGHT: Copyright (c) 2014-2016 Ulrich Kunitz
LICENSE: The MIT License (MIT)

---
# github.com/vmihailenco/msgpack
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
# github.com/zclconf/go-cty
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins
LICENSE: The MIT License (MIT)

---
# golang.org/x/crypto v0.0.0-20190308221718-c2843e01d9a2
# golang.org/x/net v0.0.0-20190311183353-d8887717615a
```

```
# golang.org/x/sys v0.0.0-20190222072716-a9d3bda3a223
# golang.org/x/text v0.3.1-0.20180807135948-17ff2d5776d2

COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.

LICENSE: BSD 3-Clause
```

Provider: HashiCorp / Component(s): Terraform Provider Kubernetes 1.8.1

```
terraform-provider-kubernetes v1.8.1
COPYRIGHT: (C) Hashicorp Inc
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
kubernetes/blob/master/LICENSE

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.
```

```
1.10. "Modifications"
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
```

```
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
```

```
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
```

```
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------
```

```
Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.
```

```
Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.




***************************
4P Dependencies:
***************************

# cloud.google.com/go v0.36.0
https://github.com/googleapis/google-cloud-go
COPYRIGHT: // Copyright 2016 Google LLC
LICENSE: Apache 2.0 https://github.com/googleapis/google-cloud-go/blob/
master/LICENSE


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS




===
# contrib.go.opencensus.io/exporter/ocagent v0.5.0
COPYRIGHT: // Copyright 2018, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-ecosystem/opencensus-go-
exporter-ocagent/blob/master/LICENSE



===
# github.com/Azure/go-autorest v11.9.0+incompatible
COPYRIGHT: Copyright 2015 Microsoft Corporation
LICENSE: Apache 2.0 https://github.com/Azure/go-autorest/blob/master/LICENSE



===
# github.com/agext/levenshtein v1.2.2

NOTICE:
Alrux Go EXTensions (AGExt) - package levenshtein
Copyright 2016 ALRUX Inc.

This product includes software developed at ALRUX Inc.
(http://www.alrux.com/).

LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/master/LICENSE



===
# github.com/apparentlymart/go-cidr v1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
```

```
THE SOFTWARE.



===
# github.com/apparentlymart/go-textseg v1.0.0
COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)

---
Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.

---------

Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
```

```
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



===
# github.com/armon/go-radix v1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)



===
# github.com/aws/aws-sdk-go v1.20.19
NOTICE:
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/master/
LICENSE.txt



===
# github.com/beevik/etree v1.1.0
COPYRIGHT: Copyright 2015-2019 Brett Vickers. All rights reserved.
LICENSE: BSD 2-Clause https://github.com/beevik/etree/blob/master/LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

   1. Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
```

```
THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDER ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
# github.com/bgentry/go-netrc v0.0.0-20140422174119-9fd32a8b3d3d
COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)


===
# github.com/bgentry/speakeasy v0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)

This license applies to the non-Windows portions of this library. The
 Windows
portion maintains its own Apache 2.0 license.
Apache 2.0 LICENSE: https://github.com/bgentry/speakeasy/blob/v0.1.0/
LICENSE_WINDOWS


===
# github.com/blang/semver v3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)



===
# github.com/census-instrumentation/opencensus-proto v0.2.0
COPYRIGHT: # Copyright 2017-2019, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-instrumentation/opencensus-
proto/blob/master/LICENSE


===
# github.com/davecgh/go-spew v1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
```

```
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



===
# github.com/dgrijalva/jwt-go v3.2.0+incompatible
COPYRIGHT: Copyright (c) 2012 Dave Grijalva
LICENSE: The MIT License (MIT)



===
# github.com/fatih/color v1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT) https://github.com/fatih/color/blob/master/
LICENSE.md



===
# github.com/gogo/protobuf v1.2.1
COPYRIGHT: Copyright (c) 2013, The GoGo Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/gogo/protobuf/blob/master/LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
# github.com/golang/protobuf v1.3.1
COPYRIGHT: Copyright 2010 The Go Authors.  All rights reserved.
LICENSE: BSD 3-Clause https://github.com/golang/protobuf/blob/master/LICENSE



===
```

```
# github.com/golang/snappy v0.0.1
COPYRIGHT: Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/golang/snappy/blob/master/LICENSE


===
# github.com/google/btree v0.0.0-20180813153112-4030bb1f1f0c
COPYRIGHT: // Copyright 2014 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/btree/blob/master/LICENSE



===
# github.com/google/go-cmp v0.3.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/google/go-cmp/blob/master/LICENSE


===
# github.com/google/gofuzz v0.0.0-20170612174753-24818f796faf
COYRIGHT: Copyright 2014 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/google/gofuzz/blob/master/LICENSE


===
# github.com/googleapis/gax-go/v2 v2.0.3
COPYRIGHT: Copyright 2016, Google Inc.
LICENSE: BSD 3-Clause https://github.com/googleapis/gax-go/blob/master/
LICENSE


===
# github.com/googleapis/gnostic v0.2.0
COPYRIGHT: // Copyright 2017 Google Inc. All Rights Reserved.
LICENSE: Apache 2.0 https://github.com/googleapis/gnostic/blob/v0.2.0/
LICENSE


===
# github.com/gophercloud/gophercloud v0.0.0-20190523203818-4885c347dcf4
COPYRIGHT: Copyright 2012-2013 Rackspace
LICENSE: Apache 2.0 https://github.com/gophercloud/gophercloud/blob/master/
LICENSE


===
# github.com/gregjones/httpcache v0.0.0-20190212212710-3befbb6ad0cc
COPYRIGHT: Copyright © 2012 Greg Jones (greg.jones@gmail.com)
LICENSE: The MIT License (MIT) https://github.com/gregjones/httpcache/blob/
master/LICENSE.txt



===
# github.com/hashicorp/errwrap v1.0.0
# github.com/hashicorp/go-cleanhttp v0.5.1
# github.com/hashicorp/go-getter v1.3.1-0.20190627223108-da0323b9545e
# github.com/hashicorp/go-multierror v1.0.0
# github.com/hashicorp/go-plugin v1.0.1-0.20190610192547-a1bc61569a26
# github.com/hashicorp/go-safetemp v1.0.0
# github.com/hashicorp/go-uuid v1.0.1
# github.com/hashicorp/go-version v1.2.0
# github.com/hashicorp/golang-lru 0.5.0
# github.com/hashicorp/hcl 1.0.0
```

```
# github.com/hashicorp/hcl2 v0.0.0-20190416162332-2c5a4b7d729a
# github.com/hashicorp/hil v0.0.0-20190212132231-97b3a9cdfa93
github.com/hashicorp/logutils v1.0.0
# github.com/hashicorp/terraform v0.12.5
# github.com/hashicorp/terraform-config-inspect
 v0.0.0-20190327195015-8022a2663a70
# github.com/hashicorp/vault v1.1.2
# github.com/hashicorp/yamux 0.0.0-20181012175058-2f1d1f20f75d

COPYRIGHT: (C) Hashicorp Inc
LICENSE: MPL v2.0 https://www.mozilla.org/en-US/MPL/2.0/



===
# github.com/hashicorp/go-hclog v0.7.0
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT) https://github.com/hashicorp/go-hclog/blob/
master/LICENSE



===
# github.com/imdario/mergo v0.3.7

COPYRIGHT:
Copyright (c) 2013 Dario Castañé. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

LICENSE: BSD 3-Clause https://github.com/imdario/mergo/blob/master/LICENSE



===
# github.com/jen20/awspolicyequivalence v1.0.0
COPYRIGHT: No Copyright Information (Author James Nugent)
LICENSE: MPL v2.0 https://github.com/jen20/awspolicyequivalence/blob/master/
LICENSE



===
# github.com/jmespath/go-jmespath v0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



===
# github.com/json-iterator/go v1.1.5
COPYRIGHT: Copyright (c) 2016 json-iterator
```

```
LICENSE: The MIT License (MIT) https://github.com/json-iterator/go/blob/
master/LICENSE



===
# github.com/keybase/go-crypto v0.0.0-20190523171820-b785b22cc757
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/keybase/go-crypto/blob/master/
LICENSE



==
# github.com/kubernetes-sigs/aws-iam-authenticator
 v0.3.1-0.20181019024009-82544ec86140
COPYRIGHT: # Copyright 2017 by the contributors.
LICENSE: Apache 2.0 https://github.com/kubernetes-sigs/aws-iam-
authenticator/blob/master/LICENSE



===
# github.com/mattn/go-colorable v0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT) https://github.com/mattn/go-colorable/blob/
master/LICENSE


===
# github.com/mattn/go-isatty v0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT) https://github.com/mattn/go-isatty/blob/
master/LICENSE


===
# github.com/mitchellh/cli v1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/master/LICENSE


===
# github.com/mitchellh/colorstring v0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/colorstring/
blob/master/LICENSE


===
# github.com/mitchellh/copystructure v1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/copystructure/
blob/master/LICENSE


===
# github.com/mitchellh/go-homedir v1.1.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-homedir/blob/
master/LICENSE


===
```

```
# github.com/mitchellh/go-testing-interface v1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-testing-
interface/blob/master/LICENSE


===
# github.com/mitchellh/go-wordwrap v1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-wordwrap/
blob/master/LICENSE.md


===
# github.com/mitchellh/hashstructure v1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/hashstructure/
blob/master/LICENSE


===
# github.com/mitchellh/mapstructure v1.1.2
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/mapstructure/
blob/master/LICENSE


===
# github.com/mitchellh/reflectwalk v1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/reflectwalk/
blob/master/LICENSE



===
# github.com/modern-go/concurrent v0.0.0-20180306012644-bacd9c7ef1dd
COPYRIGHT: No Specified Copyright info. Author is Tao Wen
LICENSE: Apache 2.0 https://github.com/modern-go/concurrent/blob/master/
LICENSE


===
# github.com/modern-go/reflect2 v1.0.1
COPYRIGHT: No Specified Copyright info. Author is Tao Wen
LICENSE: Apache 2.0 https://github.com/modern-go/reflect2/blob/master/
LICENSE


===
# github.com/oklog/run v1.0.0
COPYRIGHT: No Specified Copyright info. Author is Peter Bourgon
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/master/LICENSE



===
# github.com/peterbourgon/diskv v2.0.1+incompatible
COPYRIGHT: Copyright (c) 2011-2012 Peter Bourgon
LICENSE: The MIT License (MIT) https://github.com/peterbourgon/diskv/blob/
master/LICENSE


===
```

```
# github.com/pierrec/lz4 v2.0.5+incompatible
COPYRIGHT: Copyright (c) 2015, Pierre Curto
LICENSE: BSD 3-Clause https://github.com/pierrec/lz4/blob/master/LICENSE



===
# github.com/posener/complete v1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)  https://github.com/posener/complete/blob/
master/LICENSE.txt


===
#github.com/robfig/cron v1.2.0
COPYRIGHT and LICENSE:
Copyright (C) 2012 Rob Figueiredo
All Rights Reserved.

MIT LICENSE

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


===
# github.com/satori/go.uuid v1.2.0
COPYRIGHT and LICENSE:
Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
```

```
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



===
# github.com/spf13/afero v1.2.1

COPYRIGHT:
// Copyright © 2014 Steve Francia <spf@spf13.com>.
// Copyright 2013 tsuru authors. All rights reserved.

LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/master/LICENSE



===
# github.com/spf13/pflag v1.0.3
COPYRIGHT:
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

LICENSE: BSD 3-Clause https://github.com/spf13/pflag/blob/master/LICENSE


===
# github.com/stoewer/go-strcase v1.0.2
COPYRIGHT: Copyright (c) 2017, Adrian Stoewer <adrian.stoewer@rz.ifi.lmu.de>
LICENSE: The MIT License (MIT) https://github.com/stoewer/go-strcase/blob/
master/LICENSE



===
# github.com/terraform-providers/terraform-provider-aws
 v0.0.0-20190510001811-4b894dbf13f6
COPYRIGHT: (C) Hashcorp Inc
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
aws/blob/master/LICENSE



===
# github.com/terraform-providers/terraform-provider-google v1.20.0
COPYRIGHT:
(C) Hashcorp Inc
(C) Google Cloud Graphite Team
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
google/blob/master/LICENSE



===
# github.com/ulikunitz/xz v0.5.6
COPYRIGHT: Copyright (c) 2014-2016  Ulrich Kunitz
LICENSE: BSD - Like Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* My name, Ulrich Kunitz, may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
# github.com/vmihailenco/msgpack v4.0.4+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 2-Clause https://github.com/vmihailenco/msgpack/blob/master/
LICENSE


===
# github.com/zclconf/go-cty v1.0.1-0.20190708163926-19588f92a98f
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins
LICENSE: The MIT License (MIT) https://github.com/zclconf/go-cty/blob/
master/LICENSE


===
# github.com/zclconf/go-cty-yaml v0.1.0
NOTICE and LICENSE:
This package is derived from gopkg.in/yaml.v2, which is copyright
2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Includes mechanical ports of code from libyaml, distributed under its
 original
license. See LICENSE.libyaml for more information.

Modifications for cty interfacing copyright 2019 Martin Atkins, and
```

```
distributed under the same license terms.



===
# go.opencensus.io v0.21.0
COPYRIGHT: // Copyright 2017-2018, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-instrumentation/opencensus-go/
blob/master/LICENSE


===
# golang.org/x/crypto v0.0.0-20190701094942-4def268fd1a4
# golang.org/x/net v0.0.0-20190502183928-7f726cade0ab
# golang.org/x/oauth2 v0.0.0-20190226205417-e64efc72b421
# golang.org/x/sync v0.0.0-20190423024810-112230192c58
# golang.org/x/sys v0.0.0-20190502175342-a43fa875dd82
# golang.org/x/text v0.3.2
# golang.org/x/time v0.0.0-20190308202827-9d24e82272b4
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/golang/crypto/blob/master/LICENSE



===
# google.golang.org/api v0.4.0
COPYRIGHT: Copyright (c) 2011 Google Inc. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/googleapis/google-api-go-client/
blob/master/LICENSE



===
# google.golang.org/appengine v1.4.0
// Copyright 2011-Present The Go Authors.  All rights reserved.
// Copyright 2011-Present Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/blob/v1.4.0/LICENSE


===
# google.golang.org/genproto v0.0.0-20190307195333-5fe7a883aa19
COPYRIGHT: // Copyright 2016 - 2019 Google LLC
LICENSE: Apache 2.0 https://github.com/google/go-genproto/blob/master/
LICENSE


==
# google.golang.org/grpc v1.20.1
COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/blob/master/LICENSE


===
# gopkg.in/inf.v0 v0.9.1
COPYRIGHT: Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The
 Go
Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/go-inf/inf/blob/v0.9.1/LICENSE



===
# gopkg.in/yaml.v2 v2.2.2
COPYRIGHT: Copyright 2011-2016 Canonical Ltd.
```

```
LICENSE: Apache 2.0 https://github.com/go-yaml/yaml/blob/v2.2.2/LICENSE

---
The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
    yamlh.go
    yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



===
# k8s.io/api v0.0.0-20181221193117-173ce66c1e39
COPYRIGHT: Copyright 2016-2018 The Kubernetes Authors.
LICENSE: Apache 2.0 https://github.com/kubernetes/api/blob/master/LICENSE



===
# k8s.io/apimachinery v0.0.0-20190210215030-4521e64aecd3
COPYRIGHT: Copyright 2014-2019 The Kubernetes Authors.
LICENSE: Apache 2.0 https://github.com/kubernetes/apimachinery/blob/master/
LICENSE



===
# k8s.io/client-go v10.0.0+incompatible
COPYRIGHT: # Copyright 2017 The Kubernetes Authors.
LICENSE: Apache 2.0 https://github.com/kubernetes/client-go/blob/master/
LICENSE
```

```
===
# k8s.io/klog v0.1.0
COPYRIGHT: (C) The Kubernetes Contributers
LICENSE: Apache 2.0 https://github.com/kubernetes/klog/blob/v0.1.0/LICENSE



===
# sigs.k8s.io/structured-merge-diff v0.0.0-20190130003954-e5e029740eb8
COPYRIGHT: Copyright 2018 The Kubernetes Authors.
LICENSE: Apache 2.0 https://github.com/kubernetes-sigs/structured-merge-
diff/blob/master/LICENSE



===
# sigs.k8s.io/yaml v1.1.0
COYRIGHT and LICENSE:

The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: HashiCorp / Component(s): Terraform Provider Local 1.2.2

```
You are receiving a copy of the _____________ program in both source and
 object code in the following JAR ___________ {development needs to identify
 the JAR}. The terms of the Oracle license do NOT apply to the _____________
 program; it is licensed under the following license, separately from the
 Oracle programs you receive. If you do not wish to install this program,
 you may {development to provide brief instruction on how not to install}.

terraform-provider-local v1.2.2
Copyright: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
local/blob/master/LICENSE

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
means each individual or legal entity that creates, contributes to
the creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used
by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached
the notice in Exhibit A, the Executable Form of such Source Code
Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described
in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the
terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.
```

```
1.7. "Larger Work"
means a work that combines Covered Software with other material, in
a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible,
whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to,
deletion from, or modification of the contents of Covered
Software; or

(b) any new file in Source Code Form that contains any Covered
Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method,
process, and apparatus claims, in any patent Licensable by such
Contributor that would be infringed, but for the grant of the
License, by the making, using, selling, offering for sale, having
made, import, or transfer of either its Contributions or its
Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU
Lesser General Public License, Version 2.1, the GNU Affero General
Public License, Version 3.0, or any later versions of those
licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this
License. For legal entities, "You" includes any entity that
controls, is controlled by, or is under common control with You. For
purposes of this definition, "control" means (a) the power, direct
or indirect, to cause the direction or management of such entity,
whether by contract or otherwise, or (b) ownership of more than
fifty percent (50%) of the outstanding shares or beneficial
ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available,
modify, display, perform, distribute, and otherwise exploit its
Contributions, either on an unmodified basis, with Modifications, or
as part of a Larger Work; and
```

```
(b) under Patent Claims of such Contributor to make, use, sell, offer
for sale, have made, import, and otherwise transfer either its
Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
or

(b) for infringements caused by: (i) Your and any other third party's
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
```

```
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
Form, as described in Section 3.1, and You must inform recipients of
the Executable Form how they can obtain a copy of such Source Code
Form by reasonable means in a timely manner, at a charge no more
than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
License, or sublicense it under different terms, provided that the
license for the Executable Form does not attempt to limit or alter
the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
```

```
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
* *
* 6. Disclaimer of Warranty *
* ------------------------- *
* *
* Covered Software is provided under this License on an "as is" *
* basis, without warranty of any kind, either expressed, implied, or *
* statutory, including, without limitation, warranties that the *
* Covered Software is free of defects, merchantable, fit for a *
* particular purpose or non-infringing. The entire risk as to the *
* quality and performance of the Covered Software is with You. *
* Should any Covered Software prove defective in any respect, You *
* (not any Contributor) assume the cost of any necessary servicing, *
* repair, or correction. This disclaimer of warranty constitutes an *
* essential part of this License. No use of any Covered Software is *
* authorized under this License except under this disclaimer. *
* *
************************************************************************

************************************************************************
* *
* 7. Limitation of Liability *
* -------------------------- *
* *
* Under no circumstances and under no legal theory, whether tort *
* (including negligence), contract, or otherwise, shall any *
* Contributor, or anyone who distributes Covered Software as *
* permitted above, be liable to You for any direct, indirect, *
* special, incidental, or consequential damages of any character *
* including, without limitation, damages for lost profits, loss of *
* goodwill, work stoppage, computer failure or malfunction, or any *
```

```
* and all other commercial damages or losses, even if such party *
* shall have been informed of the possibility of such damages. This *
* limitation of liability shall not apply to liability for death or *
* personal injury resulting from such party's negligence to the *
* extent applicable law prohibits such limitation. Some *
* jurisdictions do not allow the exclusion or limitation of *
* incidental or consequential damages, so this exclusion and *
* limitation may not apply to You. *
* *
**********************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
```

```
-------------------------------------------

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.



***************************
4P Dependencies:
***************************


# github.com/agext/levenshtein v1.2.2

NOTICE:
Alrux Go EXTensions (AGExt) - package levenshtein
Copyright 2016 ALRUX Inc.

This product includes software developed at ALRUX Inc.
(http://www.alrux.com/).


LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/master/LICENSE


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
```

```
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
```

```
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS




===
# github.com/apparentlymart/go-cidr v1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



===
# github.com/apparentlymart/go-textseg v1.0.0
COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)

---
Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
```

```
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.

---------

Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.
```

```
Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



===
# github.com/armon/go-radix v1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)


===
# github.com/aws/aws-sdk-go v1.16.36
NOTICE:
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/master/
LICENSE.txt


===
# github.com/bgentry/go-netrc v0.0.0-20140422174119-9fd32a8b3d3d
COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar . Newer
portions Copyright © 2014 Blake Gentry .

LICENSE: The MIT License (MIT)


===
# github.com/bgentry/speakeasy v0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)

This license applies to the non-Windows portions of this library. The
 Windows
portion maintains its own Apache 2.0 license.
Apache 2.0 LICENSE: https://github.com/bgentry/speakeasy/blob/v0.1.0/
LICENSE_WINDOWS


===
# github.com/blang/semver v3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang
LICENSE: The MIT License (MIT)



===
# github.com/davecgh/go-spew v1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
```

```
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


===
# github.com/fatih/color v1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT) https://github.com/fatih/color/blob/master/
LICENSE.md


===
# github.com/golang/protobuf v1.3.0
COPYRIGHT: Copyright 2010 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/golang/protobuf/blob/master/LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
# github.com/google/go-cmp v0.2.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/google/go-cmp/blob/master/LICENSE



===
# github.com/hashicorp/errwrap v1.0.0
# github.com/hashicorp/go-cleanhttp v0.5.0
# github.com/hashicorp/go-getter v1.1.0
# github.com/hashicorp/go-multierror v1.0.0
# github.com/hashicorp/go-plugin v0.0.0-20190322172744-52e1c4730856
# github.com/hashicorp/go-safetemp v1.0.0
# github.com/hashicorp/go-uuid v1.0.1
# github.com/hashicorp/go-version v1.1.0
```

```
# github.com/hashicorp/hcl 1.0.0
# github.com/hashicorp/hcl2 v0.0.0-20190416162332-2c5a4b7d729a
# github.com/hashicorp/hil v0.0.0-20190212112733-ab17b08d6590
# github.com/hashicorp/logutils v1.0.0
# github.com/hashicorp/terraform v0.12.0-
alpha4.0.20190424121927-9327eedb0417
# github.com/hashicorp/terraform-config-inspect
 v0.0.0-20190327195015-8022a2663a70
# github.com/hashicorp/yamux v0.0.0-20180604194846-3520598351bb

COPYRIGHT: (C) Hashicorp Inc
LICENSE: MPL v2.0 https://www.mozilla.org/en-US/MPL/2.0/



===
# github.com/hashicorp/go-hclog v0.0.0-20181001195459-61d530d6c27f
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT) https://github.com/hashicorp/go-hclog/blob/
master/LICENSE


===
# github.com/jmespath/go-jmespath v0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



===
# github.com/mattn/go-colorable v0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT) https://github.com/mattn/go-colorable/blob/
master/LICENSE


===
# github.com/mattn/go-isatty v0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO
LICENSE: The MIT License (MIT) https://github.com/mattn/go-isatty/blob/
master/LICENSE


===
# github.com/mitchellh/cli v1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/master/LICENSE


===
# github.com/mitchellh/colorstring v0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
```

```
LICENSE: The MIT License (MIT) https://github.com/mitchellh/colorstring/
blob/master/LICENSE


===
# github.com/mitchellh/copystructure v1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/copystructure/
blob/master/LICENSE



===
# github.com/mitchellh/go-homedir v1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-homedir/blob/
master/LICENSE


===
# github.com/mitchellh/go-testing-interface v1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-testing-
interface/blob/master/LICENSE


===
# github.com/mitchellh/go-wordwrap v1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-wordwrap/
blob/master/LICENSE.md


===
# github.com/mitchellh/hashstructure v1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/hashstructure/
blob/master/LICENSE


===
# github.com/mitchellh/mapstructure v1.1.2
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/mapstructure/
blob/master/LICENSE


===
# github.com/mitchellh/reflectwalk v1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/reflectwalk/
blob/master/LICENSE


===
# github.com/oklog/run v1.0.0
COPYRIGHT: No Specified Copyright info. Author is Peter Bourgon
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/master/LICENSE


===
# github.com/posener/complete v1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
```

```
LICENSE: The MIT License (MIT) https://github.com/posener/complete/blob/
master/LICENSE.txt



===
# github.com/spf13/afero v1.2.1

COPYRIGHT:
// Copyright © 2014 Steve Francia .
// Copyright 2013 tsuru authors. All rights reserved.

LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/master/LICENSE.txt


===
# github.com/ulikunitz/xz v0.5.5
COPYRIGHT: Copyright (c) 2014-2016 Ulrich Kunitz
LICENSE: BSD - Like Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

* My name, Ulrich Kunitz, may not be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
# github.com/vmihailenco/msgpack v4.0.1+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 2-Clause https://github.com/vmihailenco/msgpack/blob/master/
LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
```

```
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
# github.com/zclconf/go-cty v0.0.0-20190320224746-fd76348b9329
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins
LICENSE: The MIT License (MIT) https://github.com/zclconf/go-cty/blob/
master/LICENSE



===
# golang.org/x/crypto v0.0.0-20190308221718-c2843e01d9a2
# golang.org/x/net v0.0.0-20190311183353-d8887717615a
# golang.org/x/sys v0.0.0-20190222072716-a9d3bda3a223
# golang.org/x/text v0.3.1-0.20180807135948-17ff2d5776d2
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/golang/crypto/blob/master/LICENSE


===
# google.golang.org/appengine v1.4.0
// Copyright 2011-Present The Go Authors. All rights reserved.
// Copyright 2011-Present Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/blob/v1.4.0/LICENSE



===
# google.golang.org/genproto v0.0.0-20190201180003-4b09977fb922
COPYRIGHT: // Copyright 2016 - 2019 Google LLC
LICENSE: Apache 2.0 https://github.com/google/go-genproto/blob/master/
LICENSE


===
# google.golang.org/grpc v1.18.0
COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/blob/master/LICENSE
```

Provider: HashiCorp / Component(s): Terraform Provider Null 2.1.0

```
The source code for Terraform Null Provider is available under the
 following license.  A copy of the source materials and/or instructions
 on how to obtain the source code is available at http://www.oracle.com/
technetwork/opensource/index.htm. Warranties, support, indemnity or
 liability obligations, if any, are offered solely by Oracle to the extent
 set forth in Oracle license agreement.
```

```
COPYRIGHT: Copyright Hashicorp
LICENSE: MPL 2.0

Mozilla Public License Version 2.0
----------------

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

     (a) any file in Source Code Form that results from an addition to,
         deletion from, or modification of the contents of Covered
         Software; or

     (b) any new file in Source Code Form that contains any Covered
         Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
```

```
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or
```

```
(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
```

```
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
```

```
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
```

```
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.


-----------------
4P Dependencies:

github.com/hashicorp/hil commit 97b3a9c
COPYRIGHT: Copyright Hashicorp
```

```
LICENSE: MPL 2.0 https://github.com/hashicorp/hil/blob/
fac2259da677551de1fb92b844c4d020a38d8468/LICENS

---
https://github.com/hashicorp/hcl/ version v1.0.0
COPYRIGHT:  Copyright Vsevolod Stakhov and Fatih Arslan
LICENSE: https://github.com/hashicorp/hcl/blob/v1.0.0/LICENSE


---
github.com/hashicorp/terraform/ version v0.12.0-beta1
COPYRIGHT: Copyright Hashicorp
LICENSE: MPL 2.0 https://github.com/hashicorp/terraform/blob/v0.12.0-beta1/
LICENSE
```

Provider: HashiCorp / Component(s): Terraform Provider Random 2.1.2

```
terraform-provider-random 2.1.2
Copyright: (C) Hashicorp, Inc.
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
random/blob/master/LICENSE

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.
```

```
1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date
```

```
The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.
```

```
3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
```

```
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
```

```
*  jurisdictions do not allow the exclusion or limitation of          *
*  incidental or consequential damages, so this exclusion and         *
*  limitation may not apply to You.                                   *
*                                                                     *
***********************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.
```

```
If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.




**************************
4P Dependencies:
**************************


# github.com/agext/levenshtein v1.2.2

NOTICE:
Alrux Go EXTensions (AGExt) - package levenshtein
Copyright 2016 ALRUX Inc.

This product includes software developed at ALRUX Inc.
(http://www.alrux.com/).

LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/master/LICENSE



Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
```

```
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
```

```
   You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
   You must cause any modified files to carry prominent notices stating
 that You changed the files; and
   You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
   If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

   You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
```

```
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



===
# github.com/apparentlymart/go-cidr v1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



===
# github.com/apparentlymart/go-textseg v1.0.0
COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)

---
Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.
```

```
---------

Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.
```

```
===
# github.com/armon/go-radix v1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)


===
# github.com/aws/aws-sdk-go v1.16.36
NOTICE:
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/master/
LICENSE.txt


===
# github.com/bgentry/go-netrc v0.0.0-20140422174119-9fd32a8b3d3d
COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)


===
# github.com/bgentry/speakeasy v0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)

This license applies to the non-Windows portions of this library. The
 Windows
portion maintains its own Apache 2.0 license.
Apache 2.0 LICENSE: https://github.com/bgentry/speakeasy/blob/v0.1.0/
LICENSE_WINDOWS



===
# github.com/blang/semver v3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)



===
# github.com/davecgh/go-spew v1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
```

```
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



===
# github.com/dustinkirkland/golang-petname
 v0.0.0-20170105215008-242afa0b4f8a
COPYRIGHT: Copyright 2014 Dustin Kirkland <dustin.kirkland@gmail.com>
LICENSE: Apache 2.0 https://github.com/dustinkirkland/golang-petname/blob/
master/LICENSE



===
# github.com/fatih/color v1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT) https://github.com/fatih/color/blob/master/
LICENSE.md


===
# github.com/golang/protobuf v1.3.0
COPYRIGHT: Copyright 2010 The Go Authors.  All rights reserved.
LICENSE: BSD 3-Clause https://github.com/golang/protobuf/blob/master/LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


===
# github.com/google/go-cmp v0.2.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/google/go-cmp/blob/master/LICENSE


===
# github.com/hashicorp/errwrap v1.0.0
# github.com/hashicorp/go-cleanhttp v0.5.0
# github.com/hashicorp/go-getter v1.1.0
# github.com/hashicorp/go-multierror v1.0.0
```

```
# github.com/hashicorp/go-plugin v0.0.0-20190322172744-52e1c4730856
# github.com/hashicorp/go-safetemp v1.0.0
# github.com/hashicorp/go-uuid v1.0.1
# github.com/hashicorp/go-version v1.1.0
# github.com/hashicorp/hcl 1.0.0
# github.com/hashicorp/hcl2 v0.0.0-20190416162332-2c5a4b7d729a
# github.com/hashicorp/hil v0.0.0-20190212112733-ab17b08d6590
# github.com/hashicorp/logutils v1.0.0
# github.com/hashicorp/terraform v0.12.0-
alpha4.0.20190424121927-9327eedb0417
# github.com/hashicorp/terraform-config-inspect
 v0.0.0-20190327195015-8022a2663a70
# github.com/hashicorp/yamux v0.0.0-20180604194846-3520598351bb

COPYRIGHT: (C) Hashicorp Inc
LICENSE: MPL v2.0 https://www.mozilla.org/en-US/MPL/2.0/



===
# github.com/hashicorp/go-hclog v0.0.0-20181001195459-61d530d6c27f
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT) https://github.com/hashicorp/go-hclog/blob/
master/LICENSE



===
# github.com/jmespath/go-jmespath v0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



===
# github.com/mattn/go-colorable v0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT) https://github.com/mattn/go-colorable/blob/
master/LICENSE


===
# github.com/mattn/go-isatty v0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT) https://github.com/mattn/go-isatty/blob/
master/LICENSE


===
# github.com/mitchellh/cli v1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/master/LICENSE
```

```
===
# github.com/mitchellh/colorstring v0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/colorstring/
blob/master/LICENSE


===
# github.com/mitchellh/copystructure v1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/copystructure/
blob/master/LICENSE



===
# github.com/mitchellh/go-homedir v1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-homedir/blob/
master/LICENSE


===
# github.com/mitchellh/go-testing-interface v1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-testing-
interface/blob/master/LICENSE


===
# github.com/mitchellh/go-wordwrap v1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-wordwrap/
blob/master/LICENSE.md


===
# github.com/mitchellh/hashstructure v1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/hashstructure/
blob/master/LICENSE


===
# github.com/mitchellh/mapstructure v1.1.2
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/mapstructure/
blob/master/LICENSE


===
# github.com/mitchellh/reflectwalk v1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/reflectwalk/
blob/master/LICENSE



===
# github.com/oklog/run v1.0.0
COPYRIGHT: No Specified Copyright info. Author is Peter Bourgon
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/master/LICENSE
```

```
===
# github.com/posener/complete v1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)  https://github.com/posener/complete/blob/
master/LICENSE.txt



===
# github.com/spf13/afero v1.2.1

COPYRIGHT:
// Copyright © 2014 Steve Francia <spf@spf13.com>.
// Copyright 2013 tsuru authors. All rights reserved.

LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/master/LICENSE.txt


===
# github.com/ulikunitz/xz v0.5.5
COPYRIGHT: Copyright (c) 2014-2016  Ulrich Kunitz
LICENSE: BSD - Like Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* My name, Ulrich Kunitz, may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
# github.com/vmihailenco/msgpack v4.0.1+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 2-Clause https://github.com/vmihailenco/msgpack/blob/master/
LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
# golang.org/x/crypto v0.0.0-20190308221718-c2843e01d9a2
# golang.org/x/net v0.0.0-20190311183353-d8887717615a
# golang.org/x/sys v0.0.0-20190222072716-a9d3bda3a223
# golang.org/x/text v0.3.1-0.20180807135948-17ff2d5776d2
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/golang/crypto/blob/master/LICENSE



===
# google.golang.org/appengine v1.4.0
// Copyright 2011-Present The Go Authors.  All rights reserved.
// Copyright 2011-Present Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/blob/v1.4.0/LICENSE



===
# google.golang.org/genproto v0.0.0-20190201180003-4b09977fb922
COPYRIGHT: // Copyright 2016 - 2019 Google LLC
LICENSE: Apache 2.0 https://github.com/google/go-genproto/blob/master/
LICENSE


===
# google.golang.org/grpc v1.18.0
COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/blob/master/LICENSE


===
github.com/zclconf/go-cty v0.0.0-20190320224746-fd76348b9329
NOTICE:

This package is derived from gopkg.in/yaml.v2, which is copyright
2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Includes mechanical ports of code from libyaml, distributed under its
 original
license. See LICENSE.libyaml for more information.

Modifications for cty interfacing copyright 2019 Martin Atkins, and
distributed under the same license terms.

LICENSE: Apache 2.0 https://github.com/zclconf/go-cty-yaml/blob/master/
LICENSE

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
    yamlh.go
    yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: HashiCorp / Component(s): Terraform Provider TLS 2.0.1

```
terraform-provider-tls 2.0.1
Copyright: (C) Hashicorp, Inc.
```

```
LICENSE: MPL v2.0 https://github.com/terraform-providers/terraform-provider-
tls/blob/master/LICENSE

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

     (a) any file in Source Code Form that results from an addition to,
         deletion from, or modification of the contents of Covered
         Software; or

     (b) any new file in Source Code Form that contains any Covered
         Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
```

```
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or
```

```
(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
```

```
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
```

```
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
```

```
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.




*********************
4P Dependencies:
*********************
```

```
# github.com/agext/levenshtein v1.2.2

COPYRIGHT:
Alrux Go EXTensions (AGExt) - package levenshtein
Copyright 2016 ALRUX Inc.

LICENSE: Apache 2.0 https://github.com/agext/levenshtein/blob/master/LICENSE



Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
```

```
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
```

```
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



===
# github.com/apparentlymart/go-cidr v1.0.0
COPYRIGHT: Copyright (c) 2015 Martin Atkins
LICENSE: The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
```

```
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



===
# github.com/apparentlymart/go-textseg v1.0.0
COPYRIGHT: Copyright (c) 2017 Martin Atkins
LICENSE: The MIT License (MIT)

---
Unicode table generation programs are under a separate copyright and
 license:

Copyright (c) 2014 Couchbase, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file
except in compliance with the License. You may obtain a copy of the License
 at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the
License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND,
either express or implied. See the License for the specific language
 governing permissions
and limitations under the License.

---------

Grapheme break data is provided as part of the Unicode character database,
copright 2016 Unicode, Inc, which is provided with the following license:

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/,
 and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
```

```
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2017 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



===
# github.com/armon/go-radix v1.0.0
COPYRIGHT: Copyright (c) 2014 Armon Dadgar
LICENSE: The MIT License (MIT)


===
# github.com/aws/aws-sdk-go v1.16.36
COPYRIGHT:
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

LICENSE: Apache 2.0 https://github.com/aws/aws-sdk-go/blob/master/
LICENSE.txt


===
# github.com/bgentry/go-netrc v0.0.0-20140422174119-9fd32a8b3d3d
COPYRIGHT:
Original version Copyright © 2010 Fazlul Shahriar <fshahriar@gmail.com>.
 Newer
portions Copyright © 2014 Blake Gentry <blakesgentry@gmail.com>.

LICENSE: The MIT License (MIT)
```

```
===
# github.com/bgentry/speakeasy v0.1.0
COPYRIGHT: Copyright (c) 2017 Blake Gentry
LICENSE: The MIT License (MIT)

This license applies to the non-Windows portions of this library. The
 Windows
portion maintains its own Apache 2.0 license.
Apache 2.0 LICENSE: https://github.com/bgentry/speakeasy/blob/v0.1.0/
LICENSE_WINDOWS


===
# github.com/blang/semver v3.5.1+incompatible
COPYRIGHT: Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>
LICENSE: The MIT License (MIT)



===
# github.com/davecgh/go-spew v1.1.1
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


===
# github.com/fatih/color v1.7.0
COPYRIGHT: Copyright (c) 2013 Fatih Arslan
LICENSE: The MIT License (MIT) https://github.com/fatih/color/blob/master/
LICENSE.md


===
# github.com/golang/protobuf v1.3.0
COPYRIGHT: Copyright 2010 The Go Authors.  All rights reserved.
LICENSE: BSD 3-Clause https://github.com/golang/protobuf/blob/master/LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
```

```
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
# github.com/google/go-cmp v0.2.0
COPYRIGHT: Copyright (c) 2017 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/google/go-cmp/blob/master/LICENSE



===
# github.com/hashicorp/errwrap v1.0.0
# github.com/hashicorp/go-cleanhttp v0.5.0
# github.com/hashicorp/go-getter v1.1.0
# github.com/hashicorp/go-multierror v1.0.0
# github.com/hashicorp/go-plugin v0.0.0-20190322172744-52e1c4730856
# github.com/hashicorp/go-safetemp v1.0.0
# github.com/hashicorp/go-uuid v1.0.1
# github.com/hashicorp/go-version v1.1.0
# github.com/hashicorp/hcl 1.0.0
# github.com/hashicorp/hcl2 v0.0.0-20190416162332-2c5a4b7d729a
# github.com/hashicorp/hil v0.0.0-20190212112733-ab17b08d6590
# github.com/hashicorp/logutils v1.0.0
# github.com/hashicorp/terraform v0.12.0-
alpha4.0.20190424121927-9327eedb0417
# github.com/hashicorp/terraform-config-inspect
 v0.0.0-20190327195015-8022a2663a70
# github.com/hashicorp/yamux v0.0.0-20180604194846-3520598351bb

COPYRIGHT: (C) Hashicorp Inc
LICENSE: MPL v2.0 https://www.mozilla.org/en-US/MPL/2.0/



===
# github.com/hashicorp/go-hclog v0.0.0-20181001195459-61d530d6c27f
COPYRIGHT: Copyright (c) 2017 HashiCorp
LICENSE: The MIT License (MIT) https://github.com/hashicorp/go-hclog/blob/
master/LICENSE



===
# github.com/jmespath/go-jmespath v0.0.0-20180206201540-c2b33e8439af
COPYRIGHT and LICENSE:
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



===
# github.com/mattn/go-colorable v0.1.1
COPYRIGHT: Copyright (c) 2016 Yasuhiro Matsumoto
LICENSE: The MIT License (MIT) https://github.com/mattn/go-colorable/blob/
master/LICENSE


===
# github.com/mattn/go-isatty v0.0.5
COPYRIGHT: Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
LICENSE: The MIT License (MIT) https://github.com/mattn/go-isatty/blob/
master/LICENSE


===
# github.com/mitchellh/cli v1.0.0
COPYRIGHT: Author Mitchell Hashimoto
LICENSE: MPL v2.0 https://github.com/mitchellh/cli/blob/master/LICENSE



===
# github.com/mitchellh/colorstring v0.0.0-20190213212951-d06e56a500db
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/colorstring/
blob/master/LICENSE


===
# github.com/mitchellh/copystructure v1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/copystructure/
blob/master/LICENSE



===
# github.com/mitchellh/go-homedir v1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-homedir/blob/
master/LICENSE


===
# github.com/mitchellh/go-testing-interface v1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-testing-
interface/blob/master/LICENSE


===
# github.com/mitchellh/go-wordwrap v1.0.0
COPYRIGHT: Copyright (c) 2014 Mitchell Hashimoto
```

```
LICENSE: The MIT License (MIT) https://github.com/mitchellh/go-wordwrap/
blob/master/LICENSE.md


===
# github.com/mitchellh/hashstructure v1.0.0
COPYRIGHT: Copyright (c) 2016 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/hashstructure/
blob/master/LICENSE


===
# github.com/mitchellh/mapstructure v1.1.2
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/mapstructure/
blob/master/LICENSE


===
# github.com/mitchellh/reflectwalk v1.0.0
COPYRIGHT: Copyright (c) 2013 Mitchell Hashimoto
LICENSE: The MIT License (MIT) https://github.com/mitchellh/reflectwalk/
blob/master/LICENSE


===
# github.com/oklog/run v1.0.0
COPYRIGHT: No Specified Copyright info. Author is Peter Bourgon
LICENSE: Apache 2.0 https://github.com/oklog/run/blob/master/LICENSE



===
# github.com/posener/complete v1.2.1
COPYRIGHT: Copyright (c) 2017 Eyal Posener
LICENSE: The MIT License (MIT)  https://github.com/posener/complete/blob/
master/LICENSE.txt



===
# github.com/spf13/afero v1.2.1

COPYRIGHT:
// Copyright © 2014 Steve Francia <spf@spf13.com>.
// Copyright 2013 tsuru authors. All rights reserved.

LICENSE: Apache 2.0 https://github.com/spf13/afero/blob/master/LICENSE.txt



===
# github.com/ulikunitz/xz v0.5.5
COPYRIGHT: Copyright (c) 2014-2016  Ulrich Kunitz
LICENSE: BSD - Like Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
```

```
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* My name, Ulrich Kunitz, may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
# github.com/vmihailenco/msgpack v4.0.1+incompatible
COPYRIGHT: Copyright (c) 2013 The github.com/vmihailenco/msgpack Authors.
LICENSE: BSD 2-Clause https://github.com/vmihailenco/msgpack/blob/master/
LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


===
# github.com/zclconf/go-cty v0.0.0-20190320224746-fd76348b9329
COPYRIGHT: Copyright (c) 2017-2018 Martin Atkins
LICENSE: The MIT License (MIT) https://github.com/zclconf/go-cty/blob/
master/LICENSE



===
# golang.org/x/crypto v0.0.0-20190308221718-c2843e01d9a2
# golang.org/x/net v0.0.0-20190311183353-d8887717615a
# golang.org/x/sys v0.0.0-20190222072716-a9d3bda3a223
```

```
# golang.org/x/text v0.3.1-0.20180807135948-17ff2d5776d2
COPYRIGHT: Copyright (c) 2009 The Go Authors. All rights reserved.
LICENSE: BSD 3-Clause https://github.com/golang/crypto/blob/master/LICENSE


===
# google.golang.org/appengine v1.4.0
// Copyright 2011-Present The Go Authors.  All rights reserved.
// Copyright 2011-Present Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/golang/appengine/blob/v1.4.0/LICENSE



===
# google.golang.org/genproto v0.0.0-20190201180003-4b09977fb922
COPYRIGHT: // Copyright 2016 - 2019 Google LLC
LICENSE: Apache 2.0 https://github.com/google/go-genproto/blob/master/
LICENSE


===
# google.golang.org/grpc v1.18.0
COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/blob/master/LICENSE
```

Provider: HashiCorp / Component(s): Vault 0.11.4

```
Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.
1.3. “Contribution”
means Covered Software of a particular Contributor.
1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. “Incompatible With Secondary Licenses”
means
a. that the initial Contributor has attached the notice described in Exhibit
 B to the Covered Software; or
b. that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
1.6. “Executable Form”
means any form of the work other than Source Code Form.
1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. “License”
means this document.
1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. “Modifications”
```

```
means any of the following:
a. any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or
b. any new file in Source Code Form that contains any Covered Software.
1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form”
means the form of the work preferred for making modifications.
1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
a. under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
b. under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:
a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
c. under Patent Claims infringed by Covered Software in the absence of its
 Contributions.
This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
```

```
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
a. such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and
b. You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
```

```
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
```

```
10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.

-----------------

Fourth-party dependencies have the following licenses:
-----------------
./vendor/github.com/hashicorp/errwrap/LICENSE
Mozilla Public License, version 2.0

-----------------
./vendor/github.com/hashicorp/go-cleanhttp/LICENSE
Mozilla Public License, version 2.0
-----------------
./vendor/github.com/hashicorp/go-multierror/LICENSE
Mozilla Public License, version 2.0
-----------------
./vendor/github.com/hashicorp/go-rootcerts/LICENSE
Mozilla Public License, version 2.0

-----------------
/vendor/github.com/hashicorp/hcl/LICENSE
Mozilla Public License, version 2.0
-----------------
-----------------
./vendor/github.com/mitchellh/go-homedir/LICENSE
The MIT License (MIT)
Copyright (c) 2013 Mitchell Hashimoto
-----------------
./vendor/github.com/mitchellh/mapstructure/LICENSE
The MIT License (MIT)
Copyright (c) 2013 Mitchell Hashimoto
-----------------
```

```
github.com/sethgrid/pester
The MIT License (MIT)
Copyright (c) SendGrid 2016
-----------------
./vendor/github.com/ryanuber/go-glob/LICENSE
The MIT License (MIT)
Copyright (c) 2014 Ryan Uber
-----------------
github.com/fatih/structs/LICENSE
The MIT License (MIT)
Copyright (c) 2014 Fatih Arslan
-----------------

The MIT License
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------
-----------------
./vendor/golang.org/x/text/LICENSE
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
```

```
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-----------------
./vendor/github.com/golang/snappy/LICENSE

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------
```

Provider: HashiCorp / Component(s): Vault 0.9.4

```
Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.
1.3. “Contribution”
means Covered Software of a particular Contributor.
1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. “Incompatible With Secondary Licenses”
means
a. that the initial Contributor has attached the notice described in Exhibit
 B to the Covered Software; or
b. that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
1.6. “Executable Form”
```

```
means any form of the work other than Source Code Form.
1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. “License”
means this document.
1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. “Modifications”
means any of the following:
a. any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or
b. any new file in Source Code Form that contains any Covered Software.
1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form”
means the form of the work preferred for making modifications.
1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
a. under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
b. under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:
a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
c. under Patent Claims infringed by Covered Software in the absence of its
 Contributions.
```

```
This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
a. such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and
b. You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
```

```
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
```

```
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.

====================================

Fourth-party dependencies have the following licenses:
====================================
./vendor/github.com/hashicorp/errwrap/LICENSE
Mozilla Public License, version 2.0

====================================
./vendor/github.com/hashicorp/go-cleanhttp/LICENSE
Mozilla Public License, version 2.0

====================================
./vendor/github.com/hashicorp/go-multierror/LICENSE
Mozilla Public License, version 2.0

====================================
./vendor/github.com/hashicorp/go-rootcerts/LICENSE
Mozilla Public License, version 2.0

====================================
/vendor/github.com/hashicorp/hcl/LICENSE
```

```
Mozilla Public License, version 2.0

====================================
====================================
./vendor/github.com/mitchellh/go-homedir/LICENSE
The MIT License (MIT)
Copyright (c) 2013 Mitchell Hashimoto

====================================
./vendor/github.com/mitchellh/mapstructure/LICENSE
The MIT License (MIT)
Copyright (c) 2013 Mitchell Hashimoto

====================================
github.com/sethgrid/pester
The MIT License (MIT)
Copyright (c) SendGrid 2016

====================================
./vendor/github.com/ryanuber/go-glob/LICENSE
The MIT License (MIT)
Copyright (c) 2014 Ryan Uber

====================================
github.com/fatih/structs/LICENSE
The MIT License (MIT)
Copyright (c) 2014 Fatih Arslan

====================================

The MIT License
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

====================================
====================================
./vendor/golang.org/x/text/LICENSE
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

===================================
./vendor/github.com/golang/snappy/LICENSE

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===================================
```

Provider: HashiCorp / Component(s): yamux 2f1d1f2

```
Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the
```

```
creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a
Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the
notice in Exhibit A, the Executable Form of such Source Code Form, and
Modifications of such Source Code Form, in each case including portions
thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in
Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the terms of
a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a
separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether
at the time of the initial grant or subsequently, any and all of the
rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to,
deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method,
process, and apparatus claims, in any patent Licensable by such
Contributor that would be infringed, but for the grant of the License,
by the making, using, selling, offering for sale, having made, import,
or transfer of either its Contributions or its Contributor Version.
```

```
1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser
General Public License, Version 2.1, the GNU Affero General Public
License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this
License. For legal entities, "You" includes any entity that controls, is
controlled by, or is under common control with You. For purposes of this
definition, "control" means (a) the power, direct or indirect, to cause
the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

a. under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available,
modify, display, perform, distribute, and otherwise exploit its
Contributions, either on an unmodified basis, with Modifications, or
as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its
Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
Version); or

c. under Patent Claims infringed by Covered Software in the absence of
its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
```

```
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights to
grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form,
as described in Section 3.1, and You must inform recipients of the
Executable Form how they can obtain a copy of such Source Code Form by
reasonable means in a timely manner, at a charge no more than the cost
of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this
License, or sublicense it under different terms, provided that the
license for the Executable Form does not attempt to limit or alter the
recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
```

```
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty, or
limitations of liability) contained within the Source Code Form of the
Covered Software, except that You may alter any license notices to the
extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute,
judicial order, or regulation then You must: (a) comply with the terms of
this License to the maximum extent possible; and (b) describe the
limitations and the code they affect. Such description must be placed in a
text file included with all distributions of the Covered Software under
this License. Except to the extent prohibited by statute or regulation,
such description must be sufficiently detailed for a recipient of ordinary
skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
fail to comply with any of its terms. However, if You become compliant,
then the rights granted under this License from a particular Contributor
are reinstated (a) provisionally, unless and until such Contributor
explicitly and finally terminates Your grants, and (b) on an ongoing
basis, if such Contributor fails to notify You of the non-compliance by
some reasonable means prior to 60 days after You have come back into
compliance. Moreover, Your grants from a particular Contributor are
reinstated on an ongoing basis if such Contributor notifies You of the
non-compliance by some reasonable means, this is the first time You have
received notice of non-compliance with this License from such
Contributor, and You become compliant prior to 30 days after Your receipt
of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
```

```
termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis,
without warranty of any kind, either expressed, implied, or statutory,
including, without limitation, warranties that the Covered Software is free
of defects, merchantable, fit for a particular purpose or non-infringing.
The entire risk as to the quality and performance of the Covered Software
is with You. Should any Covered Software prove defective in any respect,
You (not any Contributor) assume the cost of any necessary servicing,
repair, or correction. This disclaimer of warranty constitutes an essential
part of this License. No use of any Covered Software is authorized under
this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses, even if such party shall have been
informed of the possibility of such damages. This limitation of liability
shall not apply to liability for death or personal injury resulting from
such party's negligence to the extent applicable law prohibits such
limitation. Some jurisdictions do not allow the exclusion or limitation of
incidental or consequential damages, so this exclusion and limitation may
not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts
of a jurisdiction where the defendant maintains its principal place of
business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions. Nothing
in this Section shall prevent a party's ability to bring cross-claims or
counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides that
the language of a contract shall be construed against the drafter shall not
be used to construe this License against a Contributor.


10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
```

```
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses If You choose to distribute Source Code Form that is
Incompatible With Secondary Licenses under the terms of this version of
the License, the notice described in Exhibit B of this License must be
attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.
```

Provider: Henry Prêcheur / Component(s): rfc3339 6.0

```
Copyright © 2016, 2017  Henry Prêcheur <henry@precheur.org>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```

Provider: HSQL Development Group / Component(s): HSQLDB 2.4.1

```
COPYRIGHTS AND LICENSES (based on BSD License)

For work developed by the HSQL Development Group:

Copyright (c) 2001-2016, The HSQL Development Group
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of the HSQL Development Group nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL HSQL DEVELOPMENT GROUP, HSQLDB.ORG,
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


For work originally developed by the Hypersonic SQL Group:

Copyright (c) 1995-2000 by the Hypersonic SQL Group.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of the Hypersonic SQL Group nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE HYPERSONIC SQL GROUP,
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of voluntary contributions made by many individuals
 on behalf of the
Hypersonic SQL Group.
```

```
++++++++++++++++++++++++++++++
Below 4th party dependencies
++++++++++++++++++++++++++++++

FOP, v1.0, Apache 2.0
Apache FOP
Copyright 1999-2018 The Apache Software Foundation

++++++++++++++++++++++++++++++
xmlgraphics-commons, v1.4, Apache 2.0
Apache XML Graphics Commons
Copyright 2006-2018 The Apache Software Foundation

++++++++++++++++++++++++++++++
avalon-framework, v4.3.1, Apache 2.0
Copyright (c) 1997-2003 The Apache Software Foundation.  * reserved.

++++++++++++++++++++++++++++++
Batik, v1.7, Apache 2.0
Apache Batik
Copyright 1999-2018 The Apache Software Foundation


++++++++++++++++++++++++++++++
commons-io,  v2.1, Apache 2.0
Apache Commons IO
Copyright 2002-2017 The Apache Software Foundation

++++++++++++++++++++++++++++++
commons-logging,  v1.1.1, Apache 2.0
Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation


++++++++++++++++++++++++++++++
xalan, v2.7.1,  Apache 2.0
Apache Xalan (Xalan XSLT processor)
Copyright 1999-2006 The Apache Software Foundation

Apache Xalan (Xalan serializer)
Copyright 1999-2006 The Apache Software Foundation

++++++++++++++++++++++++++++++
JFlex, v1.4.3, BSD-3 license
JFlex is free software, published under the terms of this 3-clause BSD-style
 license.

Copyright (c) Gerwin Klein, Steve Rowe, Régis Decamps. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the names of the authors nor the names of JFlex contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
```

```
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
```

Provider: http://rsync.samba.org / Component(s): rsync 3.1.3

```
          GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.
```

```
  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.
```

```
  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
```

```
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
```

```
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
```

```
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
```

```
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
```

```
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
```

```
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
```

```
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs
```

```
  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

-----------------------------------------------
Copyright:

Copyright (c) 1998  Red Hat Software

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
 be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from the X Consortium.
```

Provider: https://pypi.python.org/pypi/pip / Component(s): pip 18.0

```
Copyright (c) 2008-2018 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Hugging Face / Component(s): datasets 2.17.1

```
===================== Package: datasets ==========================
Name: datasets
Source code URL: https://github.com/huggingface/datasets
License: Apache License 2.0

===================== Dependencies ==========================
aiohttp (Apache License 2.0) [https://github.com/aio-libs/aiohttp]
aiosignal (Apache License 2.0) [https://github.com/aio-libs/aiosignal]
async-timeout (Apache License 2.0) [https://github.com/aio-libs/async-
timeout]
attrs (MIT License) [https://github.com/python-attrs/attrs]
charset-normalizer (MIT License) [https://github.com/Ousret/
charset_normalizer]
dill (BSD 3-Clause "New" or "Revised" License) [https://github.com/
uqfoundation/dill]
filelock (The Unlicense) [https://github.com/tox-dev/py-filelock]
frozenlist (Apache License 2.0) [https://github.com/aio-libs/frozenlist]
fsspec (BSD 3-Clause "New" or "Revised" License) [https://github.com/fsspec/
filesystem_spec]
```

```
huggingface-hub (Apache License 2.0) [https://github.com/huggingface/
huggingface_hub]
multidict (Apache License 2.0) [https://github.com/aio-libs/multidict]
multiprocess (BSD 3-Clause "New" or "Revised" License) [https://github.com/
uqfoundation/multiprocess]
numpy (BSD 3-Clause "New" or "Revised" License) [https://github.com/numpy/
numpy]
pandas (BSD 3-Clause License) [https://github.com/pandas-dev/pandas]
pyarrow (Apache License 2.0) [https://github.com/apache/arrow/tree/master/
python/pyarrow]
python-dateutil (Apache License 2.0) [https://github.com/dateutil/dateutil]
pytz (MIT License) [https://github.com/stub42/pytz]
pyyaml (MIT License) [https://github.com/yaml/pyyaml]
responses (Apache License 2.0) [https://github.com/getsentry/responses]
six (MIT License) [https://github.com/benjaminp/six]
tqdm (MIT License) [https://github.com/tqdm/tqdm]
tzdata (Apache License 2.0) [https://github.com/python/tzdata]
xxhash (BSD 2-Clause "Simplified" License) [https://github.com/ifduyue/
python-xxhash]
yarl (Apache License 2.0) [https://github.com/aio-libs/yarl/]

===================== Licenses ==========================

----------- datasets (Apache License 2.0) [https://github.com/huggingface/
datasets] -----------
Copyright notice(s):

Copyright Google Inc.
Copyright HuggingFace Inc.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
```

```
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
    identification within third-party archives.
Copyright [yyyy] [name of copyright owner]
Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


----------- aiohttp (Apache License 2.0) [https://github.com/aio-libs/
aiohttp] -----------
Copyright notice(s):

Copyright aio-libs contributors.


License fulltext:
   Copyright aio-libs contributors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- aiosignal (Apache License 2.0) [https://github.com/aio-libs/
aiosignal] -----------
Copyright notice(s):

Copyright 2013-2019 Nikolay Kim and Andrew Svetlov


License fulltext:
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
```

```
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "{}"
```

```
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2013-2019 Nikolay Kim and Andrew Svetlov
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- async-timeout (Apache License 2.0) [https://github.com/aio-libs/
async-timeout] -----------
Copyright notice(s):

Copyright 2016-2020 aio-libs collaboration.


License fulltext:
Copyright 2016-2020 aio-libs collaboration.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
   http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------- attrs (MIT License) [https://github.com/python-attrs/attrs]
 -----------
Copyright notice(s):

Copyright (c) 2015 Hynek Schlawack and the attrs contributors



License fulltext:
The MIT License (MIT)
Copyright (c) 2015 Hynek Schlawack and the attrs contributors
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- charset-normalizer (MIT License) [https://github.com/Ousret/
charset_normalizer] -----------
Copyright notice(s):

Copyright (c) 2019 TAHRI Ahmed R.


License fulltext:
MIT License
Copyright (c) 2019 TAHRI Ahmed R.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- dill (BSD 3-Clause "New" or "Revised" License) [https://
github.com/uqfoundation/dill] -----------
Copyright notice(s):

Copyright (c) 2004-2016 California Institute of Technology.
Copyright (c) 2016-2023 The Uncertainty Quantification Foundation.
All rights reserved.


License fulltext:
Copyright (c) 2004-2016 California Institute of Technology.
Copyright (c) 2016-2023 The Uncertainty Quantification Foundation.
All rights reserved.
This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met::
    - Redistribution of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    - Redistribution in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentations and/or other materials provided with the distribution.
    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
```

```
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- filelock (The Unlicense) [https://github.com/tox-dev/py-
filelock] -----------
Copyright notice(s):

Copyright © 2014-2022, tox-dev


License fulltext:
This is free and unencumbered software released into the public domain.
Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.
In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
For more information, please refer to <http://unlicense.org>

----------- frozenlist (Apache License 2.0) [https://github.com/aio-libs/
frozenlist] -----------
Copyright notice(s):

Copyright 2013-2019 Nikolay Kim and Andrew Svetlov


License fulltext:
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and
    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and
    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
```

```
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2013-2019 Nikolay Kim and Andrew Svetlov
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- fsspec (BSD 3-Clause "New" or "Revised" License) [https://
github.com/fsspec/filesystem_spec] -----------
Copyright notice(s):
Copyright (c) 2018, Martin Durant

All rights reserved.



License fulltext:
BSD 3-Clause License
Copyright (c) 2018, Martin Durant
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
----------- huggingface-hub (Apache License 2.0) [https://github.com/
huggingface/huggingface_hub] -----------
Copyright notice(s):

Copyright 2022-present, the HuggingFace Inc. team.


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- multidict (Apache License 2.0) [https://github.com/aio-libs/
multidict] -----------
Copyright notice(s):

Copyright 2016-2021 Andrew Svetlov and aio-libs team


License fulltext:
   Copyright 2016-2021 Andrew Svetlov and aio-libs team
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- multiprocess (BSD 3-Clause "New" or "Revised" License) [https://
github.com/uqfoundation/multiprocess] -----------
Copyright notice(s):

Copyright (c) 2008-2016 California Institute of Technology.
Copyright (c) 2016-2023 The Uncertainty Quantification Foundation.
All rights reserved.


Copyright (c) 2006-2008, R Oudkerk


License fulltext:
Copyright (c) 2008-2016 California Institute of Technology.
Copyright (c) 2016-2023 The Uncertainty Quantification Foundation.
All rights reserved.
This software forks the python package "multiprocessing". Licence and
copyright information for multiprocessing can be found in "COPYING.txt".
This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met::
    - Redistribution of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    - Redistribution in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentations and/or other materials provided with the distribution.
    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- numpy (BSD 3-Clause "New" or "Revised" License) [https://
github.com/numpy/numpy] -----------
Copyright notice(s):


Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.
```

```
Copyright (c) 2019 Kevin Sheppard. All rights reserved.


Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.


Copyright (c) 2005-2017, NumPy Developers. All rights reserved.


Copyright 2010-2012, D. E. Shaw Research.
All rights reserved.


Copyright (c) 2008 Ian Bicking and Contributors


Copyright (c) 2018 Melissa E. O'Neill


Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant


Copyright (C) 2010 The Android Open Source Project



License fulltext:
Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- pandas (BSD 3-Clause License) [https://github.com/pandas-dev/
pandas] -----------
Copyright notice(s):

Copyright 2008-2022, the pandas development team.
```

```
Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData#
‹→Development Team
All rights reserved.
Copyright (c) 2011-2021, Open source contributors.



License fulltext:
Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.
Copyright (c) 2011-2023, Open source contributors.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- pyarrow (Apache License 2.0) [https://github.com/apache/arrow/
tree/master/python/pyarrow] -----------
Copyright notice(s):

Copyright (c) 2019-2022 Contention
Copyright (c) 2019-2022 Burnett01


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------------------------------------------------------
src/arrow/util (some portions): Apache 2.0, and 3-clause BSD
Some portions of this module are derived from code in the Chromium project,
copyright (c) Google inc and (c) The Chromium Authors and licensed under the
Apache 2.0 License or the under the 3-clause BSD license:
  Copyright (c) 2013 The Chromium Authors. All rights reserved.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
     * Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
     * Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
This project includes code from Daniel Lemire's FrameOfReference project.
https://github.com/lemire/FrameOfReference/
blob/6ccaf9e97160f9a3b299e23a8ef739e711ef0c71/src/bpacking.cpp
https://github.com/lemire/FrameOfReference/
blob/146948b6058a976bc7767262ad3a2ce201486b93/scripts/turbopacking64.py
Copyright: 2013 Daniel Lemire
Home page: http://lemire.me/en/
Project page: https://github.com/lemire/FrameOfReference
```

```
License: Apache License Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0
--------------------------------------------------------------------------------
This project includes code from the TensorFlow project
Copyright 2015 The TensorFlow Authors. All Rights Reserved.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
This project includes code from the NumPy project.
https://github.com/numpy/numpy/blob/
e1f191c46f2eebd6cb892a4bfe14d9dd43a06c4e/numpy/core/src/multiarray/
multiarraymodule.c#L2910
https://github.com/numpy/numpy/
blob/68fd82271b9ea5a9e50d4e761061dfcca851382a/numpy/core/src/multiarray/
datetime.c
Copyright (c) 2005-2017, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
This project includes code from the Boost project
Boost Software License - Version 1.0 - August 17th, 2003
Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:
The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
This project includes code from the FlatBuffers project
Copyright 2014 Google Inc.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
This project includes code from the tslib project
Copyright 2015 Microsoft Corporation. All rights reserved.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
This project includes code from the jemalloc project
https://github.com/jemalloc/jemalloc
Copyright (C) 2002-2017 Jason Evans <jasone@canonware.com>.
All rights reserved.
Copyright (C) 2007-2012 Mozilla Foundation.  All rights reserved.
Copyright (C) 2009-2017 Facebook, Inc.  All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice(s),
   this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
 notice(s),
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER(S) ``AS IS'' AND ANY
 EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO
EVENT SHALL THE COPYRIGHT HOLDER(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
 OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
This project includes code from the Go project, BSD 3-clause license +
 PATENTS
weak patent termination clause
(https://github.com/golang/go/blob/master/PATENTS).
Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
This project includes code from the hs2client
https://github.com/cloudera/hs2client
Copyright 2016 Cloudera Inc.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
The script ci/scripts/util_wait_for_it.sh has the following license
Copyright (c) 2016 Giles Hall
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
The script r/configure has the following license (MIT)
Copyright (c) 2017, Jeroen Ooms and Jim Hester
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
cpp/src/arrow/util/logging.cc, cpp/src/arrow/util/logging.h and
cpp/src/arrow/util/logging-test.cc are adapted from
Ray Project (https://github.com/ray-project/ray) (Apache 2.0).
Copyright (c) 2016 Ray Project (https://github.com/ray-project/ray)
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
The files cpp/src/arrow/vendored/datetime/date.h, cpp/src/arrow/vendored/
datetime/tz.h,
cpp/src/arrow/vendored/datetime/tz_private.h, cpp/src/arrow/vendored/
datetime/ios.h,
cpp/src/arrow/vendored/datetime/ios.mm,
cpp/src/arrow/vendored/datetime/tz.cpp are adapted from
Howard Hinnant's date library (https://github.com/HowardHinnant/date)
It is licensed under MIT license.
The MIT License (MIT)
Copyright (c) 2015, 2016, 2017 Howard Hinnant
Copyright (c) 2016 Adrian Colomitchi
Copyright (c) 2017 Florian Dang
Copyright (c) 2017 Paul Thompson
Copyright (c) 2018 Tomasz Kamiński
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
The file cpp/src/arrow/util/utf8.h includes code adapted from the page
  https://bjoern.hoehrmann.de/utf-8/decoder/dfa/
with the following license (MIT)
Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/xxhash/ have the following license
(BSD 2-Clause License)
xxHash Library
Copyright (c) 2012-2014, Yann Collet
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
You can contact the author at :
```

```
- xxHash homepage: http://www.xxhash.com
- xxHash source repository : https://github.com/Cyan4973/xxHash
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/double-conversion/ have the following
 license
(BSD 3-Clause License)
Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/uriparser/ have the following license
(BSD 3-Clause License)
uriparser - RFC 3986 URI parsing library
Copyright (C) 2007, Weijia Song <songweijia@gmail.com>
Copyright (C) 2007, Sebastian Pipping <sebastian@pipping.org>
All rights reserved.
Redistribution  and use in source and binary forms, with or without
modification,  are permitted provided that the following conditions
are met:
    * Redistributions   of   source   code   must   retain   the   above
      copyright  notice, this list of conditions and the  following
      disclaimer.
    * Redistributions  in  binary  form must  reproduce  the  above
      copyright  notice, this list of conditions and the  following
      disclaimer   in  the  documentation  and/or  other  materials
      provided with the distribution.
    * Neither  the name of the <ORGANIZATION> nor the names of  its
      contributors  may  be  used to endorse  or  promote  products
      derived  from  this software without specific  prior  written
      permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS  IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT  NOT
LIMITED  TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND  FITNESS
FOR  A  PARTICULAR  PURPOSE ARE DISCLAIMED. IN NO EVENT  SHALL  THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,    SPECIAL,   EXEMPLARY,   OR   CONSEQUENTIAL   DAMAGES
(INCLUDING,  BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES;  LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT  LIABILITY,  OR  TORT (INCLUDING  NEGLIGENCE  OR  OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
```

```
The files under dev/tasks/conda-recipes have the following license
BSD 3-clause license
Copyright (c) 2015-2018, conda-forge
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/utfcpp/ have the following license
Copyright 2006-2018 Nemanja Trifunovic
Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:
The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
This project includes code from Apache Kudu.
 * cpp/cmake_modules/CompilerInfo.cmake is based on Kudu's cmake_modules/
CompilerInfo.cmake
Copyright: 2016 The Apache Software Foundation.
Home page: https://kudu.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0
--------------------------------------------------------------------------------
This project includes code from Apache Impala (incubating), formerly
Impala. The Impala code and rights were donated to the ASF as part of the
```

```
Incubator process after the initial code imports into Apache Parquet.
Copyright: 2012 Cloudera, Inc.
Copyright: 2016 The Apache Software Foundation.
Home page: http://impala.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0
--------------------------------------------------------------------------------
This project includes code from Apache Aurora.
* dev/release/{release,changelog,release-candidate} are based on the scripts
 from
  Apache Aurora
Copyright: 2016 The Apache Software Foundation.
Home page: https://aurora.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0
--------------------------------------------------------------------------------
This project includes code from the Google styleguide.
* cpp/build-support/cpplint.py is based on the scripts from the Google
 styleguide.
Copyright: 2009 Google Inc. All rights reserved.
Homepage: https://github.com/google/styleguide
License: 3-clause BSD
--------------------------------------------------------------------------------
This project includes code from Snappy.
* cpp/cmake_modules/{SnappyCMakeLists.txt,SnappyConfig.h} are based on code
  from Google's Snappy project.
Copyright: 2009 Google Inc. All rights reserved.
Homepage: https://github.com/google/snappy
License: 3-clause BSD
--------------------------------------------------------------------------------
This project includes code from the manylinux project.
* python/manylinux1/scripts/{build_python.sh,python-tag-abi-tag.py,
  requirements.txt} are based on code from the manylinux project.
Copyright: 2016 manylinux
Homepage: https://github.com/pypa/manylinux
License: The MIT License (MIT)
--------------------------------------------------------------------------------
This project includes code from the cymove project:
* python/pyarrow/includes/common.pxd includes code from the cymove project
The MIT License (MIT)
Copyright (c) 2019 Omer Ozarslan
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE
OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
The projects includes code from the Ursabot project under the dev/archery
directory.
License: BSD 2-Clause
Copyright 2019 RStudio, Inc.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
This project include code from mingw-w64.
* cpp/src/arrow/util/cpu-info.cc has a polyfill for mingw-w64 < 5
Copyright (c) 2009 - 2013 by the mingw-w64 project
Homepage: https://mingw-w64.org
License: Zope Public License (ZPL) Version 2.1.
---------------------------------------------------------------------------------
This project include code from Google's Asylo project.
* cpp/src/arrow/result.h is based on status_or.h
Copyright (c)  Copyright 2017 Asylo authors
Homepage: https://asylo.dev/
License: Apache 2.0
--------------------------------------------------------------------------------
This project includes code from Google's protobuf project
* cpp/src/arrow/result.h ARROW_ASSIGN_OR_RAISE is based off ASSIGN_OR_RETURN
* cpp/src/arrow/util/bit_stream_utils.h contains code from
 wire_format_lite.h
Copyright 2008 Google Inc.  All rights reserved.
Homepage: https://developers.google.com/protocol-buffers/
License:
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Code generated by the Protocol Buffer compiler is owned by the owner
```

```
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
--------------------------------------------------------------------------------
3rdparty dependency LLVM is statically linked in certain binary
 distributions.
Additionally some sections of source code have been derived from sources in
 LLVM
and have been clearly labeled as such. LLVM has the following license:
================================================================================
The LLVM Project is under the Apache License v2.0 with LLVM Exceptions:
================================================================================
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
    1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
    2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
    3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
    4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
    5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.
    6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
    7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
    8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
    9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
    END OF TERMS AND CONDITIONS
    APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
    Copyright [yyyy] [name of copyright owner]
    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.
---- LLVM Exceptions to the Apache 2.0 License ----
As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into an Object form of such source code, you
may redistribute such embedded portions in such Object form without
 complying
with the conditions of Sections 4(a), 4(b) and 4(d) of the License.
In addition, if you combine or link compiled forms of this Software with
software that is licensed under the GPLv2 ("Combined Software") and if a
```

```
court of competent jurisdiction determines that the patent provision
 (Section
3), the indemnity provision (Section 9) or other Section of the License
conflicts with the conditions of the GPLv2, you may retroactively and
prospectively choose to deem waived or otherwise exclude such Section(s) of
the License, but only in their entirety and only with respect to the
 Combined
Software.
==============================================================================
Software from third parties included in the LLVM Project:
==============================================================================
The LLVM Project contains third party software which is under different
 license
terms. All such code will be identified clearly using at least one of two
mechanisms:
1) It will be in a separate directory tree with its own `LICENSE.txt` or
   `LICENSE` file at the top containing the specific license and
 restrictions
   which apply to that software, or
2) It will contain specific license and restriction terms at the top of
 every
   file.
------------------------------------------------------------------------------
3rdparty dependency gRPC is statically linked in certain binary
distributions, like the python wheels. gRPC has the following license:
Copyright 2014 gRPC authors.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------------
3rdparty dependency Apache Thrift is statically linked in certain binary
distributions, like the python wheels. Apache Thrift has the following
 license:
Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------------
3rdparty dependency Apache ORC is statically linked in certain binary
distributions, like the python wheels. Apache ORC has the following license:
Apache ORC
Copyright 2013-2019 The Apache Software Foundation
This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).
This product includes software developed by Hewlett-Packard:
(c) Copyright [2014-2015] Hewlett-Packard Development Company, L.P
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
     http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
3rdparty dependency zstd is statically linked in certain binary
distributions, like the python wheels. ZSTD has the following license:
BSD License
For Zstandard software
Copyright (c) 2016-present, Facebook, Inc. All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
3rdparty dependency lz4 is statically linked in certain binary
distributions, like the python wheels. lz4 has the following license:
LZ4 Library
Copyright (c) 2011-2016, Yann Collet
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
```

```
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
3rdparty dependency Brotli is statically linked in certain binary
distributions, like the python wheels. Brotli has the following license:
Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
3rdparty dependency rapidjson is statically linked in certain binary
distributions, like the python wheels. rapidjson and its dependencies have
 the
following licenses:
Tencent is pleased to support the open source community by making RapidJSON
available.
Copyright (C) 2015 THL A29 Limited, a Tencent company, and Milo Yip.
All rights reserved.
If you have downloaded a copy of the RapidJSON binary from Tencent, please
 note
that the RapidJSON binary is licensed under the MIT License.
If you have downloaded a copy of the RapidJSON source code from Tencent,
 please
note that RapidJSON source code is licensed under the MIT License, except
 for
the third-party components listed below which are subject to different
 license
terms.  Your integration of RapidJSON into your own projects may require
compliance with the MIT License, as well as the other licenses applicable to
the third-party components included within RapidJSON. To avoid the
 problematic
JSON license in your own projects, it's sufficient to exclude the
bin/jsonchecker/ directory, as it's the only code under the JSON license.
A copy of the MIT License is included in this file.
Other dependencies and licenses:
    Open Source Software Licensed Under the BSD License:
    --------------------------------------------------------------------
    The msinttypes r29
    Copyright (c) 2006-2013 Alexander Chemeris
    All rights reserved.
    Redistribution and use in source and binary forms, with or without
```

```
   modification, are permitted provided that the following conditions are
 met:
   * Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above copyright
 notice,
   this list of conditions and the following disclaimer in the
 documentation
   and/or other materials provided with the distribution.
   * Neither the name of  copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.
   THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 ANY
   EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
   DISCLAIMED. IN NO EVENT SHALL THE REGENTS AND CONTRIBUTORS BE LIABLE FOR
   ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
   DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR
   SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER
   CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
   LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
   OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
   DAMAGE.
   Terms of the MIT License:
   ---------------------------------------------------------------------
   Permission is hereby granted, free of charge, to any person obtaining a
   copy of this software and associated documentation files (the
 "Software"),
   to deal in the Software without restriction, including without
 limitation
   the rights to use, copy, modify, merge, publish, distribute, sublicense,
   and/or sell copies of the Software, and to permit persons to whom the
   Software is furnished to do so, subject to the following conditions:
   The above copyright notice and this permission notice shall be included
   in all copies or substantial portions of the Software.
   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
   IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
   FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
   AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
   LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
   FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
   DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
3rdparty dependency snappy is statically linked in certain binary
distributions, like the python wheels. snappy has the following license:
Copyright 2011, Google Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
```

```
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Google Inc. nor the names of its contributors may
 be
      used to endorse or promote products derived from this software without
      specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
===
Some of the benchmark data in testdata/ is licensed differently:
 - fireworks.jpeg is Copyright 2013 Steinar H. Gunderson, and
   is licensed under the Creative Commons Attribution 3.0 license
   (CC-BY-3.0). See https://creativecommons.org/licenses/by/3.0/
   for more information.
 - kppkn.gtb is taken from the Gaviota chess tablebase set, and
   is licensed under the MIT License. See
   https://sites.google.com/site/gaviotachessengine/Home/endgame-
tablebases-1
   for more information.
 - paper-100k.pdf is an excerpt (bytes 92160 to 194560) from the paper
   “Combinatorial Modeling of Chromatin Features Quantitatively Predicts DNA
   Replication Timing in _Drosophila_” by Federico Comoglio and Renato Paro,
   which is licensed under the CC-BY license. See
   http://www.ploscompbiol.org/static/license for more ifnormation.
 - alice29.txt, asyoulik.txt, plrabn12.txt and lcet10.txt are from Project
   Gutenberg. The first three have expired copyrights and are in the public
   domain; the latter does not have expired copyright, but is still in the
   public domain according to the license information
   (http://www.gutenberg.org/ebooks/53).
-------------------------------------------------------------------------------
3rdparty dependency gflags is statically linked in certain binary
distributions, like the python wheels. gflags has the following license:
Copyright (c) 2006, Google Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
3rdparty dependency glog is statically linked in certain binary
distributions, like the python wheels. glog has the following license:
Copyright (c) 2008, Google Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
A function gettimeofday in utilities.cc is based on
http://www.google.com/codesearch/p?hl=en#dR3YEbitojA/
COPYING&q=GetSystemTimeAsFileTime%20license:bsd
The license of this code is:
Copyright (c) 2003-2008, Jouni Malinen <j@w1.fi> and contributors
All Rights Reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name(s) of the above-listed copyright holder(s) nor the
   names of its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
3rdparty dependency re2 is statically linked in certain binary
distributions, like the python wheels. re2 has the following license:
Copyright (c) 2009 The RE2 Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its contributors
      may be used to endorse or promote products derived from this
      software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
3rdparty dependency c-ares is statically linked in certain binary
distributions, like the python wheels. c-ares has the following license:
# c-ares license
Copyright (c) 2007 - 2018, Daniel Stenberg with many contributors, see
 AUTHORS
file.
Copyright 1998 by the Massachusetts Institute of Technology.
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
 that
the above copyright notice appear in all copies and that both that copyright
notice and this permission notice appear in supporting documentation, and
 that
the name of M.I.T. not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.
M.I.T. makes no representations about the suitability of this software for
 any
purpose.  It is provided "as is" without express or implied warranty.
--------------------------------------------------------------------------------
3rdparty dependency zlib is redistributed as a dynamically linked shared
library in certain binary distributions, like the python wheels. In the
 future
this will likely change to static linkage. zlib has the following license:
zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017
  Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.
  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:
  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.
  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu
```

```
--------------------------------------------------------------------------------
3rdparty dependency openssl is redistributed as a dynamically linked shared
library in certain binary distributions, like the python wheels. openssl
preceding version 3 has the following license:
  LICENSE ISSUES
  ==============
  The OpenSSL toolkit stays under a double license, i.e. both the conditions
 of
  the OpenSSL License and the original SSLeay license apply to the toolkit.
  See below for the actual license texts.
  OpenSSL License
  ---------------
/* ====================================================================
 * Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
 * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 * ====================================================================
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com).  This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 *
```

```
 */
 Original SSLeay License
 -----------------------
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to.  The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given
 attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    "This product includes cryptographic software written by
 *     Eric Young (eay@cryptsoft.com)"
 *    The word 'cryptographic' can be left out if the rouines from the
 library
 *    being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof)
 from
 *    the apps directory (application code) you must include an
 acknowledgement:
 *    "This product includes software written by Tim Hudson
 (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
 * The licence and distribution terms for any publically available version
 or
```

```
 * derivative of this code cannot be changed.  i.e. this code cannot simply
 be
 * copied and put under another distribution licence
 * [including the GNU Public Licence.]
 */
--------------------------------------------------------------------------------
This project includes code from the rtools-backports project.
* ci/scripts/PKGBUILD and ci/scripts/r_windows_build.sh are based on code
  from the rtools-backports project.
Copyright: Copyright (c) 2013 - 2019, Алексей and Jeroen Ooms.
All rights reserved.
Homepage: https://github.com/r-windows/rtools-backports
License: 3-clause BSD
--------------------------------------------------------------------------------
Some code from pandas has been adapted for the pyarrow codebase. pandas is
available under the 3-clause BSD license, which follows:
pandas license
==============
Copyright (c) 2011-2012, Lambda Foundry, Inc. and PyData Development Team
All rights reserved.
Copyright (c) 2008-2011 AQR Capital Management, LLC
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the copyright holder nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
Some bits from DyND, in particular aspects of the build system, have been
adapted from libdynd and dynd-python under the terms of the BSD 2-clause
license
The BSD 2-Clause License
    Copyright (C) 2011-12, Dynamic NDArray Developers
    All rights reserved.
    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:
        * Redistributions of source code must retain the above copyright
           notice, this list of conditions and the following disclaimer.
        * Redistributions in binary form must reproduce the above
           copyright notice, this list of conditions and the following
           disclaimer in the documentation and/or other materials provided
           with the distribution.
    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Dynamic NDArray Developers list:
 * Mark Wiebe
 * Continuum Analytics
--------------------------------------------------------------------------------
Some source code from Ibis (https://github.com/cloudera/ibis) has been
 adapted
for PyArrow. Ibis is released under the Apache License, Version 2.0.
--------------------------------------------------------------------------------
dev/tasks/homebrew-formulae/apache-arrow.rb has the following license:
BSD 2-Clause License
Copyright (c) 2009-present, Homebrew contributors
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------
cpp/src/arrow/vendored/base64.cpp has the following license
ZLIB License
Copyright (C) 2004-2017 René Nyffenegger
This source code is provided 'as-is', without any express or implied
warranty. In no event will the author be held liable for any damages arising
from the use of this software.
Permission is granted to anyone to use this software for any purpose,
 including
commercial applications, and to alter it and redistribute it freely, subject
 to
the following restrictions:
1. The origin of this source code must not be misrepresented; you must not
   claim that you wrote the original source code. If you use this source
 code
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original source code.
3. This notice may not be removed or altered from any source distribution.
René Nyffenegger rene.nyffenegger@adp-gmbh.ch
--------------------------------------------------------------------------------
This project includes code from Folly.
```

```
 * cpp/src/arrow/vendored/ProducerConsumerQueue.h
is based on Folly's
 * folly/Portability.h
 * folly/lang/Align.h
 * folly/ProducerConsumerQueue.h
Copyright: Copyright (c) Facebook, Inc. and its affiliates.
Home page: https://github.com/facebook/folly
License: http://www.apache.org/licenses/LICENSE-2.0
--------------------------------------------------------------------------------
The file cpp/src/arrow/vendored/musl/strptime.c has the following license
Copyright © 2005-2020 Rich Felker, et al.
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
The file cpp/cmake_modules/BuildUtils.cmake contains code from
https://gist.github.com/cristianadam/ef920342939a89fae3e8a85ca9459b49
which is made available under the MIT license
Copyright (c) 2019 Cristian Adam
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/portable-snippets/ contain code from
https://github.com/nemequ/portable-snippets
and have the following copyright notice:
Each source file contains a preamble explaining the license situation
for that file, which takes priority over this file.  With the
exception of some code pulled in from other repositories (such as
µnit, an MIT-licensed project which is used for testing), the code is
public domain, released using the CC0 1.0 Universal dedication (*).
(*) https://creativecommons.org/publicdomain/zero/1.0/legalcode
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/fast_float/ contain code from
https://github.com/lemire/fast_float
```

```
which is made available under the Apache License 2.0.
--------------------------------------------------------------------------------
The file python/pyarrow/vendored/docscrape.py contains code from
https://github.com/numpy/numpydoc/
which is made available under the BSD 2-clause license.
--------------------------------------------------------------------------------
The file python/pyarrow/vendored/version.py contains code from
https://github.com/pypa/packaging/
which is made available under both the Apache license v2.0 and the
BSD 2-clause license.
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/pcg contain code from
https://github.com/imneme/pcg-cpp
and have the following copyright notice:
Copyright 2014-2019 Melissa O'Neill <oneill@pcg-random.org>,
                    and the PCG Project contributors.
SPDX-License-Identifier: (Apache-2.0 OR MIT)
Licensed under the Apache License, Version 2.0 (provided in
LICENSE-APACHE.txt and at http://www.apache.org/licenses/LICENSE-2.0)
or under the MIT license (provided in LICENSE-MIT.txt and at
http://opensource.org/licenses/MIT), at your option. This file may not
be copied, modified, or distributed except according to those terms.
Distributed on an "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, either
express or implied.  See your chosen license for details.
--------------------------------------------------------------------------------
r/R/dplyr-count-tally.R (some portions)
Some portions of this file are derived from code from
https://github.com/tidyverse/dplyr/
which is made available under the MIT license
Copyright (c) 2013-2019 RStudio and others.
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the “Software”), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
The file src/arrow/util/io_util.cc contains code from the CPython project
which is made available under the Python Software Foundation License Version
 2.
--------------------------------------------------------------------------------
3rdparty dependency opentelemetry-cpp is statically linked in certain binary
distributions. opentelemetry-cpp is made available under the Apache License
 2.0.
Copyright The OpenTelemetry Authors
SPDX-License-Identifier: Apache-2.0
--------------------------------------------------------------------------------
ci/conan/ is based on code from Conan Package and Dependency Manager.
Copyright (c) 2019 Conan.io
Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
3rdparty dependency UCX is redistributed as a dynamically linked shared
library in certain binary distributions. UCX has the following license:
Copyright (c) 2014-2015      UT-Battelle, LLC. All rights reserved.
Copyright (C) 2014-2020      Mellanox Technologies Ltd. All rights reserved.
Copyright (C) 2014-2015      The University of Houston System. All rights
 reserved.
Copyright (C) 2015           The University of Tennessee and The University
                             of Tennessee Research Foundation. All rights
 reserved.
Copyright (C) 2016-2020      ARM Ltd. All rights reserved.
Copyright (c) 2016           Los Alamos National Security, LLC. All rights
 reserved.
Copyright (C) 2016-2020      Advanced Micro Devices, Inc.  All rights
 reserved.
Copyright (C) 2019           UChicago Argonne, LLC.  All rights reserved.
Copyright (c) 2018-2020      NVIDIA CORPORATION. All rights reserved.
Copyright (C) 2020           Huawei Technologies Co., Ltd. All rights
 reserved.
Copyright (C) 2016-2020      Stony Brook University. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
The file dev/tasks/r/github.packages.yml contains code from
https://github.com/ursa-labs/arrow-r-nightly
which is made available under the Apache License 2.0.
```

```
--------------------------------------------------------------------------------
.github/actions/sync-nightlies/action.yml  (some portions)
Some portions of this file are derived from code from
https://github.com/JoshPiper/rsync-docker
which is made available under the MIT license
Copyright (c) 2020 Joshua Piper
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
.github/actions/sync-nightlies/action.yml (some portions)
Some portions of this file are derived from code from
https://github.com/burnett01/rsync-deployments
which is made available under the MIT license
Copyright (c) 2019-2022 Contention
Copyright (c) 2019-2022 Burnett01
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- python-dateutil (Apache License 2.0) [https://github.com/
dateutil/dateutil] -----------
Copyright notice(s):
Copyright 2017- Paul Ganssle <paul@ganssle.io>

Copyright 2017- dateutil contributors



License fulltext:
Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.
Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The above BSD License Applies to all code, even that also covered by Apache
 2.0.

----------- pytz (MIT License) [https://github.com/stub42/pytz] -----------
Copyright notice(s):
Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>
Copyright 1985, 1987, 1988 The Regents of the University of California.



License fulltext:
Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
```

```
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

----------- pyyaml (MIT License) [https://github.com/yaml/pyyaml]
 -----------
Copyright notice(s):
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov



License fulltext:
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- responses (Apache License 2.0) [https://github.com/getsentry/
responses] -----------
Copyright notice(s):

Copyright 2015 David Cramer


License fulltext:
                              Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.
   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.
   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
```

```
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.
   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.
   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.
   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.
   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).
   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.
   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."
   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:
```

```
    (a) You must give any other recipients of the Work or
        Derivative Works a copy of this License; and
    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and
    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and
    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
```

```
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.
Copyright 2015 David Cramer
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------- six (MIT License) [https://github.com/benjaminp/six] -----------
Copyright notice(s):

Copyright (c) 2010-2020 Benjamin Peterson



License fulltext:
Copyright (c) 2010-2020 Benjamin Peterson
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------- tqdm (MIT License) [https://github.com/tqdm/tqdm] -----------
Copyright notice(s):
```

```
© Casper da Costa-Luis @casperdcl 2015-2022


Copyright (c) 2013 noamraph



License fulltext:
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).
Exceptions or notable authors are listed below
in reverse chronological order:
* files: *
  MPL-2.0 2015-2023 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.
[PR #96]: https://github.com/tqdm/tqdm/pull/96
Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------
This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.
MIT License (MIT)
-----------------
Copyright (c) 2013 noamraph
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------- tzdata (Apache License 2.0) [https://github.com/python/tzdata]
 -----------
Copyright notice(s):

Copyright (c) 2020, Paul Ganssle (Google)



License fulltext:
Apache Software License 2.0
```

```
Copyright (c) 2020, Paul Ganssle (Google)
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------- xxhash (BSD 2-Clause "Simplified" License) [https://github.com/
ifduyue/python-xxhash] -----------
Copyright notice(s):

Copyright (c) 2014-2020, Yue Du


License fulltext:
Copyright (c) 2014-2020, Yue Du
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- yarl (Apache License 2.0) [https://github.com/aio-libs/yarl/]
 -----------
Copyright notice(s):

Copyright 2016-2021, Andrew Svetlov and aio-libs team


License fulltext:
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
  2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
  3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
```

```
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Hugging Face / Component(s): datasets 2.17.1

```
===================== Package: datasets ==========================
Name: datasets
Source code URL: https://github.com/huggingface/datasets
License: Apache License 2.0

===================== Dependencies ==========================
aiohttp (Apache License 2.0) [https://github.com/aio-libs/aiohttp]
aiosignal (Apache License 2.0) [https://github.com/aio-libs/aiosignal]
async-timeout (Apache License 2.0) [https://github.com/aio-libs/async-
timeout]
attrs (MIT License) [https://github.com/python-attrs/attrs]
charset-normalizer (MIT License) [https://github.com/Ousret/
charset_normalizer]
dill (BSD 3-Clause "New" or "Revised" License) [https://github.com/
uqfoundation/dill]
filelock (The Unlicense) [https://github.com/tox-dev/py-filelock]
frozenlist (Apache License 2.0) [https://github.com/aio-libs/frozenlist]
fsspec (BSD 3-Clause "New" or "Revised" License) [https://github.com/fsspec/
filesystem_spec]
huggingface-hub (Apache License 2.0) [https://github.com/huggingface/
huggingface_hub]
multidict (Apache License 2.0) [https://github.com/aio-libs/multidict]
multiprocess (BSD 3-Clause "New" or "Revised" License) [https://github.com/
uqfoundation/multiprocess]
numpy (BSD 3-Clause "New" or "Revised" License) [https://github.com/numpy/
numpy]
```

```
pandas (BSD 3-Clause License) [https://github.com/pandas-dev/pandas]
pyarrow (Apache License 2.0) [https://github.com/apache/arrow/tree/master/
python/pyarrow]
python-dateutil (Apache License 2.0) [https://github.com/dateutil/dateutil]
pytz (MIT License) [https://github.com/stub42/pytz]
pyyaml (MIT License) [https://github.com/yaml/pyyaml]
responses (Apache License 2.0) [https://github.com/getsentry/responses]
six (MIT License) [https://github.com/benjaminp/six]
tqdm (MIT License) [https://github.com/tqdm/tqdm]
tzdata (Apache License 2.0) [https://github.com/python/tzdata]
xxhash (BSD 2-Clause "Simplified" License) [https://github.com/ifduyue/
python-xxhash]
yarl (Apache License 2.0) [https://github.com/aio-libs/yarl/]

===================== Licenses ==========================

----------- datasets (Apache License 2.0) [https://github.com/huggingface/
datasets] -----------
Copyright notice(s):

Copyright Google Inc.
Copyright HuggingFace Inc.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
```

```
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.


----------- aiohttp (Apache License 2.0) [https://github.com/aio-libs/
aiohttp] -----------
Copyright notice(s):

Copyright aio-libs contributors.


License fulltext:
   Copyright aio-libs contributors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- aiosignal (Apache License 2.0) [https://github.com/aio-libs/
aiosignal] -----------
Copyright notice(s):

Copyright 2013-2019 Nikolay Kim and Andrew Svetlov


License fulltext:
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
```

```
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "{}"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
    identification within third-party archives.
Copyright 2013-2019 Nikolay Kim and Andrew Svetlov
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- async-timeout (Apache License 2.0) [https://github.com/aio-libs/
async-timeout] -----------
Copyright notice(s):

Copyright 2016-2020 aio-libs collaboration.


License fulltext:
Copyright 2016-2020 aio-libs collaboration.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
   http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------- attrs (MIT License) [https://github.com/python-attrs/attrs]
 -----------
Copyright notice(s):

Copyright (c) 2015 Hynek Schlawack and the attrs contributors



License fulltext:
The MIT License (MIT)
Copyright (c) 2015 Hynek Schlawack and the attrs contributors
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- charset-normalizer (MIT License) [https://github.com/Ousret/
charset_normalizer] -----------
Copyright notice(s):
```

```
Copyright (c) 2019 TAHRI Ahmed R.


License fulltext:
MIT License
Copyright (c) 2019 TAHRI Ahmed R.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- dill (BSD 3-Clause "New" or "Revised" License) [https://
github.com/uqfoundation/dill] -----------
Copyright notice(s):

Copyright (c) 2004-2016 California Institute of Technology.
Copyright (c) 2016-2023 The Uncertainty Quantification Foundation.
All rights reserved.


License fulltext:
Copyright (c) 2004-2016 California Institute of Technology.
Copyright (c) 2016-2023 The Uncertainty Quantification Foundation.
All rights reserved.
This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met::
    - Redistribution of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    - Redistribution in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentations and/or other materials provided with the distribution.
    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
----------- filelock (The Unlicense) [https://github.com/tox-dev/py-
filelock] -----------
Copyright notice(s):

Copyright © 2014-2022, tox-dev


License fulltext:
This is free and unencumbered software released into the public domain.
Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.
In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
For more information, please refer to <http://unlicense.org>

----------- frozenlist (Apache License 2.0) [https://github.com/aio-libs/
frozenlist] -----------
Copyright notice(s):

Copyright 2013-2019 Nikolay Kim and Andrew Svetlov


License fulltext:
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
  2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
  3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
  4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
```

```
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
```

```
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2013-2019 Nikolay Kim and Andrew Svetlov
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- fsspec (BSD 3-Clause "New" or "Revised" License) [https://
github.com/fsspec/filesystem_spec] -----------
Copyright notice(s):
Copyright (c) 2018, Martin Durant

All rights reserved.



License fulltext:
BSD 3-Clause License
Copyright (c) 2018, Martin Durant
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- huggingface-hub (Apache License 2.0) [https://github.com/
huggingface/huggingface_hub] -----------
Copyright notice(s):

Copyright 2022-present, the HuggingFace Inc. team.


License fulltext:
```

```
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- multidict (Apache License 2.0) [https://github.com/aio-libs/
multidict] -----------
Copyright notice(s):

Copyright 2016-2021 Andrew Svetlov and aio-libs team


License fulltext:
   Copyright 2016-2021 Andrew Svetlov and aio-libs team
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
----------- multiprocess (BSD 3-Clause "New" or "Revised" License) [https://
github.com/uqfoundation/multiprocess] -----------
Copyright notice(s):

Copyright (c) 2008-2016 California Institute of Technology.
Copyright (c) 2016-2023 The Uncertainty Quantification Foundation.
All rights reserved.


Copyright (c) 2006-2008, R Oudkerk


License fulltext:
Copyright (c) 2008-2016 California Institute of Technology.
Copyright (c) 2016-2023 The Uncertainty Quantification Foundation.
All rights reserved.
This software forks the python package "multiprocessing". Licence and
copyright information for multiprocessing can be found in "COPYING.txt".
This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met::
    - Redistribution of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    - Redistribution in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentations and/or other materials provided with the distribution.
    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- numpy (BSD 3-Clause "New" or "Revised" License) [https://
github.com/numpy/numpy] -----------
Copyright notice(s):


Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.


Copyright (c) 2019 Kevin Sheppard. All rights reserved.


Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.
```

```
Copyright (c) 2005-2017, NumPy Developers. All rights reserved.


Copyright 2010-2012, D. E. Shaw Research.
All rights reserved.


Copyright (c) 2008 Ian Bicking and Contributors


Copyright (c) 2018 Melissa E. O'Neill


Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant


Copyright (C) 2010 The Android Open Source Project



License fulltext:
Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- pandas (BSD 3-Clause License) [https://github.com/pandas-dev/
pandas] -----------
Copyright notice(s):

Copyright 2008-2022, the pandas development team.


Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData#
‹→Development Team
All rights reserved.
Copyright (c) 2011-2021, Open source contributors.
```

```
License fulltext:
Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.
Copyright (c) 2011-2023, Open source contributors.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- pyarrow (Apache License 2.0) [https://github.com/apache/arrow/
tree/master/python/pyarrow] -----------
Copyright notice(s):

Copyright (c) 2019-2022 Contention
Copyright (c) 2019-2022 Burnett01


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------------------------------------------------------
src/arrow/util (some portions): Apache 2.0, and 3-clause BSD
Some portions of this module are derived from code in the Chromium project,
copyright (c) Google inc and (c) The Chromium Authors and licensed under the
Apache 2.0 License or the under the 3-clause BSD license:
  Copyright (c) 2013 The Chromium Authors. All rights reserved.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
     * Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
     * Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
This project includes code from Daniel Lemire's FrameOfReference project.
https://github.com/lemire/FrameOfReference/
blob/6ccaf9e97160f9a3b299e23a8ef739e711ef0c71/src/bpacking.cpp
https://github.com/lemire/FrameOfReference/
blob/146948b6058a976bc7767262ad3a2ce201486b93/scripts/turbopacking64.py
Copyright: 2013 Daniel Lemire
Home page: http://lemire.me/en/
Project page: https://github.com/lemire/FrameOfReference
License: Apache License Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0
--------------------------------------------------------------------------------
This project includes code from the TensorFlow project
Copyright 2015 The TensorFlow Authors. All Rights Reserved.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
This project includes code from the NumPy project.
https://github.com/numpy/numpy/blob/
e1f191c46f2eebd6cb892a4bfe14d9dd43a06c4e/numpy/core/src/multiarray/
multiarraymodule.c#L2910
https://github.com/numpy/numpy/
blob/68fd82271b9ea5a9e50d4e761061dfcca851382a/numpy/core/src/multiarray/
datetime.c
Copyright (c) 2005-2017, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
This project includes code from the Boost project
Boost Software License - Version 1.0 - August 17th, 2003
Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:
The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
This project includes code from the FlatBuffers project
Copyright 2014 Google Inc.
```

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
This project includes code from the tslib project
Copyright 2015 Microsoft Corporation. All rights reserved.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
This project includes code from the jemalloc project
https://github.com/jemalloc/jemalloc
Copyright (C) 2002-2017 Jason Evans <jasone@canonware.com>.
All rights reserved.
Copyright (C) 2007-2012 Mozilla Foundation.  All rights reserved.
Copyright (C) 2009-2017 Facebook, Inc.  All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice(s),
   this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
 notice(s),
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER(S) ``AS IS'' AND ANY
 EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO
EVENT SHALL THE COPYRIGHT HOLDER(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
 OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
This project includes code from the Go project, BSD 3-clause license +
 PATENTS
weak patent termination clause
(https://github.com/golang/go/blob/master/PATENTS).
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
```

```
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
This project includes code from the hs2client
https://github.com/cloudera/hs2client
Copyright 2016 Cloudera Inc.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
The script ci/scripts/util_wait_for_it.sh has the following license
Copyright (c) 2016 Giles Hall
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
The script r/configure has the following license (MIT)
Copyright (c) 2017, Jeroen Ooms and Jim Hester
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
```

```
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
cpp/src/arrow/util/logging.cc, cpp/src/arrow/util/logging.h and
cpp/src/arrow/util/logging-test.cc are adapted from
Ray Project (https://github.com/ray-project/ray) (Apache 2.0).
Copyright (c) 2016 Ray Project (https://github.com/ray-project/ray)
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
The files cpp/src/arrow/vendored/datetime/date.h, cpp/src/arrow/vendored/
datetime/tz.h,
cpp/src/arrow/vendored/datetime/tz_private.h, cpp/src/arrow/vendored/
datetime/ios.h,
cpp/src/arrow/vendored/datetime/ios.mm,
cpp/src/arrow/vendored/datetime/tz.cpp are adapted from
Howard Hinnant's date library (https://github.com/HowardHinnant/date)
It is licensed under MIT license.
The MIT License (MIT)
Copyright (c) 2015, 2016, 2017 Howard Hinnant
Copyright (c) 2016 Adrian Colomitchi
Copyright (c) 2017 Florian Dang
Copyright (c) 2017 Paul Thompson
Copyright (c) 2018 Tomasz Kamiński
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
```

```
The file cpp/src/arrow/util/utf8.h includes code adapted from the page
  https://bjoern.hoehrmann.de/utf-8/decoder/dfa/
with the following license (MIT)
Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/xxhash/ have the following license
(BSD 2-Clause License)
xxHash Library
Copyright (c) 2012-2014, Yann Collet
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
You can contact the author at :
- xxHash homepage: http://www.xxhash.com
- xxHash source repository : https://github.com/Cyan4973/xxHash
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/double-conversion/ have the following
 license
(BSD 3-Clause License)
Copyright 2006-2011, the V8 project authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/uriparser/ have the following license
(BSD 3-Clause License)
uriparser - RFC 3986 URI parsing library
Copyright (C) 2007, Weijia Song <songweijia@gmail.com>
Copyright (C) 2007, Sebastian Pipping <sebastian@pipping.org>
All rights reserved.
Redistribution  and use in source and binary forms, with or without
modification,  are permitted provided that the following conditions
are met:
    * Redistributions   of   source   code   must   retain   the   above
      copyright  notice, this list of conditions and the  following
      disclaimer.
    * Redistributions  in  binary  form must  reproduce  the  above
      copyright  notice, this list of conditions and the  following
      disclaimer   in  the  documentation  and/or  other  materials
      provided with the distribution.
    * Neither  the name of the <ORGANIZATION> nor the names of  its
      contributors  may  be  used to endorse  or  promote  products
      derived  from  this software without specific  prior  written
      permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS  IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT  NOT
LIMITED  TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND  FITNESS
FOR  A  PARTICULAR  PURPOSE ARE DISCLAIMED. IN NO EVENT  SHALL  THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,    SPECIAL,   EXEMPLARY,   OR   CONSEQUENTIAL   DAMAGES
(INCLUDING,  BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES;  LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT  LIABILITY,  OR  TORT (INCLUDING  NEGLIGENCE  OR  OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
The files under dev/tasks/conda-recipes have the following license
BSD 3-clause license
Copyright (c) 2015-2018, conda-forge
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/utfcpp/ have the following license
Copyright 2006-2018 Nemanja Trifunovic
Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:
The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
This project includes code from Apache Kudu.
 * cpp/cmake_modules/CompilerInfo.cmake is based on Kudu's cmake_modules/
CompilerInfo.cmake
Copyright: 2016 The Apache Software Foundation.
Home page: https://kudu.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0
--------------------------------------------------------------------------------
This project includes code from Apache Impala (incubating), formerly
Impala. The Impala code and rights were donated to the ASF as part of the
Incubator process after the initial code imports into Apache Parquet.
Copyright: 2012 Cloudera, Inc.
Copyright: 2016 The Apache Software Foundation.
Home page: http://impala.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0
--------------------------------------------------------------------------------
This project includes code from Apache Aurora.
```

```
* dev/release/{release,changelog,release-candidate} are based on the scripts
 from
  Apache Aurora
Copyright: 2016 The Apache Software Foundation.
Home page: https://aurora.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0
--------------------------------------------------------------------------------
This project includes code from the Google styleguide.
* cpp/build-support/cpplint.py is based on the scripts from the Google
 styleguide.
Copyright: 2009 Google Inc. All rights reserved.
Homepage: https://github.com/google/styleguide
License: 3-clause BSD
--------------------------------------------------------------------------------
This project includes code from Snappy.
* cpp/cmake_modules/{SnappyCMakeLists.txt,SnappyConfig.h} are based on code
  from Google's Snappy project.
Copyright: 2009 Google Inc. All rights reserved.
Homepage: https://github.com/google/snappy
License: 3-clause BSD
--------------------------------------------------------------------------------
This project includes code from the manylinux project.
* python/manylinux1/scripts/{build_python.sh,python-tag-abi-tag.py,
  requirements.txt} are based on code from the manylinux project.
Copyright: 2016 manylinux
Homepage: https://github.com/pypa/manylinux
License: The MIT License (MIT)
--------------------------------------------------------------------------------
This project includes code from the cymove project:
* python/pyarrow/includes/common.pxd includes code from the cymove project
The MIT License (MIT)
Copyright (c) 2019 Omer Ozarslan
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE
OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
The projects includes code from the Ursabot project under the dev/archery
directory.
License: BSD 2-Clause
Copyright 2019 RStudio, Inc.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
This project include code from mingw-w64.
* cpp/src/arrow/util/cpu-info.cc has a polyfill for mingw-w64 < 5
Copyright (c) 2009 - 2013 by the mingw-w64 project
Homepage: https://mingw-w64.org
License: Zope Public License (ZPL) Version 2.1.
---------------------------------------------------------------------------------
This project include code from Google's Asylo project.
* cpp/src/arrow/result.h is based on status_or.h
Copyright (c)  Copyright 2017 Asylo authors
Homepage: https://asylo.dev/
License: Apache 2.0
--------------------------------------------------------------------------------
This project includes code from Google's protobuf project
* cpp/src/arrow/result.h ARROW_ASSIGN_OR_RAISE is based off ASSIGN_OR_RETURN
* cpp/src/arrow/util/bit_stream_utils.h contains code from
 wire_format_lite.h
Copyright 2008 Google Inc.  All rights reserved.
Homepage: https://developers.google.com/protocol-buffers/
License:
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
---------------------------------------------------------------------------------
3rdparty dependency LLVM is statically linked in certain binary
 distributions.
```

```
Additionally some sections of source code have been derived from sources in
 LLVM
and have been clearly labeled as such. LLVM has the following license:
==============================================================================
The LLVM Project is under the Apache License v2.0 with LLVM Exceptions:
==============================================================================
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
    1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
    2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
    3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
    4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
    5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
    6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
    7. Disclaimer of Warranty. Unless required by applicable law or
```

```
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
    8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
    9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
    END OF TERMS AND CONDITIONS
    APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
    Copyright [yyyy] [name of copyright owner]
    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.
---- LLVM Exceptions to the Apache 2.0 License ----
As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into an Object form of such source code, you
may redistribute such embedded portions in such Object form without
 complying
with the conditions of Sections 4(a), 4(b) and 4(d) of the License.
In addition, if you combine or link compiled forms of this Software with
software that is licensed under the GPLv2 ("Combined Software") and if a
court of competent jurisdiction determines that the patent provision
 (Section
3), the indemnity provision (Section 9) or other Section of the License
conflicts with the conditions of the GPLv2, you may retroactively and
prospectively choose to deem waived or otherwise exclude such Section(s) of
```

```
the License, but only in their entirety and only with respect to the
 Combined
Software.
==============================================================================
Software from third parties included in the LLVM Project:
==============================================================================
The LLVM Project contains third party software which is under different
 license
terms. All such code will be identified clearly using at least one of two
mechanisms:
1) It will be in a separate directory tree with its own `LICENSE.txt` or
   `LICENSE` file at the top containing the specific license and
 restrictions
   which apply to that software, or
2) It will contain specific license and restriction terms at the top of
 every
   file.
------------------------------------------------------------------------------
3rdparty dependency gRPC is statically linked in certain binary
distributions, like the python wheels. gRPC has the following license:
Copyright 2014 gRPC authors.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------------
3rdparty dependency Apache Thrift is statically linked in certain binary
distributions, like the python wheels. Apache Thrift has the following
 license:
Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------------
3rdparty dependency Apache ORC is statically linked in certain binary
distributions, like the python wheels. Apache ORC has the following license:
Apache ORC
Copyright 2013-2019 The Apache Software Foundation
This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).
This product includes software developed by Hewlett-Packard:
(c) Copyright [2014-2015] Hewlett-Packard Development Company, L.P
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
```

```
limitations under the License.
--------------------------------------------------------------------------------
3rdparty dependency zstd is statically linked in certain binary
distributions, like the python wheels. ZSTD has the following license:
BSD License
For Zstandard software
Copyright (c) 2016-present, Facebook, Inc. All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
3rdparty dependency lz4 is statically linked in certain binary
distributions, like the python wheels. lz4 has the following license:
LZ4 Library
Copyright (c) 2011-2016, Yann Collet
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
```

```
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
3rdparty dependency Brotli is statically linked in certain binary
distributions, like the python wheels. Brotli has the following license:
Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------------------------------------------------------
3rdparty dependency rapidjson is statically linked in certain binary
distributions, like the python wheels. rapidjson and its dependencies have
 the
following licenses:
Tencent is pleased to support the open source community by making RapidJSON
available.
Copyright (C) 2015 THL A29 Limited, a Tencent company, and Milo Yip.
All rights reserved.
If you have downloaded a copy of the RapidJSON binary from Tencent, please
 note
that the RapidJSON binary is licensed under the MIT License.
If you have downloaded a copy of the RapidJSON source code from Tencent,
 please
note that RapidJSON source code is licensed under the MIT License, except
 for
the third-party components listed below which are subject to different
 license
terms.  Your integration of RapidJSON into your own projects may require
compliance with the MIT License, as well as the other licenses applicable to
the third-party components included within RapidJSON. To avoid the
 problematic
JSON license in your own projects, it's sufficient to exclude the
bin/jsonchecker/ directory, as it's the only code under the JSON license.
A copy of the MIT License is included in this file.
Other dependencies and licenses:
    Open Source Software Licensed Under the BSD License:
    --------------------------------------------------------------------
    The msinttypes r29
    Copyright (c) 2006-2013 Alexander Chemeris
    All rights reserved.
    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
 met:
    * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
```

```
    * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
    * Neither the name of  copyright holder nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.
    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 ANY
    EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
    WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
    DISCLAIMED. IN NO EVENT SHALL THE REGENTS AND CONTRIBUTORS BE LIABLE FOR
    ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR
    SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
    DAMAGE.
    Terms of the MIT License:
    --------------------------------------------------------------------
    Permission is hereby granted, free of charge, to any person obtaining a
    copy of this software and associated documentation files (the
 "Software"),
    to deal in the Software without restriction, including without
 limitation
    the rights to use, copy, modify, merge, publish, distribute, sublicense,
    and/or sell copies of the Software, and to permit persons to whom the
    Software is furnished to do so, subject to the following conditions:
    The above copyright notice and this permission notice shall be included
    in all copies or substantial portions of the Software.
    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
    DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
3rdparty dependency snappy is statically linked in certain binary
distributions, like the python wheels. snappy has the following license:
Copyright 2011, Google Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Google Inc. nor the names of its contributors may
 be
```

```
      used to endorse or promote products derived from this software without
      specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
===
Some of the benchmark data in testdata/ is licensed differently:
 - fireworks.jpeg is Copyright 2013 Steinar H. Gunderson, and
   is licensed under the Creative Commons Attribution 3.0 license
   (CC-BY-3.0). See https://creativecommons.org/licenses/by/3.0/
   for more information.
 - kppkn.gtb is taken from the Gaviota chess tablebase set, and
   is licensed under the MIT License. See
   https://sites.google.com/site/gaviotachessengine/Home/endgame-
tablebases-1
   for more information.
 - paper-100k.pdf is an excerpt (bytes 92160 to 194560) from the paper
   “Combinatorial Modeling of Chromatin Features Quantitatively Predicts DNA
   Replication Timing in _Drosophila_” by Federico Comoglio and Renato Paro,
   which is licensed under the CC-BY license. See
   http://www.ploscompbiol.org/static/license for more ifnormation.
 - alice29.txt, asyoulik.txt, plrabn12.txt and lcet10.txt are from Project
   Gutenberg. The first three have expired copyrights and are in the public
   domain; the latter does not have expired copyright, but is still in the
   public domain according to the license information
   (http://www.gutenberg.org/ebooks/53).
--------------------------------------------------------------------------------
3rdparty dependency gflags is statically linked in certain binary
distributions, like the python wheels. gflags has the following license:
Copyright (c) 2006, Google Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
3rdparty dependency glog is statically linked in certain binary
```

```
distributions, like the python wheels. glog has the following license:
Copyright (c) 2008, Google Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
A function gettimeofday in utilities.cc is based on
http://www.google.com/codesearch/p?hl=en#dR3YEbitojA/
COPYING&q=GetSystemTimeAsFileTime%20license:bsd
The license of this code is:
Copyright (c) 2003-2008, Jouni Malinen <j@w1.fi> and contributors
All Rights Reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name(s) of the above-listed copyright holder(s) nor the
   names of its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
3rdparty dependency re2 is statically linked in certain binary
distributions, like the python wheels. re2 has the following license:
Copyright (c) 2009 The RE2 Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
```

```
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its contributors
      may be used to endorse or promote products derived from this
      software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
3rdparty dependency c-ares is statically linked in certain binary
distributions, like the python wheels. c-ares has the following license:
# c-ares license
Copyright (c) 2007 - 2018, Daniel Stenberg with many contributors, see
 AUTHORS
file.
Copyright 1998 by the Massachusetts Institute of Technology.
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
 that
the above copyright notice appear in all copies and that both that copyright
notice and this permission notice appear in supporting documentation, and
 that
the name of M.I.T. not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.
M.I.T. makes no representations about the suitability of this software for
 any
purpose.  It is provided "as is" without express or implied warranty.
--------------------------------------------------------------------------------
3rdparty dependency zlib is redistributed as a dynamically linked shared
library in certain binary distributions, like the python wheels. In the
 future
this will likely change to static linkage. zlib has the following license:
zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017
  Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.
  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:
  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.
  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu
--------------------------------------------------------------------------------
3rdparty dependency openssl is redistributed as a dynamically linked shared
library in certain binary distributions, like the python wheels. openssl
preceding version 3 has the following license:
  LICENSE ISSUES
```

```
  ==============
  The OpenSSL toolkit stays under a double license, i.e. both the conditions
 of
  the OpenSSL License and the original SSLeay license apply to the toolkit.
  See below for the actual license texts.
  OpenSSL License
  ---------------
/* ====================================================================
 * Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
 * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 * ====================================================================
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com).  This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 *
 */
 Original SSLeay License
 -----------------------
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
```

```
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given
attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the
library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof)
from
*    the apps directory (application code) you must include an
acknowledgement:
*    "This product includes software written by Tim Hudson
(tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version
or
* derivative of this code cannot be changed.  i.e. this code cannot simply
be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

```
--------------------------------------------------------------------------------
This project includes code from the rtools-backports project.
* ci/scripts/PKGBUILD and ci/scripts/r_windows_build.sh are based on code
  from the rtools-backports project.
Copyright: Copyright (c) 2013 - 2019, Алексей and Jeroen Ooms.
All rights reserved.
Homepage: https://github.com/r-windows/rtools-backports
License: 3-clause BSD
--------------------------------------------------------------------------------
Some code from pandas has been adapted for the pyarrow codebase. pandas is
available under the 3-clause BSD license, which follows:
pandas license
==============
Copyright (c) 2011-2012, Lambda Foundry, Inc. and PyData Development Team
All rights reserved.
Copyright (c) 2008-2011 AQR Capital Management, LLC
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the copyright holder nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
Some bits from DyND, in particular aspects of the build system, have been
adapted from libdynd and dynd-python under the terms of the BSD 2-clause
license
The BSD 2-Clause License
    Copyright (C) 2011-12, Dynamic NDArray Developers
    All rights reserved.
    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:
        * Redistributions of source code must retain the above copyright
           notice, this list of conditions and the following disclaimer.
        * Redistributions in binary form must reproduce the above
           copyright notice, this list of conditions and the following
           disclaimer in the documentation and/or other materials provided
           with the distribution.
    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Dynamic NDArray Developers list:
 * Mark Wiebe
 * Continuum Analytics
--------------------------------------------------------------------------------
Some source code from Ibis (https://github.com/cloudera/ibis) has been
 adapted
for PyArrow. Ibis is released under the Apache License, Version 2.0.
--------------------------------------------------------------------------------
dev/tasks/homebrew-formulae/apache-arrow.rb has the following license:
BSD 2-Clause License
Copyright (c) 2009-present, Homebrew contributors
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------
cpp/src/arrow/vendored/base64.cpp has the following license
ZLIB License
Copyright (C) 2004-2017 René Nyffenegger
This source code is provided 'as-is', without any express or implied
warranty. In no event will the author be held liable for any damages arising
from the use of this software.
Permission is granted to anyone to use this software for any purpose,
 including
commercial applications, and to alter it and redistribute it freely, subject
 to
the following restrictions:
1. The origin of this source code must not be misrepresented; you must not
   claim that you wrote the original source code. If you use this source
 code
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original source code.
3. This notice may not be removed or altered from any source distribution.
René Nyffenegger rene.nyffenegger@adp-gmbh.ch
--------------------------------------------------------------------------------
This project includes code from Folly.
 * cpp/src/arrow/vendored/ProducerConsumerQueue.h
is based on Folly's
 * folly/Portability.h
 * folly/lang/Align.h
 * folly/ProducerConsumerQueue.h
```

```
Copyright: Copyright (c) Facebook, Inc. and its affiliates.
Home page: https://github.com/facebook/folly
License: http://www.apache.org/licenses/LICENSE-2.0
--------------------------------------------------------------------------------
The file cpp/src/arrow/vendored/musl/strptime.c has the following license
Copyright © 2005-2020 Rich Felker, et al.
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
The file cpp/cmake_modules/BuildUtils.cmake contains code from
https://gist.github.com/cristianadam/ef920342939a89fae3e8a85ca9459b49
which is made available under the MIT license
Copyright (c) 2019 Cristian Adam
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/portable-snippets/ contain code from
https://github.com/nemequ/portable-snippets
and have the following copyright notice:
Each source file contains a preamble explaining the license situation
for that file, which takes priority over this file.  With the
exception of some code pulled in from other repositories (such as
µnit, an MIT-licensed project which is used for testing), the code is
public domain, released using the CC0 1.0 Universal dedication (*).
(*) https://creativecommons.org/publicdomain/zero/1.0/legalcode
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/fast_float/ contain code from
https://github.com/lemire/fast_float
which is made available under the Apache License 2.0.
--------------------------------------------------------------------------------
The file python/pyarrow/vendored/docscrape.py contains code from
https://github.com/numpy/numpydoc/
which is made available under the BSD 2-clause license.
```

```
--------------------------------------------------------------------------------
The file python/pyarrow/vendored/version.py contains code from
https://github.com/pypa/packaging/
which is made available under both the Apache license v2.0 and the
BSD 2-clause license.
--------------------------------------------------------------------------------
The files in cpp/src/arrow/vendored/pcg contain code from
https://github.com/imneme/pcg-cpp
and have the following copyright notice:
Copyright 2014-2019 Melissa O'Neill <oneill@pcg-random.org>,
                    and the PCG Project contributors.
SPDX-License-Identifier: (Apache-2.0 OR MIT)
Licensed under the Apache License, Version 2.0 (provided in
LICENSE-APACHE.txt and at http://www.apache.org/licenses/LICENSE-2.0)
or under the MIT license (provided in LICENSE-MIT.txt and at
http://opensource.org/licenses/MIT), at your option. This file may not
be copied, modified, or distributed except according to those terms.
Distributed on an "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, either
express or implied.  See your chosen license for details.
--------------------------------------------------------------------------------
r/R/dplyr-count-tally.R (some portions)
Some portions of this file are derived from code from
https://github.com/tidyverse/dplyr/
which is made available under the MIT license
Copyright (c) 2013-2019 RStudio and others.
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the “Software”), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
The file src/arrow/util/io_util.cc contains code from the CPython project
which is made available under the Python Software Foundation License Version
 2.
--------------------------------------------------------------------------------
3rdparty dependency opentelemetry-cpp is statically linked in certain binary
distributions. opentelemetry-cpp is made available under the Apache License
 2.0.
Copyright The OpenTelemetry Authors
SPDX-License-Identifier: Apache-2.0
--------------------------------------------------------------------------------
ci/conan/ is based on code from Conan Package and Dependency Manager.
Copyright (c) 2019 Conan.io
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
3rdparty dependency UCX is redistributed as a dynamically linked shared
library in certain binary distributions. UCX has the following license:
Copyright (c) 2014-2015      UT-Battelle, LLC. All rights reserved.
Copyright (C) 2014-2020      Mellanox Technologies Ltd. All rights reserved.
Copyright (C) 2014-2015      The University of Houston System. All rights
 reserved.
Copyright (C) 2015           The University of Tennessee and The University
                             of Tennessee Research Foundation. All rights
 reserved.
Copyright (C) 2016-2020      ARM Ltd. All rights reserved.
Copyright (c) 2016           Los Alamos National Security, LLC. All rights
 reserved.
Copyright (C) 2016-2020      Advanced Micro Devices, Inc.  All rights
 reserved.
Copyright (C) 2019           UChicago Argonne, LLC.  All rights reserved.
Copyright (c) 2018-2020      NVIDIA CORPORATION. All rights reserved.
Copyright (C) 2020           Huawei Technologies Co., Ltd. All rights
 reserved.
Copyright (C) 2016-2020      Stony Brook University. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
The file dev/tasks/r/github.packages.yml contains code from
https://github.com/ursa-labs/arrow-r-nightly
which is made available under the Apache License 2.0.
--------------------------------------------------------------------------------
.github/actions/sync-nightlies/action.yml  (some portions)
Some portions of this file are derived from code from
https://github.com/JoshPiper/rsync-docker
which is made available under the MIT license
Copyright (c) 2020 Joshua Piper
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
.github/actions/sync-nightlies/action.yml (some portions)
Some portions of this file are derived from code from
https://github.com/burnett01/rsync-deployments
which is made available under the MIT license
Copyright (c) 2019-2022 Contention
Copyright (c) 2019-2022 Burnett01
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- python-dateutil (Apache License 2.0) [https://github.com/
dateutil/dateutil] -----------
Copyright notice(s):
Copyright 2017- Paul Ganssle <paul@ganssle.io>

Copyright 2017- dateutil contributors



License fulltext:
Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.
Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The above BSD License Applies to all code, even that also covered by Apache
 2.0.

----------- pytz (MIT License) [https://github.com/stub42/pytz] -----------
Copyright notice(s):
Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>
Copyright 1985, 1987, 1988 The Regents of the University of California.



License fulltext:
Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
```

```
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

----------- pyyaml (MIT License) [https://github.com/yaml/pyyaml]
 -----------
Copyright notice(s):
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov



License fulltext:
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- responses (Apache License 2.0) [https://github.com/getsentry/
responses] -----------
Copyright notice(s):

Copyright 2015 David Cramer


License fulltext:
                             Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.
   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.
   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.
   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.
   "Source" form shall mean the preferred form for making modifications,
```

```
   including but not limited to software source code, documentation
   source, and configuration files.
   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.
   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).
   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.
   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."
   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:
   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and
   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and
   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and
    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
```

```
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.
Copyright 2015 David Cramer
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------- six (MIT License) [https://github.com/benjaminp/six] -----------
Copyright notice(s):

Copyright (c) 2010-2020 Benjamin Peterson



License fulltext:
Copyright (c) 2010-2020 Benjamin Peterson
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------- tqdm (MIT License) [https://github.com/tqdm/tqdm] -----------
Copyright notice(s):

© Casper da Costa-Luis @casperdcl 2015-2022


Copyright (c) 2013 noamraph
```

```
License fulltext:
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).
Exceptions or notable authors are listed below
in reverse chronological order:
* files: *
  MPL-2.0 2015-2023 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.
[PR #96]: https://github.com/tqdm/tqdm/pull/96
Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------
This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.
MIT License (MIT)
-----------------
Copyright (c) 2013 noamraph
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------- tzdata (Apache License 2.0) [https://github.com/python/tzdata]
 -----------
Copyright notice(s):

Copyright (c) 2020, Paul Ganssle (Google)



License fulltext:
Apache Software License 2.0
Copyright (c) 2020, Paul Ganssle (Google)
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
```

```
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------- xxhash (BSD 2-Clause "Simplified" License) [https://github.com/
ifduyue/python-xxhash] -----------
Copyright notice(s):

Copyright (c) 2014-2020, Yue Du


License fulltext:
Copyright (c) 2014-2020, Yue Du
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- yarl (Apache License 2.0) [https://github.com/aio-libs/yarl/]
 -----------
Copyright notice(s):

Copyright 2016-2021, Andrew Svetlov and aio-libs team


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and
    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and
    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and
    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Hugging Face, Inc. / Component(s): huggingface-hub 0.22.2

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
```

```
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
```

```
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


--- ____________________________________________________________________________
=

-- NAME OF DEPENDENCY 1:
filelock
-- License Type
Unlicense license
-- Copyright Notices
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
```

```
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

--------------------------------(separator)---------------------------------
-- NAME OF DEPENDENCY 2
fsspec
-- License Type
BSD-3-Clause license
-- Copyright Notices
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------

-- NAME OF DEPENDENCY 3
packaging
-- License Type
Apache-2.0 license

-- Copyright Notices

                                 Apache License
                           Version 2.0, January 2004
```

```
                         http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

--------------------------------(separator)---------------------------------

-- NAME OF DEPENDENCY 4
pyyaml
-- License Type
MIT license

-- Copyright Notices
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
```

```
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------

-- NAME OF DEPENDENCY 5
requests

-- License Type
Apache-2.0 license

-- Copyright Notices

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
--------------------------------(separator)---------------------------------

-- NAME OF DEPENDENCY 6
certifi
-- License Type
Mozilla Public License 2.0

-- Copyright Notices
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

--------------------------------(separator)---------------------------------

-- NAME OF DEPENDENCY 7
charset-normalizer
-- License Type
MIT License

-- Copyright Notices
MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------

-- NAME OF DEPENDENCY 8
idna
-- License Type
BSD 3-Clause License

-- Copyright Notices
BSD 3-Clause License

Copyright (c) 2013-2024, Kim Davies and contributors. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)---------------------------------

-- NAME OF DEPENDENCY 9
urllib3
-- License Type
MIT License

-- Copyright Notices
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------(separator)---------------------------------

-- NAME OF DEPENDENCY 10
tqdm
-- License Type
MIT License, Mozilla Public License 2.0

-- Copyright Notices
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: #96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------(separator)---------------------------------

-- NAME OF DEPENDENCY 11
typing-extensions

-- License Type
Python Software Foundation License

-- Copyright Notices
A. HISTORY OF THE SOFTWARE
--------------------------

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
```

```
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
---------------------------------------------------------------

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.
```

```
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
```

```
5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
```

```
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
-------------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
```

```
--------------------------------(separator)---------------------------------
```

Provider: Hugging Face, Inc. / Component(s): huggingface-hub 0.23.4

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



== NAME OF DEPENDENCY 1:
filelock
== License Type
Unlicense license
== Copyright Notices
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
fsspec
== License Type
BSD-3-Clause license
== Copyright Notices
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------(separator)----------------------------------

== NAME OF DEPENDENCY 3
packaging
== License Type
Apache-2.0 license

== Copyright Notices

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
```

```
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
```

```
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 4
pyyaml
== License Type
MIT license

== Copyright Notices
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 5
requests

== License Type
```

```
Apache-2.0 license

== Copyright Notices

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
--------------------------------(separator)--------------------------------

== NAME OF DEPENDENCY 6
certifi
== License Type
Mozilla Public License 2.0

== Copyright Notices
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates
```

```
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 7
charset-normalizer
== License Type
MIT License

== Copyright Notices
MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 8
idna
== License Type
BSD 3-Clause License

== Copyright Notices
BSD 3-Clause License

Copyright (c) 2013-2024, Kim Davies and contributors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 9
urllib3
== License Type
MIT License

== Copyright Notices
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 10
```

```
tqdm
== License Type
MIT License, Mozilla Public License 2.0

== Copyright Notices
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: #96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------(separator)--------------------------------
```

```
== NAME OF DEPENDENCY 11
typing-extensions

== License Type
Python Software Foundation License

== Copyright Notices
A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.
```

```
B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
```

```
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
```

```
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT
```

```
CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
------------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

--------------------------------(separator)---------------------------------
```

Provider: Hugging Face, Inc. / Component(s): trl 0.9. 4

```
------------------------------- Top-level license --------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and
    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and
    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
```

```
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------- Copyright notices -------------------------
HuggingFace Inc.
---------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY 1
datasets
== License
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
c.f. Top-level license for full license description.
== Copyright Notices
Google Inc.
HuggingFace Inc.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
torch
== License
From PyTorch:
Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)
From Caffe2:
Copyright (c) 2016-present, Facebook Inc. All rights reserved.
All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.
All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.
All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.
```

```
All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain
All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.
All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.
All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.
Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
== Copyright Notices
From PyTorch:
Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)
From Caffe2:
Copyright (c) 2016-present, Facebook Inc. All rights reserved.
All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.
All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.
All contributions by Yangqing Jia:
```

```
Copyright (c) 2015 Yangqing Jia
All rights reserved.
All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain
All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.
All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.
All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.
Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
tqdm
== License
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).
Exceptions or notable authors are listed below
in reverse chronological order:
* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.
[PR #96]: https://github.com/tqdm/tqdm/pull/96
Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------
This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.
MIT License (MIT)
-----------------
Copyright (c) 2013 noamraph
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
```

```
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
== Copyright Notices
Copyright (c) 2013 noamraph
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 4
transformers
== License
Copyright 2018- The Hugging Face team. All rights reserved.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
 c.f. Top-level license for full license description.
== Copyright Notices
# Copyright 2021 The HuggingFace Team. All rights reserved.
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
#     http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 5
accelerate
== License
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
  c.f. Top-level license for full license description.
== Copyright Notices
# Copyright 2021 The HuggingFace Team. All rights reserved.
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
#     http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 6
peft
== License
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

c.f. Top-level license for full license description.
== Copyright Notices
# Copyright 2023 The HuggingFace Team. All rights reserved.
```

```
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
#     http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 7
tyro
== License
MIT License
Copyright (c) 2022 Brent Yi
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
== Copyright Notices
Copyright (c) 2022 Brent Yi
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 8
numpy
== License
BSD License
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
```

```
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----
https://github.com/numpy/numpy/blob/main/LICENSES_bundled.txt
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.
Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt
Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt
Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c
Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib

For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

The following software, include the ones above, is bundled/embedded with
 numpy - their licenses follow in order:
OpenBLAS
lapack-lite
tempita
dragon4
libdivide
SPLITMIX64
SFC64
PHILOX
PCG64
MT19937
Julia
Random
nympy.core.ma
Name: OpenBLAS
Files: .libs/libopenb*.so
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
```

```
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------
Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
License: 3-clause BSD
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.
  $COPYRIGHT$
  Additional copyrights may follow
  $HEADER$
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.
  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------
Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
```

```
                         reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                         rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                         reserved.
Additional copyrights may follow
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.
- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------
Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt
Copyright (c) 2022 Ian Bicking and Contributors
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------------
Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c
dragon4
  Copyright (c) 2022 Ryan Juckett
```

```
  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.
--------------------------------------------------------------------------------
Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt
zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>
  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.
  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:
  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

--------------------------------------------------------------------------------------------
Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md
Written in 2015 by Sebastiano Vigna (vigna@acm.org)
To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.
See http://creativecommons.org/publicdomain/zero/1.0/.
--------------------------------------------------------------------------------------------
Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md
© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.
The MIT License
Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.
https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083
```

```
Copyright (c) 2018 Melissa E. O'Neill
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------
Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md
Copyright 2010-2012, D. E. Shaw Research. All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.
   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md
The MIT License
PCG Random Number Generation for C.
Copyright 2014 Melissa O'Neill oneill@pcg-random.org
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
```

```
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------
Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md
Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)
The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.
Constants used in the rk_double implementation by Isaku Wada.
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------
Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md
The ziggurat methods were derived from Julia.
Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:
https://github.com/JuliaLang/julia/contributors
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------
Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md
NCSA Open Source License
Copyright (c) 2019 Kevin Sheppard. All rights reserved.
Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:
Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.
Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.
3-Clause BSD License
Copyright (c) 2019 Kevin Sheppard. All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
```

```
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
Components
Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.
-------------------------------------------------------------------------------------
Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE
Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.
 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------
Name: packaging
-----------------
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------
Name: psutil
-----------------
BSD 3-Clause License
Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------------------------------------------------------
Name: pyyaml
-----------------
            DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE
                    Version 2, December 2004
 Copyright (C) 2012 Mike Kazantsev <mk.fraggod@gmail.com>
 Everyone is permitted to copy and distribute verbatim or modified
 copies of this license document, and changing it is allowed as long
 as the name is changed.
            DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  0. You just DO WHAT THE FUCK YOU WANT TO.
-----------------------------------------------------------------------
Name: huggingface_hub
-----------------
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------------------------------------------------------------------
Name: safetensors
```

```
-----------------
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------------------------------------------------------------------
Name: docstring-parser
------------------------------------------------------------------------------------------
The MIT License (MIT)
Copyright (c) 2018 Marcin Kurczewski
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-------------------------------------------------------------------------------------------
Name: typing-extensions.
-------------------------------------------------------------------------------------------
A. HISTORY OF THE SOFTWARE
==========================
Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.
All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)
    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes
Footnotes:
(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.
(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.
Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.
B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================
Python software and documentation are licensed under the
Python Software Foundation License Version 2.
Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.
Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.
PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
```

```
--------------------------------------------
1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.
2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.
4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.
8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
--------------------------------------------
BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1
1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").
2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.
3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
```

```
INFRINGE ANY THIRD PARTY RIGHTS.
4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.
7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------
1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.
2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.
4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
```

```
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.
8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.
        ACCEPT
CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------
Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.
STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
----------------------------------------------------------------------
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
--------------------------------------------------------------------------------
Name: colorama.
--------------------------------------------------------------------------------
Copyright (c) 2010 Jonathan Hartley
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holders, nor those of its contributors
  may be used to endorse or promote products derived from this software
 without
```

```
  specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------
Name: rich
-------------------------------------------------------------------------------
Copyright (c) 2020 Will McGugan
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-------------------------------------------------------------------------------
Name: shtab
-------------------------------------------------------------------------------
Copyright 2020-2023 Casper da Costa-Luis
Licensed under the Apache Licence, Version 2.0 (the "Licence");
you may not use this project except in compliance with the Licence.
You may obtain a copy of the Licence at
   http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the Licence is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the Licence for the specific language governing permissions and
limitations under the Licence.
-------------------------------------------------------------------------------
Name: filelock
-------------------------------------------------------------------------------
This is free and unencumbered software released into the public domain.
Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.
In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
```

```
relinquishment in perpetuity of all present and future rights to this
software under copyright law.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
For more information, please refer to <http://unlicense.org>
--------------------------------------------------------------------------------
Name: fsspec
--------------------------------------------------------------------------------
BSD 3-Clause License
Copyright (c) 2018, Martin Durant
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
Name: networkx
--------------------------------------------------------------------------------
NetworkX is distributed with the 3-clause BSD license.
::
   Copyright (C) 2004-2024, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.
   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:
     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------
Name: ninja
-------------------------------------------------------------------------------------------
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
cf license above
Copyright: Jean-Christophe Fillion-Robin from Kitware Inc
-------------------------------------------------------------------------------------------
Name: sympy
-------------------------------------------------------------------------------------------
Copyright (c) 2006-2023 SymPy Development Team
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
-------------------------------------------------------------------------------
Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:
Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
```

```
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
--------------------------------------------------------------------------------
Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:
Copyright (c) 2014 Matthew Rocklin
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
--------------------------------------------------------------------------------
The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:
Copyright (c) 2009-2023, PyDy Authors
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
```

```
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:
Copyright 2016, latex2sympy
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------
Name: triton
--------------------------------------------------------------------------------
/*
* Copyright 2018-2020 Philippe Tillet
* Copyright 2020-2022 OpenAI
*
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files
* (the "Software"), to deal in the Software without restriction,
* including without limitation the rights to use, copy, modify, merge,
* publish, distribute, sublicense, and/or sell copies of the Software,
* and to permit persons to whom the Software is furnished to do so,
* subject to the following conditions:
*
* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
* IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/
--------------------------------------------------------------------------------
Name: regex
--------------------------------------------------------------------------------
This work was derived from the 're' module of CPython 2.6 and CPython 3.1,
copyright (c) 1998-2001 by Secret Labs AB and licensed under CNRI's Python
 1.6
license.
All additions and alterations are licensed under the Apache 2.0 License.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
Cf licence text above.
Copyright 2020 Matthew Barnett
 --------------------------------------------------------------------------------
```

```
Name: requests
--------------------------------------------------------------------------------------------
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
cf license text above.
Copyright © 2001-2023 Python Software Foundation. All rights reserved.
 --------------------------------------------------------------------------------------------
Name: tokenizers
--------------------------------------------------------------------------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
cf license text above.
Copyright 2018-2024 The Hugging Face team. All rights reserved.
 --------------------------------------------------------------------------------------------
Name: pyarrow-hotfix
--------------------------------------------------------------------------------------------
                                   Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
cf license text above.
Copyright: 2023-present Antoine Pitrou
--------------------------------------------------------------------------------------------
Name: xxhash
--------------------------------------------------------------------------------------------
 Copyright (c) 2014-2020, Yue Du
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------------------
Name: multiprocess
--------------------------------------------------------------------------------------------
 Copyright (c) 2008-2016 California Institute of Technology.
Copyright (c) 2016-2024 The Uncertainty Quantification Foundation.
All rights reserved.
This software forks the python package "multiprocessing". Licence and
copyright information for multiprocessing can be found in "COPYING".
This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.
Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions
are met:
    - Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    - Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
Name: aiohttp
--------------------------------------------------------------------------------
    Copyright aio-libs contributors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------------------------------------------------------
Name: pyarrow
--------------------------------------------------------------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
Cf license text above.
Copyright: 2016-2024 Apache Software Foundation
--------------------------------------------------------------------------------
Name: dill
--------------------------------------------------------------------------------
 Copyright (c) 2004-2016 California Institute of Technology.
Copyright (c) 2016-2024 The Uncertainty Quantification Foundation.
All rights reserved.
This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
    - Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    - Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
```

```
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------
Name: pandas
-------------------------------------------------------------------------------------------
BSD 3-Clause License
Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.
Copyright (c) 2011-2024, Open source contributors.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: iHeartMedia + Entertainment, Inc. / Component(s): play-swagger 0.7.4

```
iheartradio/play-swagger 0.7.4
COPYRIGHT: Copyright 2015 iHeartMedia + Entertainment, Inc.
LICENSE: Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
```

```
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS




********************************
4P Dependencies:
********************************


scala 2.12.4
COPYRIGHT and LICENSE:
This software includes projects with other licenses -- see `doc/LICENSE.md`.

Copyright (c) 2002-2017 EPFL
Copyright (c) 2011-2017 Lightbend, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
```

```
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
  * Neither the name of the EPFL nor the names of its contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
com.typesafe.play » routes-compiler_2.12 2.6.6
com.typesafe.play » play-json_2.12 2.6.0
com.typesafe.play » twirl-api_2.12 1.3.12
COPYRIGHT: 2009-2019 Lightbend Inc. <https://www.lightbend.com>
LICENSE: Apache 2.0 https://github.com/playframework/playframework/
blob/2.6.6/LICENSE


---
org.yaml » snakeyaml 1.18
COPYRIGHT: Copyright (c) 2008, http://www.snakeyaml.org
LICENSE: Apache 2.0 https://github.com/develar/snakeyaml/blob/v1.18/
LICENSE.txt


---
commons-io » commons-io 2.5
COPYRIGHT: Copyright 2002-2016 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/commons-io/blob/commons-
io-2.5/LICENSE.txt


---
org.scala-lang.modules » scala-parser-combinators_2.12 1.0.6
org.scala-lang.modules » scala-xml_2.12 1.0.6
COPYRIGHT and LICENSE:


Copyright (c) 2002-2013 EPFL Copyright (c) 2011-2013 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the EPFL nor the names of its contributors
  may be used to endorse or promote products derived from this software
```

```
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

Provider: INRIA, France Telecom / Component(s): ASM 7.1

```
https://gitlab.ow2.org/asm/asm/blob/master/LICENSE.txt

ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: INRIA, France Telecom / Component(s): ASM 9.1

```
https://gitlab.ow2.org/asm/asm/blob/master/LICENSE.txt

ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
```

```
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Intel / Component(s): Data Plane Development Kit (DPDK) 16.11

```
This package contains software provided in three functional areas:

Section I : User Space Components in binary format used by the application
 software (BSD or Public Domain).
Section II : Linux Kernel Modules in binary format and used by the Oracle
 Linux operating system.
Section III : Example Code, not used by or distributed with the application
 software
in any format (binary or source), but is made available for download in
 source code format, including
the associated copyright notices and license terms, along with the other
 third party open source code
for DPDK on OTN per Oracle guidelines.

Each section is listed below, with license and author attributions.
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
Section I: User Space Components (BSD or Public Domain)
The user space components (i) are made available under a top-level 3-clause
 BSD license from Intel
and other contributors, (ii) other BSD-type licenses from other individuals
 and entities; or (iii)
have been put into the public domain, all as shown below in this Section I.
-------------------------------------------------------------------------------

Copyright (c) 2001-2016, Intel Corporation. All Rights Reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------
Copyright(c) 2015 Akamai Technologies.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------

Copyright(c) 2015 Cavium Networks. All rights reserved.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of Cavium Networks nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------

Copyright(c) 2015 Vladimir Medvedkin
All rights reserved.
*
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
*
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.
*
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------

Copyright (C) EZchip Semiconductor 2015.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of EZchip Semiconductor nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------

Copyright (c) 2007-2013 Broadcom Corporation.

Eric Davis
David Christensen
Gary Zambrano

Copyright (c) 2013-2015 Brocade Communications Systems, Inc.
Copyright (c) 2015 QLogic Corporation.
All rights reserved.
www.qlogic.com

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of Broadcom Corporation nor the name of its contributors
may be used to endorse or promote products derived from this software
without specific prior written consent.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS'
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------

Copyright(c) 2014-2015 Chelsio Communications.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of Chelsio Communications nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------

Copyright (c) 2015-2016 Amazon.com, Inc. or its affiliates.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of copyright holder nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------

Copyright 2012-2015 6WIND S.A.
Copyright 2012 Mellanox.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of 6WIND S.A. nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------

Copyright (c) 2014, 2015 Netronome Systems, Inc.
All rights reserved.

Small portions derived from code Copyright(c) 2010-2015 Intel Corporation.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-------------------------------------

Copyright (c) 2015 - 2016 CESNET
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of CESNET nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------

Copyright(c) 2015 RehiveTech. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of RehiveTech nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------

Copyright (c) 2016 IGEL Co., Ltd.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of IGEL Co.,Ltd. nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------

Copyright(c) Hannes Frederic Sowa
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------

Copyright 2012-2015 6WIND S.A.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of 6WIND S.A. nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------
```

```
Copyright(c) 2014 John W. Linville

Originally based upon librte_pmd_pcap code:

Copyright(c) 2010-2015 Intel Corporation. All rights reserved.
Copyright(c) 2014 6WIND S.A.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------

Copyright(c) 2014 John W. Linville
Copyright(c) 2010-2014 Intel Corporation. All rights reserved.
Copyright(c) 2014 6WIND S.A.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
Copyright (c) 2010, Keith Wiles
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
* Neither the name of the University of California, Berkeley nor the
names of its contributors may be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE REGENTS AND CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------

Copyright(c) 2010-2014 Tilera Corporation. All rights reserved.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of Tilera Corporation nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
```

Copyright (c) 2007-2009 Kip Macy kmacy@freebsd.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. The name of Kip Macy nor the names of other
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Copyright (C) IBM Corporation 2014.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of IBM Corporation nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009, Olivier MATZ
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

```
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
* Neither the name of the University of California, Berkeley nor the
names of its contributors may be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE REGENTS AND CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------

Copyright (c) 1982, 1986, 1990, 1993
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

---------------------------------------------------------------------------

Copyright (C) IBM Corporation 2014.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
* Neither the name of IBM Corporation nor the names of its
contributors may be used to endorse or promote products derived
```

```
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Inspired from FreeBSD src/sys/powerpc/include/atomic.h
Copyright (c) 2008 Marcel Moolenaar
Copyright (c) 2001 Benno Rice
Copyright (c) 2001 David E. O'Brien
Copyright (c) 1998 Doug Rabson
All rights reserved.

Inspired from FreeBSD src/sys/powerpc/include/endian.h
Copyright (c) 1987, 1991, 1993
The Regents of the University of California. All rights reserved.


---------------------------------------------------------------------------

Copyright (C) 2007 VMware, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
---------------------------------------------------------------------------

Copyright 2008-2014 Cisco Systems, Inc. All rights reserved.
Copyright 2007 Nuova Systems, Inc. All rights reserved.
Copyright (c) 2014, Cisco Systems, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------
Copyright (c) 1996 by Internet Software Consortium.
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.
-------------------------------------------------------------------------------------
Certain files in this package are dual licensed as follows:
“This file is provided under a dual BSD/GPLv2 license. When using or
 redistributing this file, you may do so under either license.”
and/or
"This file is provided under a dual BSD/LGPLv2 license. When using or
 redistributing this file, you may do so under either license."
Oracle elects to license such files under the terms of the BSD license as
 expressly permitted herein.
-------------------------------------------------------------------------------------
Public Domain (code snippets):
Copyright (C) 1996 Bob Jenkins (bob_jenkins@burtleburtle.net)
http://burtleburtle.net/bob/hash/
These are the credits from Bob's sources:
lookup2.c, by Bob Jenkins, December 1996, Public Domain.
hash(), hash2(), hash3, and mix() are externally useful functions.
Routines to test the hash are included if SELF_TEST is defined.
You can use this free for any purpose. It has no warranty.

-------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------
Section II: Linux Kernel Module (GPL)
The Linux kernel module and associated drivers are licensed under the GPL
 version 2, as shown below in this Section II.
-------------------------------------------------------------------------------------

Copyright(c) 1999-2014 Intel Corporation. All rights reserved.

This program is free software; you can redistribute it and/or modify
it under the terms of version 2 of the GNU General Public License as
```

```
published by the Free Software Foundation.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St - Fifth Floor, Boston, MA 02110-1301 USA.
--------------------------------------------------------------------------------
Copyright(c) 2007-2014 Intel Corporation. All rights reserved.

This program is free software; you can redistribute it and/or modify
it under the terms of version 2.1 of the GNU Lesser General Public License
as published by the Free Software Foundation.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St - Fifth Floor, Boston, MA 02110-1301 USA.
--------------------------------------------------------------------------------

Intel 10 Gigabit PCI Express Linux driver
Copyright(c) 1999 - 2012 Intel Corporation.
Copyright (c)2006 - 2007 Myricom, Inc. for some LRO specific code
Copyright (C) 2004 Red Hat, Inc. All Rights Reserved.
Written by David Howells (dhowells@redhat.com)


This program is free software; you can redistribute it and/or modify it
under the terms and conditions of the GNU General Public License,
version 2, as published by the Free Software Foundation.

This program is distributed in the hope it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
more details.

You should have received a copy of the GNU General Public License along with
this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin St - Fifth Floor, Boston, MA 02110-1301 USA.

The full GNU General Public License is included in this distribution in
the file called "COPYING".

Contact Information:
e1000-devel Mailing List
Intel Corporation, 5200 N.E. Elam Young Parkway, Hillsboro, OR 97124-6497
--------------------------------------------------------------------------------

Intel(R) Gigabit Ethernet Linux driver
Copyright(c) 2007-2013 Intel Corporation.
Copyright(c) 2011 Richard Cochran for some of the
82576 and 82580 code
Copyright (c) 2003 Matthew Wilcox


This program is free software; you can redistribute it and/or modify it
under the terms and conditions of the GNU General Public License,
```

```
version 2, as published by the Free Software Foundation.

This program is distributed in the hope it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
more details.

You should have received a copy of the GNU General Public License along with
this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin St - Fifth Floor, Boston, MA 02110-1301 USA.

The full GNU General Public License is included in this distribution in
the file called "COPYING".

Contact Information:
e1000-devel Mailing List
Intel Corporation, 5200 N.E. Elam Young Parkway, Hillsboro, OR 97124-6497

-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------
Section III: Example Code (BSD or GPL)
The example code, which is neither used nor distributed the application
 software as explained above, is either
licensed under either the BSD or the GPLv2 licenses with examples shown
 below in this Section III.
Refer to the source code for full attributions.
-------------------------------------------------------------------------------
Some of the Example code (not using): GPL (used for example kernel modules)
-----------------------------------------------------------------------------
Copyright(c) 2010-2014 Intel Corporation. All rights reserved.

This program is free software; you can redistribute it and/or modify
it under the terms of version 2 of the GNU General Public License as
published by the Free Software Foundation.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St - Fifth Floor, Boston, MA 02110-1301 USA.
The full GNU General Public License is included in this distribution
in the file called LICENSE.GPL.
-----------------------------------------------------------------------------
Some of the Example code (not using): 3-clause BSD
-----------------------------------------------------------------------------
Copyright (C) 2011 Matteo Landi, Luigi Rizzo. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the
distribution.

3. Neither the name of the authors nor the names of their contributors
```

```
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY MATTEO LANDI AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL MATTEO LANDI OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Intel Corporation / Component(s): Lustre File System 2.15.5

```
NOTE! This copyright does *not* cover user programs that use kernel
 services by normal system calls - this is merely considered normal use
 of the kernel, and does *not* fall under the heading of "derived work".
 Also note that the GPL below is copyrighted by the Free Software
 Foundation, but the instance of code that it refers to (the Linux
 kernel) is copyrighted by me and others who actually wrote it.

            Linus Torvalds

----------------------------------------

            GNU GENERAL PUBLIC LICENSE
               Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.
                      59 Temple Place, Suite 330, Boston, MA  02111-1307
  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
```

```
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

            GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.
```

```
    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
```

```
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.
```

```
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

              END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
```

```
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) 19yy  <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
  USA


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19yy name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.

---------Additional Copyright notices---------
 * 2003, Copyright, Hewlett-Packard Development Compnay, LP.
 * COPYRIGHT (c) 2006 The Regents of the University of Michigan
 * Copyright  2009 Sun Microsystems, Inc. All rights reserved
 * Copyright (C) 1991, NeXT Computer, Inc.  All Rights Reserverd.
 * Copyright (C) 2004 Cluster File Systems, Inc.
 * Copyright (C) 2011 FUJITSU LIMITED.  All rights reserved.
 * Copyright (C) 2014, DataDirect Networks, Inc.
 * Copyright (c) 1996 L. Peter Deutsch
 * Copyright (c) 1998-2001 Apple Computer, Inc. All rights reserved.
```

```
 * Copyright (c) 2000 Dug Song <dugsong@UMICH.EDU>.
 * Copyright (c) 2000 The Regents of the University of Michigan.
 * Copyright (c) 2002 Andy Adamson <andros@UMICH.EDU>.
 * Copyright (c) 2002 J. Bruce Fields <bfields@UMICH.EDU>.
 * Copyright (c) 2002 Marius Aamodt Eriksen <marius@UMICH.EDU>.
 * Copyright (c) 2004 Daniel McNeil <daniel@osdl.org>
 * Copyright (c) 2009, 2010, Oracle and/or its affiliates. All rights
 reserved.
 * Copyright (c) 2010, 2017, Intel Corporation.
 * Copyright (c) 2014 Bull SAS
 * Copyright (c) 2015, James Simmons
 * Copyright (c) 2016 DDN Storage
 * Copyright (c) 2017 Microsoft Corporation
 * Copyright (c) 2017, 2021, DDN Storage Corporation.
 * Copyright (c) 2017, Commissariat a l'Energie Atomique et aux Energies
 * Copyright (c) 2017, Cray Inc. All Rights Reserved.
 * Copyright (c) 2017, Intel Corporation. All rights reserved.
 * Copyright (c) 2017, Seagate Technology LLC
 * Copyright (c) 2018, 2022, Data Direct Networks
 * Copyright (c) 2018, Intel Corporation.
 * Copyright (c) 2018-2020 Data Direct Networks.
 * Copyright (c) 2019 RedHat Inc.  All Rights Reserved.
 * Copyright (c) 2020 Intel Corporation.
 * Copyright (c) 2020, 2022, DDN Storage Corporation.
 * Copyright (c) 2020, Whamcloud.
 * Copyright (c) 2021  UT-Battelle, LLC
 * Copyright (c) 2023 James Simmons <jsimmons@infradead.org>
 * Copyright (c) 2023, Amazon and/or its affiliates. All rights reserved.
 * Copyright (c) 2023, DataDirect Networks Storage.
 * Copyright (c) 2023, Whamcloud DDN Storage Corporation.
 * Copyright 1990,1991 by the Massachusetts Institute of Technology.
 * Copyright 1994 by OpenVision Technologies, Inc.
 * Copyright 2013 Xyratex Technology Limited
 * Copyright 2019 Google LLC
 * Copyright 2020, DataDirect Networks Storage.
 * Copyright 2022 Hewlett Packard Enterprise Development LP
 * Copyright(c) 2011-2015 Intel Corporation All rights reserved.

---------Fourth-party information---------

This package, the EXT2 filesystem utilities, are made available under
the GNU Public License version 2, with the exception of the lib/ext2fs
and lib/e2p libraries, which are made available under the GNU Library
General Public License Version 2, the lib/uuid library which is made
available under a BSD-style license and the lib/et and lib/ss
libraries which are made available under an MIT-style license.  Please
see lib/uuid/COPYING for more details for the license for the files
comprising the libuuid library, and the source file headers of the
libet and libss libraries for more information.

The most recent officially distributed version can be found at
http://e2fsprogs.sourceforge.net.  If you need to make a distribution,
that's the one you should use.  If there is some reason why you'd like
a more recent version that is still in ALPHA testing (i.e., either
using the "WIP" test distributions or one from the hg or git
repository from the development branch, please contact me
(tytso@mit.edu) before you ship.  The release schedules for this
package are flexible, if you give me enough lead time.


                     Theodore Ts'o
                     23-June-2007

----------------------------------------------------------------------
```

```
            GNU GENERAL PUBLIC LICENSE
               Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.
     51 Franklin Street, Fifth Floor, Boston, MA 02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

            GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
```

```
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.
```

```
In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
```

```
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
```

```
of promoting the sharing and reuse of software generally.

                NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

             END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
  USA


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year  name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
```

```
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.

----------------------------------------------------------------------

          GNU LIBRARY GENERAL PUBLIC LICENSE
               Version 2, June 1991

 Copyright (C) 1991 Free Software Foundation, Inc.
                51 Franklin Street, Fifth Floor, Boston, MA 02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the library GPL.  It is
 numbered 2 because it goes with version 2 of the ordinary GPL.]

                Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it.  You can use it for
your libraries, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
```

```
code.  If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

  Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library.  If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software.  To prevent this,
we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

  Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs.  This
license, the GNU Library General Public License, applies to certain
designated libraries.  This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

  The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it.  Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program.  However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

  Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries.  We
concluded that weaker conditions might promote sharing better.

  However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves.  This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them.  (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.)  The hope is that this
will lead to faster development of free libraries.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, while the latter only
works together with the library.

  Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

           GNU LIBRARY GENERAL PUBLIC LICENSE
```

```
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License").  Each licensee is
addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
```

```
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
```

```
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    c) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    d) Verify that the user has already received a copy of these
```

```
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
```

License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE

```
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

             END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Library General Public
    License as published by the Free Software Foundation; either
    version 2 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Library General Public License for more details.

    You should have received a copy of the GNU Library General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!

---------Additional fourth-party Copyright notices---------
   Copyright (C) Andrew Esh                        2001
```

```
   Copyright (C) Andrew Tridgell              1999-2005
   Copyright (C) Jeremy Allison               2000-2006
   Copyright (C) Paul `Rusty' Russell         2000
 * Copyright (C) 1985-2005 by the Massachusetts Institute of Technology.
 * Copyright (c) 1988 Regents of the University of California.
 * Copyright (C) 1993, 1994  Remy Card <card@masi.ibp.fr>
 * Copyright (C) 1997 Kaz Kylheku <kaz@ashi.footprints.net>
 * Copyright (c) 1997 Mark Habersack
 * Copyright (c) 1997, 1998, 2001 Kungliga Tekniska H^gskolan
 * Copyright (C) 1998 Andrey Shedel (andreys@ns.cr.cyco.com)
 * Copyright (C) 2000 Andreas Dilger
 * Copyright (c) 2000 Silicon Graphics, Inc.  All Rights Reserved.
 * Copyright (c) 2001  Daniel Phillips
 * Copyright (C) 2001 Andreas Gruenbacher, <a.gruenbacher@computer.org>
 * Copyright (C) 2001 Red Hat, Inc.
 * Copyright (C) 2003 VMware, Inc.
 * Copyright (c) 2003-2005 Silicon Graphics, Inc.
 * Copyright (C) 2004 Kay Sievers <kay.sievers@vrfy.org>
 * Copyright (C) 2004 Sam Hocevar <sam@hocevar.net>
 * Copyright (C) 2006 Cluster File Systems, Inc.
 * Copyright (C) 2006, 2007 by Andreas Dilger <adilger@clusterfs.com>
 * Copyright (C) 2009 NEC Software Tohoku, Ltd.
 * Copyright (C) 2009 Sun Microsystems, Inc.
 * Copyright (C) 2010 Red Hat, Inc., Lukas Czerner <lczerner@redhat.com>
 * Copyright (C) 2011 Whamcloud, Inc.
 * Copyright (C) 2012 Theodore Ts'o.  This file may be redistributed
 * Copyright (C) 2012 Zheng Liu <wenqing.lz@taobao.com>
 * Copyright (c) 2012, Intel Corporation.
 * Copyright (c) 2014 Google, Inc.
 * Copyright (C) 2014 Oracle.  This file may be redistributed
 * Copyright (C) 2014 Robert Yang <liezhi.yang@windriver.com>
 * Copyright (c) 2014 SGI.
 * Copyright (C) 2014 Theodore Ts'o.  This file may be redistributed
 * Copyright (C) 2015 Jan Kara.
 * Copyright (C) 2016 The Android Open Source Project
 * Copyright (c) 2018 Collabora Ltd.
 * Copyright (C) 2022 Red Hat, Inc., Lukas Czerner <lczerner@redhat.com>
 * Copyright (C) 2023 Johannes Schauer Marin Rodrigues <josch@debian.org>
 * Copyright (C) Andries Brouwer
 * Copyright 1986, 1987, 1988 by MIT Information Systems and
 * Copyright 1987, 1988, 1989 by Massachusetts Institute of Technology
 * Copyright 1987, 1988, 1989 by MIT Student Information Processing
 * Copyright 1987, 1988, 1989 Massachusetts Institute of Technology
 * Copyright 1999 by David Beattie
 * Copyright 1999-2000 Red Hat Software --- All Rights Reserved
 * Copyright 2000 Red Hat corp --- All Rights Reserved
 * Copyright 2003 by MIT Student Information Processing Board
 * Copyright 2014, Oracle, Inc.
 * Copyright 2019 Google LLC
 * Copyright IBM Corporation, 2007
Copyright (C) 1995 Gadi Oxman
```

Provider: Isaac Z. Schlueter / Component(s): semver 6.3.0

```
URL for License and Copyright Notice - https://github.com/npm/node-semver/
blob/master/LICENSE

Copyright (c) Isaac Z. Schlueter and Contributors

LICENSE NAME: ISC
```

```
Permission to use, copy, modify, and/or distribute this software for any
 purpose with or without fee is hereby granted, provided that the above
 copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
 ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
 IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-----------------------------------------------------------------

Note - The component has NO 4th party components.
```

Provider: Istio Authors / Component(s): glog 2cc4b79

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
```

```
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
```

```
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2016 Istio Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Istio Authors / Component(s): glog ad18aa9

```
                              Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
```

```
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
```

```
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2016 Istio Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Copyright (c) 2016 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Copyright (c) 2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Copyright (c) 2016-2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: iText Software Corp. / Component(s): iText OEM Desktop 5.5.13

```
Exhibit C and Attachment 1 to Exhibit C provide that portions of the
        Software are written by 3rd party contributors. Further, iText
 Software has
        acquired rights to these portions by signed authorization of the
 other party.
        Attachment 1 provides details of these 3rd party contributors. The
 copy right
        is held by 1T3XT BVBA, the other owner of the Software. (Agreement,
 Exhibit
        C - Pg. 13 & 15)
```

Provider: iText Software Corp. / Component(s): iText OEM Desktop 7.1.1

```
Exhibit C and Attachment 1 to Exhibit C provide that portions of the
        Software are written by 3rd party contributors. Further, iText
 Software has
        acquired rights to these portions by signed authorization of the
 other party.
        Attachment 1 provides details of these 3rd party contributors. The
 copy right
        is held by 1T3XT BVBA, the other owner of the Software. (Agreement,
 Exhibit
        C - Pg. 13 & 15)
```

Provider: iText Software Corp. / Component(s): iText OEM Server 5.1.13

```
Exhibit C and Attachment 1 to Exhibit C provide that portions of the
        Software are written by 3rd party contributors. Further, iText
 Software has
        acquired rights to these portions by signed authorization of the
 other party.
        Attachment 1 provides details of these 3rd party contributors. The
 copy right
        is held by 1T3XT BVBA, the other owner of the Software. (Agreement,
 Exhibit
        C - Pg. 13 & 15)
```

Provider: iText Software Corp. / Component(s): iText OEM Server 7.1.1

```
Exhibit C and Attachment 1 to Exhibit C provide that portions of the
        Software are written by 3rd party contributors. Further, iText
 Software has
        acquired rights to these portions by signed authorization of the
 other party.
        Attachment 1 provides details of these 3rd party contributors. The
 copy right
        is held by 1T3XT BVBA, the other owner of the Software. (Agreement,
 Exhibit
        C - Pg. 13 & 15)
```

Provider: James Hurst / Component(s): lua-resty-http 0.13

```
Copyright (c) 2013, James Hurst
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

  Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

  Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: James Messinger / Component(s): json-schema-ref-parser 6.1.0

```
json-schema-ref-parser 6.1.0
COPYRIGHT and LICENSE:

The MIT License (MIT)

Copyright (c) 2015 James Messinger

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


========================
4P Dependencies:


"call-me-maybe": "^1.0.1"
COPYRIGHT and LICENSE:


As a work of the United States Government, this project is in the public
 domain within the United States.

Additionally, we waive copyright and related rights in the work worldwide
 through the CC0 1.0 Universal public domain dedication.
CC0 1.0 Universal Summary

This is a human-readable summary of the Legal Code (read the full text).
No Copyright
```

```
The person who associated a work with this deed has dedicated the work to
 the public domain by waiving all of his or her rights to the work worldwide
 under copyright law, including all related and neighboring rights, to the
 extent allowed by law.

You can copy, modify, distribute and perform the work, even for commercial
 purposes, all without asking permission.
Other Information

In no way are the patent or trademark rights of any person affected by CC0,
 nor are the rights that other persons may have in the work or in how the
 work is used, such as publicity or privacy rights.

Unless expressly stated otherwise, the person who associated a work with
 this deed makes no warranties about the work, and disclaims liability for
 all uses of the work, to the fullest extent permitted by applicable law.
 When using or citing the work, you should not imply endorsement by the
 author or the affirmer.



---
"js-yaml": "^3.12.1"
COPYRIGHT and LICENSE:
(The MIT License)

Copyright (C) 2011-2015 by Vitaly Puzrin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
"ono": "^4.0.11"
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 James Messinger

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: James Messinger / Component(s): swagger-parser 4.1.0

```
URL : https://github.com/BigstickCarpet/swagger-parser/blob/master/LICENSE

The MIT License (MIT)

Copyright (c) 2015 James Messinger

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: James Saryerwinnie / Component(s): JMESPath 1.0.1

```
Copyright (c) 2013 Amazon.com, Inc. or its affiliates.  All Rights Reserved

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish, dis-
tribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the fol-
lowing conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABIL-
ITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
```

Provider: Jean-loup Gailly and Mark Adler / Component(s): zlib 1.2.7-20

```
Overview:  Zlib itself is licensed under the permissive zlib license as
 shown below.  However, please note that the zlib distribution also includes
 separate files under a "contrib" directory that are not part of zlib and
 were contributed by other authors under other license terms, including
 the disfavored GPL.  Please refer to the zlib README and FAQ for more
 information.

/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.7, May 2nd, 2012

  Copyright (C) 1995-2012 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu


  The data format used by the zlib library is described by RFCs (Request for
  Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
  (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

Provider: Jean-loup Gailly and Mark Adler / Component(s): Zlib Data Compression Library 1.2.11

```
zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017

  Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
```

```
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu
```

Provider: Jed Watson / Component(s): Classnames 2.2.5

```
URL for License - https://opensource.org/licenses/MIT

URL for Copyright Notice  - Unable to find URL for Copyright Notice

Copyright (c) 2016 Jed Watson

LICENSE NAME: MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NON INFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
Fourth party components/dependencies -

The following are the used Dependencies.

1) diff@1.4.0:BSD

URL for license and Copyright Notice - https://github.com/kpdecker/jsdiff/
blob/master/LICENSE

Copyright (c) 2009-2015, Kevin Decker  All rights reserved.

 LICENSE NAME: Software License Agreement (BSD License)

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
```

```
3. Neither the name of Peter Bengtsson, nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES,
 INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Diff’s Dev Dependency:

1)colors  v. 1.1.0
2)Istanbul v. 0.3.2
3)mocha v. 2.2.4
4)should v. 6.0.1

2) inherits@2.0.3:ISC

URL for license and Copyright Notice – https://github.com/isaacs/inherits/
blob/master/LICENSE

Copyright (c) Isaac Z. Schlueter

Inherit’s Dev Dependency:  tap v.7.1.0

3) lru-cache@2.7.3:ISC

URL for license and Copyright Notice – Unable to find URL for license and
 Copyright Notice

Copyright (c) Isaac Z. Schlueter and Contributors

lru-cache’s Dev Dependency:  1) tap v.1.2.0
                                                        2) weak
Contributors –

1) Isaac Z. Schlueter
2) Brian Cottingham
3) Carlos Brito Lage
4) Jesse Dailey
5) Kevin O'Hara
6) Marco Rogers
7) Mark Cavage
8) Marko Mikulicic
9) Nathan Rajlich
10) Satheesh Natesan
11) Trent Mick
12) ashleybrener
13) n4kz

LICENSE NAME: The ISC License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NON INFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

4) mkdirp@0.5.1:MIT

URL for license - https://opensource.org/licenses/MIT

Copyright Notice – Unable to find URL for Copyright Notice

Copyright 2010 James Halliday

mkdirp’s Dependency : minimist v. 0.0.8

mkdirp’s Dev Dependency:  1) tap v.1
                                                    2) mock-fs v. 2 >=2.7.0

5) benchmark@1.0.0:MIT

URL for license - https://opensource.org/licenses/MIT

Copyright Notice – Unable to find URL for Copyright Notice

Copyright 2010-2012 Mathias Bynens
Based on JSLitmus.js, copyright Robert Kieffer
Modified by John-David Dalton

6) minimist@0.0.8:MIT

URL for license – https://opensource.org/licenses/MIT

Copyright Notice is not provided

Minimist’s Dev Dependency:  1) tap v. 0.4.0
                                                  2) tape v. 1.0.4

7) debug@2.2.0:MIT

URL for License and Copyright Notice - https://github.com/visionmedia/debug/
blob/master/LICENSE

Copyright (c) 2014 TJ Holowaychuk

Contributor - Nathan Rajlich

Debug’s dependency – ms v. 0.7.1

Debug’s Dev-dependencies – 1) broserify v.9.0.3
                                                   2) Mocha v. *

8) ms@0.7.1:MIT*

URL for license – https://opensource.org/licenses/MIT

URL for Copyright Notice – Unable to find URL for Copyright Notice
```

```
Copyright (c) 2014 Guillermo Rauch

ms's Dev-dependencies - 1) serve v. *
                                          2) Mocha v. *
                                          3) expect.js: v. *

LICENSE NAME: MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NON INFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

The following are the unused Dependencies.

Dependencies - glob@3.2.11:BSD,sigmund@1.0.1:ISC,growl@1.9.2:MIT,to-iso-
string@0.0.2:MIT,escape-string-
regexp@1.0.2:MIT,mocha@2.5.3:MIT,minimatch@0.3.0:MIT,supports-
color@1.2.0:MIT,commander@0.6.1:MIT*,commander@2.3.0:MIT*,jade@0.26.3:MIT*,mkdirp@0.3.0
X11
```

Provider: Jed Watson / Component(s): classnames 2.2.6

```
---------separator---------
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
```

Provider: Jed Watson / Component(s): classnames 2.2.7

```
---------separator---------
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
```

```
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
```

Provider: Jed Watson / Component(s): react-select 1.2.1

```
The MIT License (MIT)

Copyright (c) 2018 Jed Watson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---------
=========
---------

"classnames, 2.2.5, https://github.com/JedWatson/classnames/blob/master/
LICENSE

The MIT License (MIT)

Copyright (c) 2018 Jed Watson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------------------

emotion, 9.2.6, https://github.com/emotion-js/emotion/blob/master/LICENSE
 (MIT)

The MIT License (MIT)

Copyright (c) 2016 Kye Hohenberger

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------


memoize-one, 4.0.0, https://github.com/alexreardon/memoize-one/blob/master/
LICENSE

MIT License

Copyright (c) 2017 Alexander Reardon

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------
raf, 3.4.0, https://github.com/chrisdickinson/raf/blob/master/README.md
 (MIT)

Copyright (c) Chris Dickinson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------------------

react-input-autoresize, 2.2.1, https://github.com/JedWatson/react-input-
autosize/blob/master/LICENSE

The MIT License (MIT)

Copyright (c) 2018 Jed Watson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------


react-transition-group, 2.4.0, https://github.com/reactjs/react-transition-
group/blob/master/LICENSE

BSD 3-Clause License

Copyright (c) 2016, React Community
Forked from React (https://github.com/facebook/react) Copyright 2013-
present, Facebook, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


===================
```

Provider: Jenkins CI / Component(s): Jenkins 1.648

```
MIT License

Copyright (c) 2011, contributors of the Jenkins project
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Jenkins X Authors / Component(s): Jenkins X cloud environments a4f6a82

```
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
```

```
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
```

```
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
```

```
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Jeremy Saenz / Component(s): Cli 1.20.0

```
cli v1.12.0
COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2016 Jeremy Saenz & Contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Joda.org / Component(s): joda-time 2.10.10

```
joda-time 2.10.1

COPYRIGHT: Copyright Joda.org and 2001-2015 Stephen Colebourne

LICENSE: Apache 2.0
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Joda.org / Component(s): Joda-Time 2.10.12

```
Apache License
```

```
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Top Level Component : joda-time
Top Level Component License : Apache 2.0
Top Level Component Copyright : Copyright

Copyright 2001-2017 Stephen Colebourne
```

Provider: Joda.org / Component(s): joda-time 2.12.5

```
TOP-LEVEL COPYRIGHT NOTICE
==============================================================================
= NOTICE file corresponding to section 4d of the Apache License Version 2.0
 =
==============================================================================
This product includes software developed by
Joda.org (https://www.joda.org/).

---------separator---------
TOP-LEVEL LICENSE TEXT

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
```

```
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
```

```
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Joel Costigliota / Component(s): AssertJ Core 3.11.1

```
assertj-core v3.11.1
COPYRIGHT: Copyright 2012-2018 the original author or authors.
LICENSE: https://github.com/joel-costigliola/assertj-core/blob/assertj-
core-3.11.0/LICENSE.md

                            Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.
```

Provider: Joel Costigliota / Component(s): AssertJ Core 3.12.1

```
assertj-core v3.11.1
COPYRIGHT: Copyright 2012-2018 the original author or authors.
LICENSE: https://github.com/joel-costigliola/assertj-core/blob/assertj-
core-3.11.0/LICENSE.md

                           Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Joel Costigliota / Component(s): AssertJ Core 3.12.2

```
assertj-core v3.11.1
COPYRIGHT: Copyright 2012-2018 the original author or authors.
LICENSE: https://github.com/joel-costigliola/assertj-core/blob/assertj-
core-3.11.0/LICENSE.md

                           Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
```

```
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
```

```
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Johnny Shelly / Component(s): BCrypt 1.1-14.el7

```
Copyright (c) 2002 Johnny Shelley All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of
conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of
conditions and the following disclaimer in the documentation and/or other
 materials provided
with the distribution.
```

```
3. Neither the name of the author nor any contributors may be used to
 endorse or promote
products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS''
 AND ANY EXPRESSED
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL THE
AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

Provider: Jon Schlinkert / Component(s): remarkable 1.7.1

```
remarkable 1.7.1
LICENSE and COPYRIGHT:

The MIT License (MIT)

Copyright (c) 2014-2016, Jon Schlinkert
Copyright (c) 2014 Jon Schlinkert, Vitaly Puzrin.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


-----
argparse 0.1.16
COPYRIGHT and LICENSE:
(The MIT License)

Copyright (C) 2012 by Vitaly Puzrin

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----
underscore.string 2.4.0
COPYRIGHT and LICENSE:
The MIT License

Copyright (c) 2011 Esa-Matti Suuronen esa-matti@suuronen.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

---
underscore 1.7.0
COPYRIGHT and LICENSE:
Copyright (c) 2009-2014 Jeremy Ashkenas, DocumentCloud and Investigative
Reporters & Editors

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
```

```
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.


----
autolinker 0.15.3
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2014 Gregory Jacobs (http://greg-jacobs.com)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Jonathan Halterman / Component(s): Failsafe 1.1.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
```

Provider: Jonathan Halterman / Component(s): Failsafe 2.0.1

```
                              Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
```

Provider: Jonathan Halterman / Component(s): Failsafe 2.4.4

```
net.jodah:failsafe
-------- Copyrights
  (no copyright notices found)


----------------------- Dependencies Grouped by License ------------
-------- Dependency
net.jodah:failsafe:2.4.4
-------- Copyrights
Copyright Jonathan Halterman and friends. Released under the [Apache 2.0
 license](https://github.com/failsafe-lib/failsafe/blob/master/LICENSE).
Copyright 2016 the original author or authors.
Copyright 2018 the original author or authors.
Copyright 2019 the original author or authors.
Copyright 2021 the original author or authors.

-------- Dependencies Summary
net.jodah:failsafe:2.4.4

-------- License used by Dependencies
SPDX:Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
```

```
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
```

Provider: Jonathan Halterman / Component(s): Failsafe 3.2.1

```


------------------------------- Top-level license --------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
------------------------------- Copyright notices --------------------------
/*
 * Copyright 2016 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
```

```
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License
 */
```

Provider: Jonathan Leibiusky / Component(s): Jedis 4.4.8

```
redis.clients:jedis
-------- Copyrights
Copyright (c) 2010 Jonathan Leibiusky
------- Licenses
MIT
---------separator---------
MIT License

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

---------separator---------
org.slf4j:slf4j-api
-------- Copyrights
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.
------- Licenses
License:  MIT


---------separator---------
com.google.code.gson:gson
-------- Copyrights
Copyright 2008 Google LLC
-------- Notices
  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
```

```
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
------- Licenses
Apache 2.0
---------separator---------
Apache 2.0 License

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
```

```
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

---------separator---------
org.apache.commons:commons-pool2
-------- Copyrights
Copyright 2001-2024 The Apache Software Foundation
-------- Notices
Apache Commons Pool
```

```
Copyright 2001-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
------- Licenses
Apache 2.0

---------separator---------
org.json:json
-------- Copyrights
Copyright (c) 2002 JSON.org
Copyright (c) 2018 JSON.org
Copyright (c) 2006 JSON.org
Copyright (c) 2015 JSON.org
Copyright (c) 2008 JSON.org
------- Licenses
Public Domain.
```

Provider: José Padilla / Component(s): PyJWT 1.7.1

```
PyJWT 1.7.1

Copyright (c) 2015 José Padilla

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

======================
4P Dependencies:


PYCA cryptography >= 1.4
COPYRIGHT: Copyright (c) Individual contributors.

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to cryptography are
 made
under the terms of *both* these licenses.  Oracle elects the Apache 2.0
 license.

The code used in the OpenSSL locking callback and OS random engine is
 derived
from CPython, and is licensed under the terms of the PSF License Agreement.
```

```
                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
```

```
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
```

```
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

*********



*********
1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   2.7.12 software in source or binary form and its associated
 documentation.
```

```
2. Subject to the terms and conditions of this License Agreement, PSF hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 2.7.12 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2016 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 2.7.12 alone or in any derivative
 version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 2.7.12 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
   agrees to include in any such work a brief summary of the changes made to
 Python
   2.7.12.

4. PSF is making Python 2.7.12 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 2.7.12 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.12
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.12, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 2.7.12, Licensee agrees
to be bound by the terms and conditions of this License Agreement.


---
flake8 3.6.0
COPYRIGHT and LICENSE:
Copyright (C) 2011-2013 Tarek Ziade <tarek@ziade.org>
Copyright (C) 2012-2016 Ian Cordasco <graffatcolmingov@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
```

```
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: josdejong / Component(s): jsonEditor 9.10.2

```
jsoneditor
-------- Copyrights
Copyright (C) 2011-2023 Jos de Jong

-------- Notices
JSON Editor
https://github.com/josdejong/jsoneditor

Copyright (C) 2011-2023 Jos de Jong


Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


-------- License
SPDX:Apache-2.0
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
ace-builds
-------- Copyrights
Copyright (c) 2010, Ajax.org B.V.

-------- Dependencies Summary
ace-builds

-------- License used by Dependencies
Copyright (c) 2010, Ajax.org B.V.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of Ajax.org B.V. nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL AJAX.ORG B.V. BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
uri-js
-------- Copyrights
Copyright 2011 Gary Court. All rights reserved.

-------- Dependencies Summary
uri-js

-------- License used by Dependencies
Copyright 2011 Gary Court. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY GARY COURT "AS IS" AND ANY EXPRESS OR IMPLIED
 WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL GARY COURT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
 BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
 ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are
 those of the authors and should not be interpreted as representing official
 policies, either expressed or implied, of Gary Court.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
jmespath
-------- Copyrights
Copyright 2014 James Saryerwinnie

-------- Dependencies Summary
jmespath

-------- License used by Dependencies
Copyright 2014 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
```

```
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
@sphinxxxx/color-conversion
-------- Copyrights
Copyright 2017-2019 Joudee (https://github.com/Joudee), Andreas Borgen
 (https://github.com/Sphinxxxx), Michael Jackson (https://github.com/
mjackson)

-------- Dependency
vanilla-picker
-------- Copyrights
Copyright 2017-2018 Andreas Borgen, Adam Brooks
Copyright 2017-2021 Andreas Borgen (https://github.com/Sphinxxxx), Adam
 Brooks (https://github.com/dissimulate)

-------- Dependencies Summary
@sphinxxxx/color-conversion
vanilla-picker

-------- License used by Dependencies
SPDX:ISC
Permission to use, copy, modify, and/or distribute this
software for any purpose with or without fee is hereby granted, provided
 that
the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL,
 DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
ajv
-------- Copyrights
Copyright (c) 2015-2017 Evgeny Poberezkin
Copyright 2011 Gary Court. All rights reserved.

-------- Dependency
fast-deep-equal
-------- Copyrights
Copyright (c) 2017 Evgeny Poberezkin

-------- Dependency
fast-json-stable-stringify
-------- Copyrights
```

```
Copyright (c) 2017 Evgeny Poberezkin
Copyright (c) 2013 James Halliday

-------- Dependency
javascript-natural-sort
-------- Copyrights
Copyright Jim Palmer (based on chunking idea from Dave Koelle, packaged by
 @khous of Bill4Time)

-------- Dependency
json-schema-traverse
-------- Copyrights
Copyright (c) 2017 Evgeny Poberezkin

-------- Dependency
json-source-map
-------- Copyrights
Copyright (c) 2017 Evgeny Poberezkin

-------- Dependency
mobius1-selectr
-------- Copyrights
Copyright (c) 2016-present, Karl Saunders (mobius1[at]gmx[dot]com).
Copyright 2016 Karl Saunders
Copyright (c) 2017 by Karl Saunders (http://codepen.io/Mobius1/project/
editor/ZnnrMO)

-------- Dependency
picomodal
-------- Copyrights
Copyright (c) 2012 James Frasca

-------- Dependency
punycode
-------- Copyrights
Copyright Mathias Bynens <https://mathiasbynens.be/>

-------- Dependencies Summary
ajv
fast-deep-equal
fast-json-stable-stringify
javascript-natural-sort
json-schema-traverse
json-source-map
mobius1-selectr
picomodal
punycode

-------- License used by Dependencies
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
jsonrepair
-------- Copyrights
Copyright (c) 2020-2021 by Jos de Jong

-------- Dependencies Summary
jsonrepair

-------- License used by Dependencies
The ISC License

Copyright (c) 2020-2021 by Jos de Jong

Permission to use, copy, modify, and/or distribute this software for any
 purpose with or without fee is hereby granted, provided that the above
 copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
 REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
 INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THIS SOFTWARE.
```

Provider: jruby.org / Component(s): Joni 2.1.41

```
MIT License

Copyright (c) 2017 JRuby Team

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: JS Foundation and other contributors / Component(s): jQuery 3.5.1

```
Copyright JS Foundation and other contributors, https://js.foundation/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

external/sizzle

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
```

```
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.
```

Provider: JS Foundation and other contributors / Component(s): lodash 4.17.10

```
The MIT License

Copyright JS Foundation and other contributors <https://js.foundation/>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <http://
underscorejs.org/>

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code displayed within the prose of the
documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

Files located in the node_modules and vendor directories are externally
maintained libraries used by this software which have their own
licenses; we recommend you read them, as their terms may differ from the
terms above.
```

Provider: JS Foundation and other contributors / Component(s): lodash 4.17.11

```
The MIT License
```

```
Copyright JS Foundation and other contributors <https://js.foundation/>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <http://
underscorejs.org/>

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code displayed within the prose of the
documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

Files located in the node_modules and vendor directories are externally
maintained libraries used by this software which have their own
licenses; we recommend you read them, as their terms may differ from the
terms above.
```

Provider: JS Foundation and other contributors / Component(s): Lodash-es 4.17.10

```
The MIT License

Copyright JS Foundation and other contributors <https://js.foundation/>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <http://
underscorejs.org/>

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash
```

```
The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code displayed within the prose of the
documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

Files located in the node_modules and vendor directories are externally
maintained libraries used by this software which have their own
licenses; we recommend you read them, as their terms may differ from the
terms above.
```

Provider: JSON.org / Component(s): JSON 20201115

```
Copyright (c) 2002 JSON.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

The Software shall be used for Good, not Evil.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: JSON.org / Component(s): JSON in Java 20201115

```
Copyright (c) 2002 JSON.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

The Software shall be used for Good, not Evil.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: JSON.org / Component(s): JSON Smart 1.2

```
1. Include prominent notice with modified files stating that such files were
 modified.

2. Include the following License ONCE in the documentation even if there are
 multiple products licensed under the license:
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
```

```
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
```

```
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
```

```
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: jsoup.org / Component(s): jsoup 1.12.1

```
jsoup License
```

```
The jsoup code-base (including source and compiled packages) are distributed
 under the open source MIT license as described below.

The MIT License

Copyright (c) 2009-2019 Jonathan Hedley <jonathan@hedley.net>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: jsoup.org / Component(s): jsoup 1.8.3

```
Attribution:  Include the following verbatim in the documentation:

“jsoup License

The jsoup code-base (include source and compiled packages) are distributed
 under the open source MIT license as described below.
The MIT License

Copyright © 2009 - 2014 Jonathan Hedley (jonathan@hedley.net)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.”
```

Provider: JSQLParser / Component(s): JSQLParser 4.6

```
###
# #%L
# JSQLParser library
# %%
# Copyright (C) 2004 - 2019 JSQLParser
# %%
# Dual licensed under GNU LGPL 2.1 or Apache License 2.0
# #L%
###
dual_lgpl_ap2=Dual License GNU LGPL 2.1 or Apache License 2.0

Oracle elects the Apache License 2.0
================================================================

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: JSR305 expert group / Component(s): JSR305 3.0.2

```
> Copyright (c) JSR305 expert group
> All rights reserved.
>
> Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
>
>     Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
>     Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
>
> THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Julian R Seward / Component(s): bzip2 1.0.8

```
This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2019 Julian R Seward.  All
rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software.  If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019
```

Provider: Julien Danjou / Component(s): tenacity 9.0.0

```
Copyright: Julien Danjou
=== Source URL: https://github.com/jd/tenacity/tree/9.0.0
License: Apache 2.0

 ./LICENSE

                                 Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: JUnit Team / Component(s): junit-jupiter-api 5.9.1

```
------------------------------- Top-level license --------------------------
Eclipse Public License - v 2.0
```

```
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

### 1. Definitions

"Contribution" means:
* **a)** in the case of the initial Contributor, the initial content
 Distributed under this Agreement, and
* **b)** in the case of each subsequent Contributor:
 * **i)** changes to the Program, and
 * **ii)** additions to the Program;
where such changes and/or additions to the Program originate from and are
 Distributed by that particular Contributor. A Contribution "originates"
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do not
 include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions Distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement or
 any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
 form, that is based on (or derived from) the Program and for which the
 editorial revisions, annotations, elaborations, or other modifications
 represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
 results from an addition to, deletion from, or modification of the contents
 of the Program, including, for purposes of clarity any new file in Source
 Code form that contains any contents of the Program. Modified Works shall
 not include works that contain only declarations, interfaces, types,
 classes, structures, or files of the Program solely in each case in
 order to link to, bind by name, or subclass the Program or Modified Works
 thereof.

"Distribute" means the acts of **a)** distributing or **b)** making
 available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
 modifications, including but not limited to software source code,
 documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version
 2.0, or any later versions of that license, including any exceptions or
 additional permissions as identified by the initial Contributor.

### 2. Grant of Rights

**a)** Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free copyright license
 to reproduce, prepare Derivative Works of, publicly display, publicly
 perform, Distribute and sublicense the Contribution of such Contributor, if
 any, and such Derivative Works.
```

```
**b)** Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free patent license
 under Licensed Patents to make, use, sell, offer to sell, import and
 otherwise transfer the Contribution of such Contributor, if any, in Source
 Code or other form. This patent license shall apply to the combination
 of the Contribution and the Program if, at the time the Contribution is
 added by the Contributor, such addition of the Contribution causes such
 combination to be covered by the Licensed Patents. The patent license shall
 not apply to any other combinations which include the Contribution. No
 hardware per se is licensed hereunder.

**c)** Recipient understands that although each Contributor grants the
 licenses to its Contributions set forth herein, no assurances are provided
 by any Contributor that the Program does not infringe the patent or
 other intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to Distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

**d)** Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

**e)** Notwithstanding the terms of any Secondary License, no Contributor
 makes additional grants to any Recipient (other than those set forth in
 this Agreement) as a result of such Recipient's receipt of the Program
 under the terms of a Secondary License (if permitted under the terms of
 Section 3).

### 3. Requirements

**3.1** If a Contributor Distributes the Program in any form, then:

* **a)** the Program must also be made available as Source Code, in
 accordance with section 3.2, and the Contributor must accompany the Program
 with a statement that the Source Code for the Program is available under
 this Agreement, and informs Recipients how to obtain it in a reasonable
 manner on or through a medium customarily used for software exchange; and

* **b)** the Contributor may Distribute the Program under a license
 different than this Agreement, provided that such license:
 * **i)** effectively disclaims on behalf of all other Contributors all
 warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose;
 * **ii)** effectively excludes on behalf of all other Contributors all
 liability for damages, including direct, indirect, special, incidental and
 consequential damages, such as lost profits;
 * **iii)** does not attempt to limit or alter the recipients' rights in the
 Source Code under section 3.2; and
 * **iv)** requires any subsequent distribution of the Program by any party
 to be under a license that satisfies the requirements of this section 3.

**3.2** When the Program is Distributed as Source Code:

* **a)** it must be made available under this Agreement, or if the Program
 **(i)** is combined with other material in a separate file or files made
 available under a Secondary License, and **(ii)** the initial Contributor
 attached to the Source Code the notice described in Exhibit A of this
```

```
 Agreement, then the Program may be made available under the terms of such
 Secondary Licenses, and
* **b)** a copy of this Agreement must be included with each copy of the
 Program.

**3.3** Contributors may not remove or alter any copyright, patent,
 trademark, attribution notices, disclaimers of warranty, or limitations
 of liability ("notices") contained within the Program from any copy of the
 Program which they Distribute, provided that Contributors may add their own
 appropriate notices.

### 4. Commercial Distribution

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: **a)** promptly notify the Commercial Contributor in
 writing of such claim, and **b)** allow the Commercial Contributor to
 control, and cooperate with the Commercial Contributor in, the defense
 and any related settlement negotiations. The Indemnified Contributor may
 participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

### 5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
 PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED
 INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-
INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
 Recipient is solely responsible for determining the appropriateness of
 using and distributing the Program and assumes all risks associated with
 its exercise of rights under this Agreement, including but not limited to
 the risks and costs of program errors, compliance with applicable laws,
 damage to or loss of data, programs or equipment, and unavailability or
 interruption of operations.

### 6. Disclaimer of Liability

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE
 ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS),
```

```
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
 GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

### 7. General

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be Distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to Distribute
 the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no rights or licenses to the intellectual property of any
 Contributor under this Agreement, whether expressly, by implication,
 estoppel or otherwise. All rights in the Program not expressly granted
 under this Agreement are reserved. Nothing in this Agreement is intended
 to be enforceable by any entity that is not a Contributor or Recipient. No
 third-party beneficiary rights are created under this Agreement.

#### Exhibit A - Form of Secondary Licenses Notice

> "This Source Code may also be made available under the following Secondary
 Licenses when the conditions for such availability set forth in the Eclipse
 Public License, v. 2.0 are satisfied: {name license(s), version(s), and
 exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not
 sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
```

```
You may add additional accurate notices of copyright ownership.
------------------------------- Copyright notices --------------------------
Copyright (C) JUnit Team

Copyright 2015-2022 the original author or authors.

All rights reserved. This program and the accompanying materials are
made available under the terms of the Eclipse Public License v2.0 which
accompanies this distribution and is available at
https://www.eclipse.org/legal/epl-v20.html

---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 1
org.apiguardian:apiguardian-api
== License Type
Apache License Version 2.0
== Copyright Notices
Copyright (C) apiguardian-team
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
org.junit.platform:junit-platform-commons
== License Type
EPL 2.0
== Copyright Notices
Copyright (C) JUnit Team
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
org.opentest4j:opentest4j
== License Type
Apache 2.0
== Copyright Notices
Copyright 2015-2018 the original author or authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------(separator)---------------------------------
== LICENSES
.
== Text of license (EPL 2.0)
Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE (“AGREEMENT”). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

### 1. Definitions

“Contribution” means:
* **a)** in the case of the initial Contributor, the initial content
 Distributed under this Agreement, and
* **b)** in the case of each subsequent Contributor:
 * **i)** changes to the Program, and
 * **ii)** additions to the Program;
```

```
where such changes and/or additions to the Program originate from and are
 Distributed by that particular Contributor. A Contribution "originates"
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do not
 include changes or additions to the Program that are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions Distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement or
 any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
 form, that is based on (or derived from) the Program and for which the
 editorial revisions, annotations, elaborations, or other modifications
 represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
 results from an addition to, deletion from, or modification of the contents
 of the Program, including, for purposes of clarity any new file in Source
 Code form that contains any contents of the Program. Modified Works shall
 not include works that contain only declarations, interfaces, types,
 classes, structures, or files of the Program solely in each case in
 order to link to, bind by name, or subclass the Program or Modified Works
 thereof.

"Distribute" means the acts of **a)** distributing or **b)** making
 available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
 modifications, including but not limited to software source code,
 documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version
 2.0, or any later versions of that license, including any exceptions or
 additional permissions as identified by the initial Contributor.

### 2. Grant of Rights

**a)** Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free copyright license
 to reproduce, prepare Derivative Works of, publicly display, publicly
 perform, Distribute and sublicense the Contribution of such Contributor, if
 any, and such Derivative Works.

**b)** Subject to the terms of this Agreement, each Contributor hereby
 grants Recipient a non-exclusive, worldwide, royalty-free patent license
 under Licensed Patents to make, use, sell, offer to sell, import and
 otherwise transfer the Contribution of such Contributor, if any, in Source
 Code or other form. This patent license shall apply to the combination
 of the Contribution and the Program if, at the time the Contribution is
 added by the Contributor, such addition of the Contribution causes such
 combination to be covered by the Licensed Patents. The patent license shall
 not apply to any other combinations which include the Contribution. No
 hardware per se is licensed hereunder.

**c)** Recipient understands that although each Contributor grants the
 licenses to its Contributions set forth herein, no assurances are provided
```

```
 by any Contributor that the Program does not infringe the patent or
 other intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to Distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

**d)** Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

**e)** Notwithstanding the terms of any Secondary License, no Contributor
 makes additional grants to any Recipient (other than those set forth in
 this Agreement) as a result of such Recipient's receipt of the Program
 under the terms of a Secondary License (if permitted under the terms of
 Section 3).

### 3. Requirements

**3.1** If a Contributor Distributes the Program in any form, then:

* **a)** the Program must also be made available as Source Code, in
 accordance with section 3.2, and the Contributor must accompany the Program
 with a statement that the Source Code for the Program is available under
 this Agreement, and informs Recipients how to obtain it in a reasonable
 manner on or through a medium customarily used for software exchange; and

* **b)** the Contributor may Distribute the Program under a license
 different than this Agreement, provided that such license:
 * **i)** effectively disclaims on behalf of all other Contributors all
 warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose;
 * **ii)** effectively excludes on behalf of all other Contributors all
 liability for damages, including direct, indirect, special, incidental and
 consequential damages, such as lost profits;
 * **iii)** does not attempt to limit or alter the recipients' rights in the
 Source Code under section 3.2; and
 * **iv)** requires any subsequent distribution of the Program by any party
 to be under a license that satisfies the requirements of this section 3.

**3.2** When the Program is Distributed as Source Code:

* **a)** it must be made available under this Agreement, or if the Program
 **(i)** is combined with other material in a separate file or files made
 available under a Secondary License, and **(ii)** the initial Contributor
 attached to the Source Code the notice described in Exhibit A of this
 Agreement, then the Program may be made available under the terms of such
 Secondary Licenses, and
* **b)** a copy of this Agreement must be included with each copy of the
 Program.

**3.3** Contributors may not remove or alter any copyright, patent,
 trademark, attribution notices, disclaimers of warranty, or limitations
 of liability ("notices") contained within the Program from any copy of the
 Program which they Distribute, provided that Contributors may add their own
 appropriate notices.

### 4. Commercial Distribution
```

```
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: **a)** promptly notify the Commercial Contributor in
 writing of such claim, and **b)** allow the Commercial Contributor to
 control, and cooperate with the Commercial Contributor in, the defense
 and any related settlement negotiations. The Indemnified Contributor may
 participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

### 5. No Warranty

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
 PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED
 INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-
INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
 Recipient is solely responsible for determining the appropriateness of
 using and distributing the Program and assumes all risks associated with
 its exercise of rights under this Agreement, including but not limited to
 the risks and costs of program errors, compliance with applicable laws,
 damage to or loss of data, programs or equipment, and unavailability or
 interruption of operations.

### 6. Disclaimer of Liability

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE
 ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS),
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
 GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

### 7. General

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
```

```
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be Distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to Distribute
 the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no rights or licenses to the intellectual property of any
 Contributor under this Agreement, whether expressly, by implication,
 estoppel or otherwise. All rights in the Program not expressly granted
 under this Agreement are reserved. Nothing in this Agreement is intended
 to be enforceable by any entity that is not a Contributor or Recipient. No
 third-party beneficiary rights are created under this Agreement.

#### Exhibit A - Form of Secondary Licenses Notice

> “This Source Code may also be made available under the following Secondary
 Licenses when the conditions for such availability set forth in the Eclipse
 Public License, v. 2.0 are satisfied: {name license(s), version(s), and
 exceptions or additional permissions here}.”

Simply including a copy of this Agreement, including this Exhibit A is not
 sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

== Text of license (Apache License Version 2.0)
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: JUnit Team / Component(s): junit-jupiter-params 5.9.3

```
Eclipse Public License - v 2.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE (“AGREEMENT”). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS
“Contribution” means:

a) in the case of the initial Contributor, the initial content Distributed
 under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 Distributed by that particular Contributor. A Contribution “originates”
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do not
 include changes or additions to the Program that are not Modified Works.
“Contributor” means any person or entity that Distributes the Program.

“Licensed Patents” mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

“Program” means the Contributions Distributed in accordance with this
 Agreement.

“Recipient” means anyone who receives the Program under this Agreement or
 any Secondary License (as applicable), including Contributors.

“Derivative Works” shall mean any work, whether in Source Code or other
 form, that is based on (or derived from) the Program and for which the
 editorial revisions, annotations, elaborations, or other modifications
 represent, as a whole, an original work of authorship.

“Modified Works” shall mean any work in Source Code or other form that
 results from an addition to, deletion from, or modification of the contents
 of the Program, including, for purposes of clarity any new file in Source
 Code form that contains any contents of the Program. Modified Works shall
 not include works that contain only declarations, interfaces, types,
 classes, structures, or files of the Program solely in each case in
 order to link to, bind by name, or subclass the Program or Modified Works
 thereof.

“Distribute” means the acts of a) distributing or b) making available in any
 manner that enables the transfer of a copy.

“Source Code” means the form of a Program preferred for making
 modifications, including but not limited to software source code,
 documentation source, and configuration files.

“Secondary License” means either the GNU General Public License, Version
 2.0, or any later versions of that license, including any exceptions or
 additional permissions as identified by the initial Contributor.

2. GRANT OF RIGHTS
```

```
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 Distribute and sublicense the Contribution of such Contributor, if any, and
 such Derivative Works.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in Source Code
 or other form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to Distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
e) Notwithstanding the terms of any Secondary License, no Contributor makes
 additional grants to any Recipient (other than those set forth in this
 Agreement) as a result of such Recipient's receipt of the Program under the
 terms of a Secondary License (if permitted under the terms of Section 3).
3. REQUIREMENTS
3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance
 with section 3.2, and the Contributor must accompany the Program with a
 statement that the Source Code for the Program is available under this
 Agreement, and informs Recipients how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange; and
b) the Contributor may Distribute the Program under a license different than
 this Agreement, provided that such license:
i) effectively disclaims on behalf of all other Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all other Contributors all liability
 for damages, including direct, indirect, special, incidental and
 consequential damages, such as lost profits;
iii) does not attempt to limit or alter the recipients' rights in the Source
 Code under section 3.2; and
iv) requires any subsequent distribution of the Program by any party to be
 under a license that satisfies the requirements of this section 3.
3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i)
 is combined with other material in a separate file or files made available
 under a Secondary License, and (ii) the initial Contributor attached to the
 Source Code the notice described in Exhibit A of this Agreement, then the
 Program may be made available under the terms of such Secondary Licenses,
 and
b) a copy of this Agreement must be included with each copy of the Program.
```

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ('notices') contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL
If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the

```
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be Distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to Distribute
 the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no rights or licenses to the intellectual property of any
 Contributor under this Agreement, whether expressly, by implication,
 estoppel or otherwise. All rights in the Program not expressly granted
 under this Agreement are reserved. Nothing in this Agreement is intended
 to be enforceable by any entity that is not a Contributor or Recipient. No
 third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice
"This Source Code may also be made available under the following Secondary
 Licenses when the conditions for such availability set forth in the Eclipse
 Public License, v. 2.0 are satisfied: {name license(s), version(s), and
 exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A is not
 sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.
```

Provider: Project Jupyter Contributors / Component(s): jupyterlab 1.2.16

```
------------------------------- Top-level license --------------------------
Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Semver File License
===================

The semver.py file is from https://github.com/podhmo/python-semver
which is licensed under the "MIT" license.  See the semver.py file for
 details.




MIT License

Copyright (c) 2016 podhmo

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.

---------------------------- Fourth-party information ----------------------
=== ==========================================================================

    == NAME OF DEPENDENCY 1
    . @phosphor/coreutils@1.3.1
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors


Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 2
    . @phosphor/widgets@1.9.3
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
```

```
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 3
    . @phosphor/commands@1.7.2
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 4
    . @phosphor/disposable@1.3.1
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 5
    . @phosphor/properties@1.1.3
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors


Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
```

```
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 6
    . @phosphor/signaling@1.3.1
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------
(JavaScript)---------------------------------
```

```
    == NAME OF DEPENDENCY 7
    . ajv@6.12.6
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT)

Copyright (c) 2015-2017 Evgeny Poberezkin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 8
    . json5@2.1.3
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2012-2018 Aseem Kishore, and [others].

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

[others]: https://github.com/json5/json5/contributors


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 9
    . minimist@1.2.5
    == License Type
    . MIT
    == Copyright Notices And License
    . Copyright (c) 2020 James Halliday

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 10
    . moment@2.29.1
    == License Type
    . MIT
    == Copyright Notices And License
    . Copyright (c) JS Foundation and other contributors

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:
```

```
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 11
    . path-posix@1.0.0
    == License Type
    . ISC
    == Copyright Notices And License
    . Copyright Joyent, Inc. and other Node contributors.

Node's license follows:

====

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

====


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 12
    . url-parse@1.4.7
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT)

Copyright (c) 2015 Unshift.io, Arnout Kazemier,  the Contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 13
    . @phosphor/algorithm@1.2.0
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------
(JavaScript)---------------------------------
```

```
    == NAME OF DEPENDENCY 14
    . react@16.8.6
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 15
    . @phosphor/messaging@1.3.0
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
```

```
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 16
    . @phosphor/dragdrop@1.4.1
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 17
    . @phosphor/virtualdom@1.2.0
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 18
    . codemirror@5.47.0
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (C) 2017 by Marijn Haverbeke <marijnh@gmail.com> and others

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


--------------------------------
(JavaScript)---------------------------------
```

```
    == NAME OF DEPENDENCY 19
    . es6-promise@4.2.8
    == License Type
    . MIT
    == Copyright Notices And License
    . Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and
 contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 20
    . lodash.escape@4.0.1
    == License Type
    . MIT
    == Copyright Notices And License
    . Copyright jQuery Foundation and other contributors <https://
jquery.org/>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <http://
underscorejs.org/>

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
```

```
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code displayed within the prose of the
documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

Files located in the node_modules and vendor directories are externally
maintained libraries used by this software which have their own
licenses; we recommend you read them, as their terms may differ from the
terms above.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 21
    . marked@0.7.0
    == License Type
    . MIT
    == Copyright Notices And License
    . # License information

## Contribution License Agreement

If you contribute code to this project, you are implicitly allowing your
 code
to be distributed under the MIT license. You are also implicitly verifying
 that
all code is your original work. `</legalese>`

## Marked

Copyright (c) 2011-2018, Christopher Jeffrey (https://github.com/chjj/)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

## Markdown

Copyright © 2004, John Gruber
http://daringfireball.net/
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
* Neither the name "Markdown" nor the names of its contributors may be used
 to endorse or promote products derived from this software without specific
 prior written permission.

This software is provided by the copyright holders and contributors "as is"
 and any express or implied warranties, including, but not limited to, the
 implied warranties of merchantability and fitness for a particular purpose
 are disclaimed. In no event shall the copyright owner or contributors
 be liable for any direct, indirect, incidental, special, exemplary, or
 consequential damages (including, but not limited to, procurement of
 substitute goods or services; loss of use, data, or profits; or business
 interruption) however caused and on any theory of liability, whether in
 contract, strict liability, or tort (including negligence or otherwise)
 arising in any way out of the use of this software, even if advised of the
 possibility of such damage.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 22
    . @blueprintjs/core@3.35.0
    == License Type
    . Apache-2.0
    == Copyright Notices And License
© 2014-2020 Palantir Technologies
    .                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
```

```
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
```

```
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
```

```
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 23
    . @blueprintjs/select@3.14.3
    == License Type
    . Apache-2.0
    == Copyright Notices And License
© 2014-2020 Palantir Technologies
    .                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 24
    . typestyle@2.1.0
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2016 typestyle

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 25
    . @phosphor/domutils@1.1.4
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 26
    . xterm@3.13.2
    == License Type
    . MIT
    == Copyright Notices And License
    . Copyright (c) 2017-2019, The xterm.js authors (https://github.com/
xtermjs/xterm.js)
Copyright (c) 2014-2016, SourceLair Private Company (https://
www.sourcelair.com)
Copyright (c) 2012-2013, Christopher Jeffrey (https://github.com/chjj/)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 27
    . react-dom@16.8.6
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 28
    . react-highlighter@0.4.3
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT)

Copyright (c) 2015 Helior Colorado

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 29
    . react-json-tree@0.11.2
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT)

Copyright (c) 2015 Shusaku Uesugi, (c) 2016-present Alexander Kuznetsov


Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 30
    . @types/react@16.8.25
    == License Type
```

```
    . MIT
    == Copyright Notices And License
    .     MIT License

    Copyright (c) Microsoft Corporation. All rights reserved.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 31
    . sanitize-html@1.20.1
    == License Type
    . MIT
    == Copyright Notices And License
    . Copyright (c) 2013, 2014, 2015 P'unk Avenue LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 32
    . react-paginate@6.5.0
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT)

Copyright (c) 2016 Adèle Delamarche

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 33
    . semver@6.3.0
    == License Type
    . ISC
    == Copyright Notices And License
    . The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 34
    . @phosphor/datagrid@0.1.11
    == License Type
```

```
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 35
    . @phosphor/application@1.7.3
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 36
    . font-awesome@4.7.0
    == License Type
    . (OFL-1.1 AND MIT)
    == Copyright Notices And License
    . Copyright Fonticons, Inc
Oracle elects MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 37
    . node-fetch@2.6.1
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT)

Copyright (c) 2016 David Frank

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 38
    . ws@7.3.1
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT)

Copyright (c) 2011 Einar Otto Stangvik <einaros@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 39
    . @nteract/transform-vdom@4.0.15
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2016, nteract contributors
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




--------------------------------(Python)---------------------------------

    == NAME OF DEPENDENCY 1
    . Jinja2
    == License Type
    . BSD License
    == Copyright Notices And License
    . Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------(Python)---------------------------------

    == NAME OF DEPENDENCY 2
    . jupyterlab-server
    == License Type
    . BSD License
    == Copyright Notices And License
    . Copyright (c) 2015-2017, Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


JSON Minify File License
========================

The json_minify.py file is from
https://github.com/getify/JSON.minify/tree/python
which is licensed under the "MIT" license.  See the json_minify.py file for
details.

The MIT License (MIT)

Copyright © 2020 Kyle Simpson <getify@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the “Software”), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
```

```
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.




--------------------------------(Python)---------------------------------

    == NAME OF DEPENDENCY 3
    . notebook
    == License Type
    . BSD License
    == Copyright Notices And License
    . This project is licensed under the terms of the Modified BSD License
(also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
other materials provided with the distribution.

Neither the name of the Jupyter Development Team nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## About the Jupyter Development Team
```

```
The Jupyter Development Team is the set of all contributors to the Jupyter
 project.
This includes all of the Jupyter subprojects.

The core team that coordinates development on GitHub can be found here:
https://github.com/jupyter/.

## Our Copyright Policy

Jupyter uses a shared copyright model. Each contributor maintains copyright
over their contributions to Jupyter. But, it is important to note that these
contributions are typically only changes to the repositories. Thus, the
 Jupyter
source code, in its entirety is not the copyright of any single person or
institution.  Instead, it is the collective copyright of the entire Jupyter
Development Team.  If individual contributors want to maintain a record of
 what
changes/contributions they have specific copyright on, they should indicate
their copyright in the commit message of the change, when they commit the
change to one of the Jupyter repositories.

With this in mind, the following banner should be used in any source code
 file
to indicate the copyright and license terms:

    # Copyright (c) Jupyter Development Team.
    # Distributed under the terms of the Modified BSD License.


--------------------------------(Python)---------------------------------

    == NAME OF DEPENDENCY 4
    . tornado
    == License Type
    . Apache Software License
    == Copyright Notices And License
    . Copyright The Tornado Authors


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


--------------------------------
(JavaScript)---------------------------------

  == NAME OF DEPENDENCY
    . react@16.8.6
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) Facebook, Inc. and its affiliates.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY
    . react-dom@16.8.6
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY
    . plotlywidget@4.7.1
    == License Type
    . MIT
```

```
    == Copyright Notices And License
Copyright © 2020 Plotly
    . This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY
    . jupyterlab-plotly@4.7.1
    == License Type
    . MIT
    == Copyright Notices And License
Copyright © 2020 Plotly
    . This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY
    . jupyter-leaflet@0.11.7
    == License Type
    . MIT
    == Copyright Notices And License
Copyright (c) Jupyter Development Team.

    . This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY
    . es6-promise@4.2.8
    == License Type
    . MIT
    == Copyright Notices And License
    . Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and
 contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY
    . @lckr/jupyterlab_variableinspector@0.3.0
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2018 lckr

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY
    . @bokeh/jupyter_bokeh@1.1.1
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2012 - 2019, Anaconda, Inc., and Bokeh Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
```

```
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of Anaconda nor the names of any contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Jython / Component(s): Jython 2.7.0

```
A. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING JYTHON
-----------------

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Jython") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Jython alone
or in any derivative version, provided, however, that PSF's License
Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2007
Python Software Foundation; All Rights Reserved" are retained in
Jython alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Jython or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Jython.

4. PSF is making Jython available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF JYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF JYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING JYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
```

```
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Jython, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

Jython 2.0, 2.1 License
-----------------

Copyright (c) 2000-2009 Jython Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 - Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 - Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the distribution.

 - Neither the name of the Jython Developers nor the names of
   its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




JPython 1.1.x Software License.
-----------------


____________________________________________________________________________

IMPORTANT: PLEASE READ THE FOLLOWING AGREEMENT CAREFULLY.

BY CLICKING ON THE "ACCEPT" BUTTON WHERE INDICATED, OR BY INSTALLING,
COPYING OR OTHERWISE USING THE SOFTWARE, YOU ARE DEEMED TO HAVE AGREED TO
THE TERMS AND CONDITIONS OF THIS AGREEMENT.


____________________________________________________________________________

JPython version 1.1.x

  1. This LICENSE AGREEMENT is between the Corporation for National Research
```

```
   Initiatives, having an office at 1895 Preston White Drive, Reston, VA
   20191 ("CNRI"), and the Individual or Organization ("Licensee")
   accessing and using JPython version 1.1.x in source or binary form and
   its associated documentation as provided herein ("Software").

2. Subject to the terms and conditions of this License Agreement, CNRI
   hereby grants Licensee a non-exclusive, non-transferable, royalty-free,
   world-wide license to reproduce, analyze, test, perform and/or display
   publicly, prepare derivative works, distribute, and otherwise use the
   Software alone or in any derivative version, provided, however, that
   CNRI's License Agreement and CNRI's notice of copyright, i.e.,
   "Copyright ©1996-1999 Corporation for National Research Initiatives;
   All Rights Reserved" are both retained in the Software, alone or in any
   derivative version prepared by Licensee.

   Alternatively, in lieu of CNRI's License Agreement, Licensee may
   substitute the following text (omitting the quotes), provided, however,
   that such text is displayed prominently in the Software alone or in any
   derivative version prepared by Licensee: "JPython (Version 1.1.x) is
   made available subject to the terms and conditions in CNRI's License
   Agreement. This Agreement may be located on the Internet using the
   following unique, persistent identifier (known as a handle):
   1895.22/1006. The License may also be obtained from a proxy server on
   the Web using the following URL: http://hdl.handle.net/1895.22/1006."

3. In the event Licensee prepares a derivative work that is based on or
   incorporates the Software or any part thereof, and wants to make the
   derivative work available to the public as provided herein, then
   Licensee hereby agrees to indicate in any such work, in a prominently
   visible way, the nature of the modifications made to CNRI's Software.

4. Licensee may not use CNRI trademarks or trade name, including JPython
   or CNRI, in a trademark sense to endorse or promote products or
   services of Licensee, or any third party. Licensee may use the mark
   JPython in connection with Licensee's derivative versions that are
   based on or incorporate the Software, but only in the form
   "JPython-based _____," or equivalent.

5. CNRI is making the Software available to Licensee on an "AS IS" basis.
   CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY
   OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY
   REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY
   PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE
   ANY THIRD PARTY RIGHTS.

6. CNRI SHALL NOT BE LIABLE TO LICENSEE OR OTHER USERS OF THE SOFTWARE FOR
   ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF
   USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF. SOME STATES DO NOT
   ALLOW THE LIMITATION OR EXCLUSION OF LIABILITY SO THE ABOVE DISCLAIMER
   MAY NOT APPLY TO LICENSEE.

7. This License Agreement may be terminated by CNRI (i) immediately upon
   written notice from CNRI of any material breach by the Licensee, if the
   nature of the breach is such that it cannot be promptly remedied; or
   (ii) sixty (60) days following notice from CNRI to Licensee of a
   material remediable breach, if Licensee has not remedied such breach
   within that sixty-day period.

8. This License Agreement shall be governed by and interpreted in all
   respects by the law of the State of Virginia, excluding conflict of law
   provisions. Nothing in this Agreement shall be deemed to create any
   relationship of agency, partnership, or joint venture between CNRI and
   Licensee.
```

```
  9. By clicking on the "ACCEPT" button where indicated, or by installing,
     copying or otherwise using the Software, Licensee agrees to be bound by
     the terms and conditions of this License Agreement.

                                [ACCEPT BUTTON]

B. HISTORY OF THE SOFTWARE
-----------------

JPython was created in late 1997 by Jim Hugunin. Jim was also the
primary developer while he was at CNRI. In February 1999 Barry Warsaw
took over as primary developer and released JPython version 1.1.

In October 2000 Barry helped move the software to SourceForge
where it was renamed to Jython. Jython 2.0 and 2.1 were developed
under the Jython specific license below.

From the 2.2 release on, Jython contributors have signed
Python Software Foundation contributor agreements and releases are
covered under the Python Software Foundation license version 2.

The standard library is covered by the Python Software Foundation
license as well. See the Lib/LICENSE file for details.

The zxJDBC package was written by Brian Zimmer and originally licensed
under the GNU Public License.  The package is now covered by the Jython
Software License.

The command line interpreter is covered by the Apache Software
License. See the org/apache/LICENSE file for details.
```

K to N

Provider: Kenneth Reitz / Component(s): certifi 2016.2.28

```
The Source Code of this JAR ____________ {development to identify the
 JAR that contains the MPL Bundle} is available under the Mozilla Public
 License, v. 2.0 and is located at _________ {development must provide a
 link to where Oracle makes the source form available under the MPL 2.0}. If
 a copy of the MPL was not distributed with this file, You can obtain one at
 http://mozilla.org/MPL/2.0/.
Software distributed under the License is distributed on an "AS IS" basis,
 WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 for the specific language governing rights and limitations under the
 License.

Mozilla Public License, version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.
1.3. “Contribution”
means Covered Software of a particular Contributor.
1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
```

```
1.5. “Incompatible With Secondary Licenses”
means
a. that the initial Contributor has attached the notice described in Exhibit
 B to the Covered Software; or
b. that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
1.6. “Executable Form”
means any form of the work other than Source Code Form.
1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. “License”
means this document.
1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. “Modifications”
means any of the following:
a. any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or
b. any new file in Source Code Form that contains any Covered Software.
1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form”
means the form of the work preferred for making modifications.
1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
a. under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
b. under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
```

```
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:
a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party's
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
c. under Patent Claims infringed by Covered Software in the absence of its
 Contributions.
This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
a. such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and
b. You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
```

```
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
```

```
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
```

Provider: Kenneth Reitz / Component(s): certifi 2016.9.26

```
The Source Code of this JAR ____________ {development to identify the
 JAR that contains the MPL Bundle} is available under the Mozilla Public
 License, v. 2.0 and is located at _________ {development must provide a
 link to where Oracle makes the source form available under the MPL 2.0}. If
 a copy of the MPL was not distributed with this file, You can obtain one at
 http://mozilla.org/MPL/2.0/.
Software distributed under the License is distributed on an "AS IS" basis,
 WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
```

```
 for the specific language governing rights and limitations under the
 License.

Mozilla Public License, version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.
1.3. “Contribution”
means Covered Software of a particular Contributor.
1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. “Incompatible With Secondary Licenses”
means
a. that the initial Contributor has attached the notice described in Exhibit
 B to the Covered Software; or
b. that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
1.6. “Executable Form”
means any form of the work other than Source Code Form.
1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. “License”
means this document.
1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. “Modifications”
means any of the following:
a. any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or
b. any new file in Source Code Form that contains any Covered Software.
1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form”
means the form of the work preferred for making modifications.
1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
```

```
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
a. under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
b. under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:
a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party's
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
c. under Patent Claims infringed by Covered Software in the absence of its
 Contributions.
This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
a. such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and
b. You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
```

```
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
```

```
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
```

```
You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
```

Provider: Kenneth Reitz / Component(s): certifi 2017.4.17

```
The Source Code of this JAR ____________ {development to identify the
 JAR that contains the MPL Bundle} is available under the Mozilla Public
 License, v. 2.0 and is located at _________ {development must provide a
 link to where Oracle makes the source form available under the MPL 2.0}. If
 a copy of the MPL was not distributed with this file, You can obtain one at
 http://mozilla.org/MPL/2.0/.
Software distributed under the License is distributed on an "AS IS" basis,
 WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 for the specific language governing rights and limitations under the
 License.

Mozilla Public License, version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.
1.3. “Contribution”
means Covered Software of a particular Contributor.
1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. “Incompatible With Secondary Licenses”
means
a. that the initial Contributor has attached the notice described in Exhibit
 B to the Covered Software; or
b. that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
1.6. “Executable Form”
means any form of the work other than Source Code Form.
1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. “License”
means this document.
1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. “Modifications”
means any of the following:
a. any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or
b. any new file in Source Code Form that contains any Covered Software.
1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
```

```
1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form”
means the form of the work preferred for making modifications.
1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
a. under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
b. under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:
a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
c. under Patent Claims infringed by Covered Software in the absence of its
 Contributions.
This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
```

```
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
a. such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and
b. You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
```

```
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions
```

```
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
```

Provider: Kenneth Reitz / Component(s): certifi 2018.04.16

```
The Source Code of this JAR ____________ {development to identify the
 JAR that contains the MPL Bundle} is available under the Mozilla Public
 License, v. 2.0 and is located at _________ {development must provide a
 link to where Oracle makes the source form available under the MPL 2.0}. If
 a copy of the MPL was not distributed with this file, You can obtain one at
 http://mozilla.org/MPL/2.0/.
Software distributed under the License is distributed on an "AS IS" basis,
 WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 for the specific language governing rights and limitations under the
 License.

Mozilla Public License, version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.
1.3. “Contribution”
means Covered Software of a particular Contributor.
1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. “Incompatible With Secondary Licenses”
means
a. that the initial Contributor has attached the notice described in Exhibit
 B to the Covered Software; or
b. that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
1.6. “Executable Form”
means any form of the work other than Source Code Form.
1.7. “Larger Work”
```

```
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. “License”
means this document.
1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. “Modifications”
means any of the following:
a. any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or
b. any new file in Source Code Form that contains any Covered Software.
1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form”
means the form of the work preferred for making modifications.
1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
a. under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
b. under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:
a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
c. under Patent Claims infringed by Covered Software in the absence of its
 Contributions.
```

```
This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
a. such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and
b. You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
```

```
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
```

```
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
```

Provider: Kenneth Reitz / Component(s): certifi 2018.1.18

```
The Source Code of this JAR ____________ {development to identify the
 JAR that contains the MPL Bundle} is available under the Mozilla Public
 License, v. 2.0 and is located at _________ {development must provide a
 link to where Oracle makes the source form available under the MPL 2.0}. If
 a copy of the MPL was not distributed with this file, You can obtain one at
 http://mozilla.org/MPL/2.0/.
Software distributed under the License is distributed on an "AS IS" basis,
 WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 for the specific language governing rights and limitations under the
 License.

Mozilla Public License, version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
```

```
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor's Contribution.
1.3. "Contribution"
means Covered Software of a particular Contributor.
1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. "Incompatible With Secondary Licenses"
means
a. that the initial Contributor has attached the notice described in Exhibit
 B to the Covered Software; or
b. that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
1.6. "Executable Form"
means any form of the work other than Source Code Form.
1.7. "Larger Work"
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. "License"
means this document.
1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. "Modifications"
means any of the following:
a. any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or
b. any new file in Source Code Form that contains any Covered Software.
1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. "Source Code Form"
means the form of the work preferred for making modifications.
1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License.
 For legal entities, "You" includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 "control" means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
a. under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
b. under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.
```

```
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:
a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party's
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
c. under Patent Claims infringed by Covered Software in the absence of its
 Contributions.
This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
a. such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and
b. You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
```

```
3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
```

```
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
```

Provider: Kenneth Reitz / Component(s): certifi 2018.11.29

```
The Source Code of this JAR ____________ {development to identify the
 JAR that contains the MPL Bundle} is available under the Mozilla Public
 License, v. 2.0 and is located at _________ {development must provide a
 link to where Oracle makes the source form available under the MPL 2.0}. If
 a copy of the MPL was not distributed with this file, You can obtain one at
 http://mozilla.org/MPL/2.0/.
Software distributed under the License is distributed on an "AS IS" basis,
 WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 for the specific language governing rights and limitations under the
 License.

Mozilla Public License, version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.
1.3. “Contribution”
means Covered Software of a particular Contributor.
1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. “Incompatible With Secondary Licenses”
means
a. that the initial Contributor has attached the notice described in Exhibit
 B to the Covered Software; or
b. that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
1.6. “Executable Form”
means any form of the work other than Source Code Form.
1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. “License”
means this document.
1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. “Modifications”
means any of the following:
a. any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or
b. any new file in Source Code Form that contains any Covered Software.
1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form”
means the form of the work preferred for making modifications.
```

```
1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
a. under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and
b. under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:
a. for any code that a Contributor has removed from Covered Software; or
b. for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
c. under Patent Claims infringed by Covered Software in the absence of its
 Contributions.
This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients’ rights in the Source Code Form.
3.2. Distribution of Executable Form
```

```
If You distribute Covered Software in Executable Form then:
a. such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and
b. You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
```

```
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party's negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party's ability to bring cross-claims or
 counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
```

```
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
```

Provider: Kenneth Reitz / Component(s): certifi 2023.7.22

```
=================
Public License and Copyright Notice of Distiribution (https://github.com/
certifi/python-certifi/blob/2023.07.22/LICENSE)
=================
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $



=================
Mozilla Public Licence v2.0, referred to, in the copyright notice of certifi
 2023.07.22 (http://mozilla.org/MPL/2.0/)
=================
Mozilla Public License

Version 2.0

1. Definitions

1.1. "Contributor"
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
```

```
1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. "Incompatible With Secondary Licenses"
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. "Modifications"
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
```

```
means an individual or a legal entity exercising rights under this License.
 For legal entities, "You" includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 "control" means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
```

```
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
```

```
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
```

```
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by the Mozilla Public License, v. 2.0.
```

Provider: Kenneth Reitz / Component(s): requests 2.11.1

```
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
```

```
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

Attributions:
https://github.com/kennethreitz/requests/blob/master/NOTICE

Requests includes some vendorized python libraries to ease installation.

Urllib3 License
===============

This is the MIT license: http://www.opensource.org/licenses/mit-license.php

Copyright 2008-2011 Andrey Petrov and contributors (see CONTRIBUTORS.txt),
Modifications copyright 2012 Kenneth Reitz.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
```

```
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Chardet License
===============

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
02110-1301 USA


CA Bundle License
=================

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at http://mozilla.org/MPL/2.0/.

4th Party Dependencies:
alabaster ver.0.7.7
Copyright (c) 2015 Jeff Forcier.

Based on original work copyright (c) 2011 Kenneth Reitz and copyright (c)
 2010
Armin Ronacher.

Some rights reserved.

Redistribution and use in source and binary forms of the theme, with or
without modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS THEME IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
```

```
ARISING IN ANY WAY OUT OF THE USE OF THIS THEME, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


Babel ver.2.2.0
Copyright (C) 2013 by the Babel Team, see AUTHORS for more information.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.
3. The name of the author may not be used to endorse or promote
products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Authors
Babel is written and maintained by the Babel team and various contributors:

Maintainer and Current Project Lead:

- Armin Ronacher

Contributors:

- Christopher Lenz
- Alex Morega
- Felix Schwarz
- Pedro Algarvio
- Jeroen Ruigrok van der Werven
- Philip Jenvey
- Tobias Bieniek
- Jonas Borgström
- Daniel Neuhäuser
- Nick Retallack
- Thomas Waldmann
- Lennart Regebro
- Isaac Jurado
- Craig Loftus

Babel was previously developed under the Copyright of Edgewall Software. The
following copyright notice holds true for releases before 2013: "Copyright
 (c)
2007 - 2011 by Edgewall Software"
```

```
In addition to the regular contributions Babel includes a fork of Lennart
Regebro's tzlocal that originally was licensed under the CC0 license. The
original copyright of that project is "Copyright 2013 by Lennart Regebro".


coverage ver.4.0.3
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
```

```
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
```

```
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


decorator ver.4.0.9
Copyright (c) 2005-2015, Michele Simionato
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
Redistributions in bytecode form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
```

```
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.



docutils ver.0.12
=================
Copying Docutils
==================

:Author: David Goodger
:Contact: goodger@python.org
:Date: $Date: 2012-10-16 14:40:36 +0200 (Die, 16. Okt 2012) $
:Web site: http://docutils.sourceforge.net/
:Copyright: This document has been placed in the public domain.

Most of the files included in this project have been placed in the
public domain, and therefore have no license requirements and no
restrictions on copying or usage; see the `Public Domain Dedication`_
below. There are a few exceptions_, listed below.
Files in the Sandbox_ are not distributed with Docutils releases and
may have different license terms.


Public Domain Dedication
========================

The persons who have associated their work with this project (the
"Dedicator": David Goodger and the many contributors to the Docutils
project) hereby dedicate the entire copyright, less the exceptions_
listed below, in the work of authorship known as "Docutils" identified
below (the "Work") to the public domain.

The primary repository for the Work is the Internet World Wide Web
site . The Work consists of the
files within the "docutils" module of the Docutils project Subversion
repository (Internet host docutils.svn.sourceforge.net, filesystem path
/svnroot/docutils), whose Internet web interface is located at
. Files dedicated to the
public domain may be identified by the inclusion, near the beginning
of each file, of a declaration of the form::

Copyright: This document/module/DTD/stylesheet/file/etc. has been
placed in the public domain.

Dedicator makes this dedication for the benefit of the public at large
and to the detriment of Dedicator's heirs and successors. Dedicator
intends this dedication to be an overt act of relinquishment in
perpetuity of all present and future rights under copyright law,
whether vested or contingent, in the Work. Dedicator understands that
such relinquishment of all rights includes the relinquishment of all
rights to enforce (by lawsuit or otherwise) those copyrights in the
Work.

Dedicator recognizes that, once placed in the public domain, the Work
may be freely reproduced, distributed, transmitted, used, modified,
built upon, or otherwise exploited by anyone for any purpose,
commercial or non-commercial, and in any way, including by methods
that have not yet been invented or conceived.
```

```
(This dedication is derived from the text of the `Creative Commons
Public Domain Dedication`. [#]_)

.. [#] Creative Commons has `retired this legal tool`__ and does not
recommend that it be applied to works: This tool is based on United
States law and may not be applicable outside the US. For dedicating new
works to the public domain, Creative Commons recommend the replacement
Public Domain Dedication CC0_ (CC zero, "No Rights Reserved"). So does
the Free Software Foundation in its license-list_.

__ http://creativecommons.org/retiredlicenses
.. _CC0: http://creativecommons.org/about/cc0


Flask ver.0.10.1
opyright (c) 2013 by Armin Ronacher and contributors. See AUTHORS
for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.



httpbin ver.0.4.1
ISC License

Copyright (c) 2011 Kenneth Reitz.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
```

```
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


itsdangerous ver.0.24
Copyright (c) 2011 by Armin Ronacher and the Django Software Foundation.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Jinja2 ver.2.8
Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


MarkupSafe ver.0.23
Copyright (c) 2010 by Armin Ronacher and contributors. See AUTHORS
for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

py ver.1.4.31
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



Pygments ver.2.1.1
Copyright (c) 2006-2015 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

AUTHORS
Pygments is written and maintained by Georg Brandl .

Major developers are Tim Hatch and Armin Ronacher
.

Other contributors, listed alphabetically, are:

* Sam Aaron -- Ioke lexer
* Ali Afshar -- image formatter
* Thomas Aglassinger -- Easytrieve, JCL and Rexx lexers
* Muthiah Annamalai -- Ezhil lexer
* Kumar Appaiah -- Debian control lexer
* Andreas Amann -- AppleScript lexer
* Timothy Armstrong -- Dart lexer fixes
* Jeffrey Arnold -- R/S, Rd, BUGS, Jags, and Stan lexers
* Jeremy Ashkenas -- CoffeeScript lexer
* José Joaquín Atria -- Praat lexer
* Stefan Matthias Aust -- Smalltalk lexer
* Lucas Bajolet -- Nit lexer
* Ben Bangert -- Mako lexers
* Max Battcher -- Darcs patch lexer
* Thomas Baruchel -- APL lexer
* Tim Baumann -- (Literate) Agda lexer
* Paul Baumgart, 280 North, Inc. -- Objective-J lexer
* Michael Bayer -- Myghty lexers
* Thomas Beale -- Archetype lexers
* John Benediktsson -- Factor lexer
* Trevor Bergeron -- mIRC formatter
* Vincent Bernat -- LessCSS lexer
* Christopher Bertels -- Fancy lexer
```

```
* Sébastien Bigaret -- QVT Operational lexer
* Jarrett Billingsley -- MiniD lexer
* Adam Blinkinsop -- Haskell, Redcode lexers
* Frits van Bommel -- assembler lexers
* Pierre Bourdon -- bugfixes
* chebee7i -- Python traceback lexer improvements
* Hiram Chirino -- Scaml and Jade lexers
* Ian Cooper -- VGL lexer
* David Corbett -- Inform, Jasmin, and TADS 3 lexers
* Leaf Corcoran -- MoonScript lexer
* Christopher Creutzig -- MuPAD lexer
* Daniël W. Crompton -- Pike lexer
* Pete Curry -- bugfixes
* Bryan Davis -- EBNF lexer
* Bruno Deferrari -- Shen lexer
* Giedrius Dubinskas -- HTML formatter improvements
* Owen Durni -- Haxe lexer
* Alexander Dutton, Oxford University Computing Services -- SPARQL lexer
* James Edwards -- Terraform lexer
* Nick Efford -- Python 3 lexer
* Sven Efftinge -- Xtend lexer
* Artem Egorkine -- terminal256 formatter
* Matthew Fernandez -- CAmkES lexer
* Michael Ficarra -- CPSA lexer
* James H. Fisher -- PostScript lexer
* William S. Fulton -- SWIG lexer
* Carlos Galdino -- Elixir and Elixir Console lexers
* Michael Galloy -- IDL lexer
* Naveen Garg -- Autohotkey lexer
* Laurent Gautier -- R/S lexer
* Alex Gaynor -- PyPy log lexer
* Richard Gerkin -- Igor Pro lexer
* Alain Gilbert -- TypeScript lexer
* Alex Gilding -- BlitzBasic lexer
* Bertrand Goetzmann -- Groovy lexer
* Krzysiek Goj -- Scala lexer
* Matt Good -- Genshi, Cheetah lexers
* Michał Górny -- vim modeline support
* Alex Gosse -- TrafficScript lexer
* Patrick Gotthardt -- PHP namespaces support
* Olivier Guibe -- Asymptote lexer
* Jordi Gutiérrez Hermoso -- Octave lexer
* Florian Hahn -- Boogie lexer
* Martin Harriman -- SNOBOL lexer
* Matthew Harrison -- SVG formatter
* Steven Hazel -- Tcl lexer
* Dan Michael Heggø -- Turtle lexer
* Aslak Hellesøy -- Gherkin lexer
* Greg Hendershott -- Racket lexer
* Justin Hendrick -- ParaSail lexer
* David Hess, Fish Software, Inc. -- Objective-J lexer
* Varun Hiremath -- Debian control lexer
* Rob Hoelz -- Perl 6 lexer
* Doug Hogan -- Mscgen lexer
* Ben Hollis -- Mason lexer
* Max Horn -- GAP lexer
* Alastair Houghton -- Lexer inheritance facility
* Tim Howard -- BlitzMax lexer
* Dustin Howett -- Logos lexer
* Ivan Inozemtsev -- Fantom lexer
* Hiroaki Itoh -- Shell console rewrite, Lexers for PowerShell session,
 MSDOS session, BC
* Brian R. Jackson -- Tea lexer
* Christian Jann -- ShellSession lexer
```

```
* Dennis Kaarsemaker -- sources.list lexer
* Dmitri Kabak -- Inferno Limbo lexer
* Igor Kalnitsky -- vhdl lexer
* Alexander Kit -- MaskJS lexer
* Pekka Klärck -- Robot Framework lexer
* Gerwin Klein -- Isabelle lexer
* Eric Knibbe -- Lasso lexer
* Stepan Koltsov -- Clay lexer
* Adam Koprowski -- Opa lexer
* Benjamin Kowarsch -- Modula-2 lexer
* Domen Kožar -- Nix lexer
* Oleh Krekel -- Emacs Lisp lexer
* Alexander Kriegisch -- Kconfig and AspectJ lexers
* Marek Kubica -- Scheme lexer
* Jochen Kupperschmidt -- Markdown processor
* Gerd Kurzbach -- Modelica lexer
* Jon Larimer, Google Inc. -- Smali lexer
* Olov Lassus -- Dart lexer
* Matt Layman -- TAP lexer
* Sylvestre Ledru -- Scilab lexer
* Mark Lee -- Vala lexer
* Valentin Lorentz -- C++ lexer improvements
* Ben Mabey -- Gherkin lexer
* Angus MacArthur -- QML lexer
* Louis Mandel -- X10 lexer
* Louis Marchand -- Eiffel lexer
* Simone Margaritelli -- Hybris lexer
* Kirk McDonald -- D lexer
* Gordon McGregor -- SystemVerilog lexer
* Stephen McKamey -- Duel/JBST lexer
* Brian McKenna -- F# lexer
* Charles McLaughlin -- Puppet lexer
* Lukas Meuser -- BBCode formatter, Lua lexer
* Cat Miller -- Pig lexer
* Paul Miller -- LiveScript lexer
* Hong Minhee -- HTTP lexer
* Michael Mior -- Awk lexer
* Bruce Mitchener -- Dylan lexer rewrite
* Reuben Morais -- SourcePawn lexer
* Jon Morton -- Rust lexer
* Paulo Moura -- Logtalk lexer
* Mher Movsisyan -- DTD lexer
* Dejan Muhamedagic -- Crmsh lexer
* Ana Nelson -- Ragel, ANTLR, R console lexers
* Nam T. Nguyen -- Monokai style
* Jesper Noehr -- HTML formatter "anchorlinenos"
* Mike Nolta -- Julia lexer
* Jonas Obrist -- BBCode lexer
* Edward O'Callaghan -- Cryptol lexer
* David Oliva -- Rebol lexer
* Pat Pannuto -- nesC lexer
* Jon Parise -- Protocol buffers and Thrift lexers
* Benjamin Peterson -- Test suite refactoring
* Ronny Pfannschmidt -- BBCode lexer
* Dominik Picheta -- Nimrod lexer
* Andrew Pinkham -- RTF Formatter Refactoring
* Clément Prévost -- UrbiScript lexer
* Elias Rabel -- Fortran fixed form lexer
* raichoo -- Idris lexer
* Kashif Rasul -- CUDA lexer
* Justin Reidy -- MXML lexer
* Norman Richards -- JSON lexer
* Corey Richardson -- Rust lexer updates
* Lubomir Rintel -- GoodData MAQL and CL lexers
```

```
* Andre Roberge -- Tango style
* Konrad Rudolph -- LaTeX formatter enhancements
* Mario Ruggier -- Evoque lexers
* Miikka Salminen -- Lovelace style, Hexdump lexer, lexer enhancements
* Stou Sandalski -- NumPy, FORTRAN, tcsh and XSLT lexers
* Matteo Sasso -- Common Lisp lexer
* Joe Schafer -- Ada lexer
* Ken Schutte -- Matlab lexers
* Tassilo Schweyer -- Io, MOOCode lexers
* Ted Shaw -- AutoIt lexer
* Joerg Sieker -- ABAP lexer
* Robert Simmons -- Standard ML lexer
* Kirill Simonov -- YAML lexer
* Alexander Smishlajev -- Visual FoxPro lexer
* Steve Spigarelli -- XQuery lexer
* Jerome St-Louis -- eC lexer
* James Strachan -- Kotlin lexer
* Tom Stuart -- Treetop lexer
* Colin Sullivan -- SuperCollider lexer
* Edoardo Tenani -- Arduino lexer
* Tiberius Teng -- default style overhaul
* Jeremy Thurgood -- Erlang, Squid config lexers
* Brian Tiffin -- OpenCOBOL lexer
* Bob Tolbert -- Hy lexer
* Erick Tryzelaar -- Felix lexer
* Alexander Udalov -- Kotlin lexer improvements
* Thomas Van Doren -- Chapel lexer
* Daniele Varrazzo -- PostgreSQL lexers
* Abe Voelker -- OpenEdge ABL lexer
* Pepijn de Vos -- HTML formatter CTags support
* Matthias Vallentin -- Bro lexer
* Linh Vu Hong -- RSL lexer
* Nathan Weizenbaum -- Haml and Sass lexers
* Nathan Whetsell -- Csound lexers
* Dietmar Winkler -- Modelica lexer
* Nils Winter -- Smalltalk lexer
* Davy Wybiral -- Clojure lexer
* Whitney Young -- ObjectiveC lexer
* Diego Zamboni -- CFengine3 lexer
* Enrique Zamudio -- Ceylon lexer
* Alex Zimin -- Nemerle lexer
* Rob Zimmerman -- Kal lexer
* Vincent Zurczak -- Roboconf lexer

Many thanks for all contributions!

pytest ver.2.8.7
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



pytest-cov ver.2.2.1
The MIT License

Copyright (c) 2010 Meme Dough

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



pytest-httpbin ver.0.2.0
The MIT License (MIT)

Copyright (c) 2014-2015 Kevin McCarthy

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

pytest-mock ver.0.11.0
NU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies
```

```
of this license document, but changing it is not allowed.


This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified
version:

a) under this License, provided that you make a good faith effort to
ensure that, in the event an Application does not supply the
function or data, the facility still operates, and performs
whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of
this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
```

```
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
```

```
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

pytz ver.2015.7
Copyright (c) 2003-2009 Stuart Bishop

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

six ver.1.10.0
Copyright (c) 2010-2015 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
```

```
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

snowballstemmer ver.1.2.1
License
-------

Copyright (c) 2013, Yoshiki Shibukawa

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and
the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions
and the following disclaimer in the documentation and/or other materials
 provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT HOLDER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Sphinx ver.1.3.5
License for Sphinx
==================

Copyright (c) 2007-2016 by the Sphinx team (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Licenses for incorporated software
==================================

The pgen2 package, included in this distribution under the name
sphinx.pycode.pgen2, is available in the Python 2.6 distribution under
the PSF license agreement for Python:

---------------------------------------------------------------------
Copyright © 2001-2008 Python Software Foundation; All Rights Reserved.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing
and otherwise using Python 2.6 software in source or binary form
and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display
publicly, prepare derivative works, distribute, and otherwise use
Python 2.6 alone or in any derivative version, provided, however,
that PSF's License Agreement and PSF's notice of copyright, i.e.,
"Copyright © 2001-2008 Python Software Foundation; All Rights
Reserved" are retained in Python 2.6 alone or in any derivative
version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 2.6 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary
of the changes made to Python 2.6.

4. PSF is making Python 2.6 available to Licensee on an "AS IS" basis.
PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY
WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY
PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 2.6 WILL NOT INFRINGE
ANY THIRD PARTY RIGHTS.
```

```
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
2.6 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON
2.6, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY
THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF
and Licensee. This License Agreement does not grant permission to
use PSF trademarks or trade name in a trademark sense to endorse or
promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python 2.6, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
----------------------------------------------------------------------

The included smartypants module, included as sphinx.util.smartypants,
is available under the following license:

----------------------------------------------------------------------
SmartyPants_ license::

Copyright (c) 2003 John Gruber
(http://daringfireball.net/)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.

* Neither the name "SmartyPants" nor the names of its
contributors may be used to endorse or promote products
derived from this software without specific prior written
permission.

This software is provided by the copyright holders and
contributors "as is" and any express or implied warranties,
including, but not limited to, the implied warranties of
merchantability and fitness for a particular purpose are
disclaimed. In no event shall the copyright owner or contributors
be liable for any direct, indirect, incidental, special,
exemplary, or consequential damages (including, but not limited
to, procurement of substitute goods or services; loss of use,
data, or profits; or business interruption) however caused and on
any theory of liability, whether in contract, strict liability, or
tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of
such damage.


smartypants.py license::
```

```
smartypants.py is a derivative work of SmartyPants.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.

This software is provided by the copyright holders and
contributors "as is" and any express or implied warranties,
including, but not limited to, the implied warranties of
merchantability and fitness for a particular purpose are
disclaimed. In no event shall the copyright owner or contributors
be liable for any direct, indirect, incidental, special,
exemplary, or consequential damages (including, but not limited
to, procurement of substitute goods or services; loss of use,
data, or profits; or business interruption) however caused and on
any theory of liability, whether in contract, strict liability, or
tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of
such damage.
---------------------------------------------------------------------

The ElementTree package, included in this distribution in
test/etree13, is available under the following license:

---------------------------------------------------------------------
The ElementTree toolkit is

Copyright (c) 1999-2007 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its
associated documentation, you agree that you have read, understood,
and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its
associated documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appears in all
copies, and that both that copyright notice and this permission notice
appear in supporting documentation, and that the name of Secret Labs
AB or the author not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANT- ABILITY
AND FITNESS. IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
---------------------------------------------------------------------

The included JQuery JavaScript library is available under the MIT
license:

---------------------------------------------------------------------
Copyright (c) 2008 John Resig, http://jquery.com/
```

```
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------

The included Underscore JavaScript library is available under the MIT
license:

-----------------------------------------------------------------------
Copyright (c) 2009 Jeremy Ashkenas, DocumentCloud

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

The included implementation of
 NumpyDocstring._parse_numpydoc_see_also_section
was derived from code under the following license:

--------------------------------------------------------------------------------

Copyright (C) 2008 Stefan van der Walt , Pauli Virtanen

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

sphinx-rtd-theme ver.0.1.9
The MIT License (MIT)

Copyright (c) 2013 Dave Snider

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



Werkzeug ver.0.11.4
Copyright (c) 2014 by the Werkzeug Team, see AUTHORS for more details.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
```

```
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


wheel ver.0.29.0
"wheel" copyright (c) 2012-2014 Daniel Holth and
contributors.

The MIT License

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Kenneth Reitz / Component(s): requests 2.18.4

```
Copyright 2017 Kenneth Reitz

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.



Apache License
```

```
Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.
```

```
2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
```

```
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

---------------------------------------------------------------
---------------------------------------------------------------
---------------------------------------------------------------

urllib3

This is the MIT license: http://www.opensource.org/licenses/mit-license.php

Copyright 2008-2016 Andrey Petrov and contributors (see CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
```

```
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------

certifi

This packge contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $


-------------------------------------------------------------------

chardet

GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
```

```
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.


  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
```

```
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.


    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
```

```
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.


  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
```

```
  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.


  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.


  6. As an exception to the Sections above, you may also combine or
```

```
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.


  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
```

```
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.


  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
```

```
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.


  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

       NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

       END OF TERMS AND CONDITIONS
```

```
            How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301
 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!



------------------------------------------------------------------

idna

Copyright (c) 2013-2017, Kim Davies. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
```

```
    Neither the name of the copyright holder nor the names of the
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
    THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY EXPRESS OR
 IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.

Portions of the codec implementation and unit tests are derived from the
 Python standard library, which carries the Python Software Foundation
 License:

    Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved

Portions of the unit tests are derived from the Unicode standard, which is
 subject to the Unicode, Inc. License Agreement:

    Copyright (c) 1991-2014 Unicode, Inc. All rights reserved. Distributed
 under the Terms of Use in <http://www.unicode.org/copyright.html>.

    Permission is hereby granted, free of charge, to any person obtaining
 a copy of the Unicode data files and any associated documentation (the
 "Data Files") or Unicode software and any associated documentation (the
 "Software") to deal in the Data Files or Software without restriction,
 including without limitation the rights to use, copy, modify, merge,
 publish, distribute, and/or sell copies of the Data Files or Software, and
 to permit persons to whom the Data Files or Software are furnished to do
 so, provided that

    (a) this copyright and permission notice appear with all copies of the
 Data Files or Software,

    (b) this copyright and permission notice appear in associated
 documentation, and

    (c) there is clear notice in each modified Data File or in the Software
 as well as in the documentation associated with the Data File(s) or
 Software that the data or software has been modified.

    THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
 ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
 OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS
 INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT
 OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
 OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THE DATA FILES OR SOFTWARE.

    Except as contained in this notice, the name of a copyright holder
 shall not be used in advertising or otherwise to promote the sale, use
 or other dealings in these Data Files or Software without prior written
 authorization of the copyright holder.


--------------------------------------------------------------------------
pysocks
```

Copyright 2006 Dan-Haim. All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
3. Neither the name of Dan Haim nor the names of his contributors may be used
   to endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY DAN HAIM "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL DAN HAIM OR HIS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMANGE.

---

alabaster

Copyright (c) 2017 Jeff Forcier.

Based on original work copyright (c) 2011 Kenneth Reitz and copyright (c) 2010
Armin Ronacher.

Some rights reserved.

Redistribution and use in source and binary forms of the theme, with or
without modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.

THIS THEME IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE

```
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS THEME, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------

apipkg

Permission is hereby granted, free of charge, to any person obtaining a copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------------------------------------------------

babel

Copyright (C) 2013 by the Babel Team, see AUTHORS for more information.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.
 3. The name of the author may not be used to endorse or promote
    products derived from this software without specific prior
    written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
```

```
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

bleach

Copyright (c) 2014-2017, Mozilla Foundation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
```

```
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
```

```
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
```

```
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


----------------------------------------------------------------

click

Copyright (c) 2014 by Armin Ronacher.

Click uses parts of optparse written by Gregory P. Ward and maintained by
 the
Python software foundation.  This is limited to code in the parser.py
module:

Copyright (c) 2001-2006 Gregory P. Ward.  All rights reserved.
Copyright (c) 2002-2006 Python Software Foundation.  All rights reserved.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
----------------------------------------------------------------

codecov

    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2015 Codecov

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.

------------------------------------------------------------

configparser

Copyright <YEAR> <COPYRIGHT HOLDER>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------

coverage

Copyright 2001 Gareth Rees.  All rights reserved.
Copyright 2004-2017 Ned Batchelder.  All rights reserved.

Except where noted otherwise, this software is licensed under the Apache
License, Version 2.0 (the "License"); you may not use this work except in
compliance with the License.  You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License

Version 2.0, January 2004
```

```
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
```

```
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
```

```
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS
IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------------------
decorator

Copyright (c) 2005-2017, Michele Simionato
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
  Redistributions in bytecode form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-------------------------------------------------------

docutils

==================
 Copying Docutils
==================

:Author: David Goodger
:Contact: goodger@python.org
:Date: $Date: 2015-05-08 17:56:32 +0200 (Fr, 08 Mai 2015) $
:Web site: http://docutils.sourceforge.net/
:Copyright: This document has been placed in the public domain.

Most of the files included in this project have been placed in the
public domain, and therefore have no license requirements and no
restrictions on copying or usage; see the `Public Domain Dedication`_
below.  There are a few exceptions_, listed below.
Files in the Sandbox_ are not distributed with Docutils releases and
may have different license terms.


Public Domain Dedication
========================

The persons who have associated their work with this project (the
"Dedicator": David Goodger and the many contributors to the Docutils
project) hereby dedicate the entire copyright, less the exceptions_
listed below, in the work of authorship known as "Docutils" identified
below (the "Work") to the public domain.

The primary repository for the Work is the Internet World Wide Web
site <http://docutils.sourceforge.net/>.  The Work consists of the
files within the "docutils" module of the Docutils project Subversion
repository (Internet host docutils.svn.sourceforge.net, filesystem path
/svnroot/docutils), whose Internet web interface is located at
<http://docutils.svn.sourceforge.net/viewvc/docutils/>.  Files dedicated to
 the
public domain may be identified by the inclusion, near the beginning
of each file, of a declaration of the form::
```

```
    Copyright: This document/module/DTD/stylesheet/file/etc. has been
               placed in the public domain.

Dedicator makes this dedication for the benefit of the public at large
and to the detriment of Dedicator's heirs and successors.  Dedicator
intends this dedication to be an overt act of relinquishment in
perpetuity of all present and future rights under copyright law,
whether vested or contingent, in the Work.  Dedicator understands that
such relinquishment of all rights includes the relinquishment of all
rights to enforce (by lawsuit or otherwise) those copyrights in the
Work.

Dedicator recognizes that, once placed in the public domain, the Work
may be freely reproduced, distributed, transmitted, used, modified,
built upon, or otherwise exploited by anyone for any purpose,
commercial or non-commercial, and in any way, including by methods
that have not yet been invented or conceived.

(This dedication is derived from the text of the `Creative Commons
Public Domain Dedication`. [#]_)

.. [#] Creative Commons has `retired this legal tool`__ and does not
   recommend that it be applied to works: This tool is based on United
   States law and may not be applicable outside the US. For dedicating new
   works to the public domain, Creative Commons recommend the replacement
   Public Domain Dedication CC0_ (CC zero, "No Rights Reserved"). So does
   the Free Software Foundation in its license-list_.

   __  http://creativecommons.org/retiredlicenses
   .. _CC0: http://creativecommons.org/about/cc0

Exceptions
==========

The exceptions to the `Public Domain Dedication`_ above are:

* docutils/writers/s5_html/themes/default/iepngfix.htc:

      IE5.5+ PNG Alpha Fix v1.0 by Angus Turnbull
      <http://www.twinhelix.com>.  Free usage permitted as long as
      this notice remains intact.

* docutils/utils/math/__init__.py,
  docutils/utils/math/latex2mathml.py,
  docutils/writers/xetex/__init__.py,
  docutils/writers/latex2e/docutils-05-compat.sty,
  docs/user/docutils-05-compat.sty.txt,
  docutils/utils/error_reporting.py,
  docutils/test/transforms/test_smartquotes.py:

  Copyright © Günter Milde.
  Released under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

* docutils/utils/smartquotes.py

  Copyright © 2011 Günter Milde,
  based on `SmartyPants`_ © 2003 John Gruber
  (released under a 3-Clause BSD license included in the file)
  and smartypants.py © 2004, 2007 Chad Miller.
  Released under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).
```

```
  .. _SmartyPants: http://daringfireball.net/projects/smartypants/

* docutils/utils/math/math2html.py,
  docutils/writers/html4css1/math.css

  Copyright © Alex Fernández
  These files are part of eLyXer_, released under the `GNU
  General Public License`_ version 3 or later. The author relicensed
  them for Docutils under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

  .. _eLyXer: http://www.nongnu.org/elyxer/

* docutils/utils/roman.py, copyright by Mark Pilgrim, released under the
  `Python 2.1.1 license`_ (`local copy`__).

  __ licenses/python-2-1-1.txt

* tools/editors/emacs/rst.el, copyright by Free Software Foundation,
  Inc., released under the `GNU General Public License`_ version 3 or
  later (`local copy`__).

  __ licenses/gpl-3-0.txt

The `2-Clause BSD license`_ and the Python licenses are OSI-approved_
and GPL-compatible_.

Plaintext versions of all the linked-to licenses are provided in the
licenses_ directory.

.. _sandbox: http://docutils.sourceforge.net/sandbox/README.html
.. _licenses: licenses/
.. _Python 2.1.1 license: http://www.python.org/2.1.1/license.html
.. _GNU General Public License: http://www.gnu.org/copyleft/gpl.html
.. _2-Clause BSD license: http://www.spdx.org/licenses/BSD-2-Clause
.. _OSI-approved: http://opensource.org/licenses/
.. _license-list:
.. _GPL-compatible: http://www.gnu.org/licenses/license-list.html


---------------------------------------------------------------------------

enum-compat
Author: Jakub Stasiak

Copyright <YEAR> <COPYRIGHT HOLDER>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
--------------------------------------------------------------------------------

enum34

Author: Ethan Furman

Copyright (c) 2013, Ethan Furman.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    Redistributions of source code must retain the above
    copyright notice, this list of conditions and the
    following disclaimer.

    Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name Ethan Furman nor the names of any
    contributors may be used to endorse or promote products
    derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------

eventlet

Unless otherwise noted, the files in Eventlet are under the following MIT
 license:

Copyright (c) 2005-2006, Bob Ippolito
Copyright (c) 2007-2010, Linden Research, Inc.
Copyright (c) 2008-2010, Eventlet Contributors (see AUTHORS)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


------------------------------------------------------------

execnet


  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
  SOFTWARE.



------------------------------------------------------------

flake8

Copyright (C) 2011-2013 Tarek Ziade <tarek@ziade.org>
Copyright (C) 2012-2016 Ian Cordasco <graffatcolmingov@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



------------------------------------------------------------

flask

Copyright (c) 2015 by Armin Ronacher and contributors.  See AUTHORS
for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-------------------------------------------------------------------

funcsigs

funcsigs is a derived work of CPython under the terms of the PSF License
 Agreement. The original CPython inspect module, its unit tests and
 documentation are the copyright of the Python Software Foundation. The
 derived work is distributed under the Apache License Version 2.0.



PSF LICENSE AGREEMENT FOR PYTHON 3.6.3

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
```

```
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   3.6.3 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 3.6.3 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2017 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 3.6.3 alone or in any derivative version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 3.6.3 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
   agrees to include in any such work a brief summary of the changes made to
 Python
   3.6.3.

4. PSF is making Python 3.6.3 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 3.6.3 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 3.6.3
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 3.6.3, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 3.6.3, Licensee agrees
   to be bound by the terms and conditions of this License Agreement.



Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/
```

```
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
```

```
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
```

```
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


-----------------------------------------------------------------------------

greenlet

The following files are derived from Stackless Python and are subject to the
same license as Stackless Python:
```

```
 slp_platformselect.h
 files in platform/ directory

See LICENSE.PSF and http://www.stackless.com/ for details.

Unless otherwise noted, the files in greenlet have been released under the
following MIT license:

Copyright (c) Armin Rigo, Christian Tismer and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011 Python Software Foundation; All Rights Reserved" are retained in Python
alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
```

```
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

---------------------------------------------------------------------

html5lib

Copyright (c) 2006-2013 James Graham and other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------------------------------------------

httpbin

ISC License

Copyright (c) 2017 Kenneth Reitz.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

---------------------------------------------------------------------
```

```
imagesize

Copyright © 2016 Yoshiki Shibukawa

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the “Software”), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------

itsdangerous

Copyright (c) 2011 by Armin Ronacher and the Django Software Foundation.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------------

jinja2

Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.
```

```
Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------

markupsafe

Copyright (c) 2010 by Armin Ronacher and contributors.  See AUTHORS
for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
```

```
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-------------------------------------------------------------------

mccabe

Copyright © <year> Ned Batchelder
Copyright © 2011-2013 Tarek Ziade <tarek@ziade.org>
Copyright © 2013 Florent Xicluna <florent.xicluna@gmail.com>

Licensed under the terms of the Expat License

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

--------------------------------------------------------------------

mock

Copyright (c) 2003-2013, Michael Foord & the mock team
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

pbr


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.


---------------------------------------------------------------------

pluggy

The MIT License (MIT)
```

Copyright (c) 2015 holger krekel (rather uses bitbucket/hpk42)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---

py

Permission is hereby granted, free of charge, to any person obtaining a
copy
 of this software and associated documentation files (the "Software"), to
deal
 in the Software without restriction, including without limitation the
rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
all
 copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE
SOFTWARE.

---

pycodestyle

Copyright © 2006-2009 Johann C. Rocholl <johann@rocholl.net>
Copyright © 2009-2014 Florent Xicluna <florent.xicluna@gmail.com>
Copyright © 2014-2016 Ian Lee <IanLee1521@gmail.com>

Licensed under the terms of the Expat License

```
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

-------------------------------------------------------------------

pycodeflakes

Copyright 2005-2011 Divmod, Inc.
Copyright 2013-2014 Florent Xicluna

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------

pygments

Copyright (c) 2006-2017 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------

pytest

The MIT License (MIT)

Copyright (c) 2004-2017 Holger Krekel and others

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------------------------------------------------------------

pytest-cov

The MIT License

Copyright (c) 2010 Meme Dough

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------------------------------

pytest-forked

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------------------------------------------------------------------

pytest-httpbin

The MIT License (MIT)

Copyright (c) 2014-2015 Kevin McCarthy

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
---------------------------------------------------------------------

pytest-mock

MIT License

Copyright (c) [2016] [Bruno Oliveira]

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------------------------------------------------------------------

pytest-xdist

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------------------------------------------

pytz
```

Copyright (c) 2003-2017 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

readme_renderer

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

```
   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

-------------------------------------------------------------------------------

requests

Copyright 2017 Kenneth Reitz

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
```

```
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
```

```
9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.


---------------------------------------------------------------------------

six

Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------

snowballstemmer

Copyright (c) 2013, Yoshiki Shibukawa

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
```

```
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------
===============================================================================

sphinx

License for Sphinx
==================

Copyright (c) 2007-2017 by the Sphinx team (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Licenses for incorporated software
==================================

The pgen2 package, included in this distribution under the name
sphinx.pycode.pgen2, is available in the Python 2.6 distribution under
the PSF license agreement for Python:

-----------------------------------------------------------------------
Copyright © 2001-2008 Python Software Foundation; All Rights Reserved.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
   ("PSF"), and the Individual or Organization ("Licensee") accessing
   and otherwise using Python 2.6 software in source or binary form
   and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF
   hereby grants Licensee a nonexclusive, royalty-free, world-wide
   license to reproduce, analyze, test, perform and/or display
```

```
   publicly, prepare derivative works, distribute, and otherwise use
   Python 2.6 alone or in any derivative version, provided, however,
   that PSF's License Agreement and PSF's notice of copyright, i.e.,
   "Copyright © 2001-2008 Python Software Foundation; All Rights
   Reserved" are retained in Python 2.6 alone or in any derivative
   version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
   or incorporates Python 2.6 or any part thereof, and wants to make
   the derivative work available to others as provided herein, then
   Licensee hereby agrees to include in any such work a brief summary
   of the changes made to Python 2.6.

4. PSF is making Python 2.6 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY
   WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
   REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY
   PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 2.6 WILL NOT INFRINGE
   ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
   2.6 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
   AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON
   2.6, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY
   THEREOF.

6. This License Agreement will automatically terminate upon a material
   breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
   relationship of agency, partnership, or joint venture between PSF
   and Licensee.  This License Agreement does not grant permission to
   use PSF trademarks or trade name in a trademark sense to endorse or
   promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python 2.6, Licensee
   agrees to be bound by the terms and conditions of this License
   Agreement.
-----------------------------------------------------------------------

The included smartypants module, included as sphinx.util.smartypants,
is available under the following license:

-----------------------------------------------------------------------
SmartyPants_ license::

    Copyright (c) 2003 John Gruber
    (https://daringfireball.net/projects/smartypants/)
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    *   Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

    *   Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the following
        disclaimer in the documentation and/or other materials
        provided with the distribution.

    *   Neither the name "SmartyPants" nor the names of its
        contributors may be used to endorse or promote products
```

```
        derived from this software without specific prior written
        permission.

    This software is provided by the copyright holders and
    contributors "as is" and any express or implied warranties,
    including, but not limited to, the implied warranties of
    merchantability and fitness for a particular purpose are
    disclaimed. In no event shall the copyright owner or contributors
    be liable for any direct, indirect, incidental, special,
    exemplary, or consequential damages (including, but not limited
    to, procurement of substitute goods or services; loss of use,
    data, or profits; or business interruption) however caused and on
    any theory of liability, whether in contract, strict liability, or
    tort (including negligence or otherwise) arising in any way out of
    the use of this software, even if advised of the possibility of
    such damage.


smartypants.py license::

    smartypants.py is a derivative work of SmartyPants.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    *   Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

    *   Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the following
        disclaimer in the documentation and/or other materials
        provided with the distribution.

    This software is provided by the copyright holders and
    contributors "as is" and any express or implied warranties,
    including, but not limited to, the implied warranties of
    merchantability and fitness for a particular purpose are
    disclaimed. In no event shall the copyright owner or contributors
    be liable for any direct, indirect, incidental, special,
    exemplary, or consequential damages (including, but not limited
    to, procurement of substitute goods or services; loss of use,
    data, or profits; or business interruption) however caused and on
    any theory of liability, whether in contract, strict liability, or
    tort (including negligence or otherwise) arising in any way out of
    the use of this software, even if advised of the possibility of
    such damage.
-----------------------------------------------------------------------

The ElementTree package, included in this distribution in
test/etree13, is available under the following license:

-----------------------------------------------------------------------
The ElementTree toolkit is

Copyright (c) 1999-2007 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its
associated documentation, you agree that you have read, understood,
and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its
associated documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appears in all
```

```
copies, and that both that copyright notice and this permission notice
appear in supporting documentation, and that the name of Secret Labs
AB or the author not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANT- ABILITY
AND FITNESS.  IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
-----------------------------------------------------------------------

The included JQuery JavaScript library is available under the MIT
license:

-----------------------------------------------------------------------
Copyright (c) 2008 John Resig, https://jquery.com/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------

The included Underscore JavaScript library is available under the MIT
license:

-----------------------------------------------------------------------
Copyright (c) 2009 Jeremy Ashkenas, DocumentCloud

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
```

```
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

The included implementation of
 NumpyDocstring._parse_numpydoc_see_also_section
was derived from code under the following license:

--------------------------------------------------------------------------------

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli
 Virtanen <pav@iki.fi>

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


==========================================================================================


tox


Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
```

```
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


----------------------------------------------------------------

virtualenv

Copyright (c) 2007 Ian Bicking and Contributors
Copyright (c) 2009 Ian Bicking, The Open Planning Project
Copyright (c) 2011-2016 The virtualenv developers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


-------------------------------------------------------------------

webencodings

Copyright (c) 2012 by Simon Sapin.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

werkzeug

Copyright (c) 2014 by the Werkzeug Team, see AUTHORS for more details.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------------
```

Provider: Kenneth Reitz / Component(s): requests 2.21.0

```
Copyright 2017 Kenneth Reitz

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.



Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/
```

```
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
```

```
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
```

```
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

---------------------------------------------------------------
---------------------------------------------------------------
---------------------------------------------------------------

urllib3

This is the MIT license: http://www.opensource.org/licenses/mit-license.php

Copyright 2008-2016 Andrey Petrov and contributors (see CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE
```

```
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------

certifi

This packge contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $


-------------------------------------------------------------------

chardet

GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
```

```
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.


  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.
```

```
  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.


    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
```

```
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.


  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
```

```
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.


  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.


  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
```

```
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.


  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:
```

```
    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.


  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.
```

```
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.


  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

       NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

       END OF TERMS AND CONDITIONS


           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
```

```
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301
 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!



------------------------------------------------------------------

idna

Copyright (c) 2013-2017, Kim Davies. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of the
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
    THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY EXPRESS OR
 IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
```

```
 IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.

Portions of the codec implementation and unit tests are derived from the
 Python standard library, which carries the Python Software Foundation
 License:

    Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved

Portions of the unit tests are derived from the Unicode standard, which is
 subject to the Unicode, Inc. License Agreement:

    Copyright (c) 1991-2014 Unicode, Inc. All rights reserved. Distributed
 under the Terms of Use in <http://www.unicode.org/copyright.html>.

    Permission is hereby granted, free of charge, to any person obtaining
 a copy of the Unicode data files and any associated documentation (the
 "Data Files") or Unicode software and any associated documentation (the
 "Software") to deal in the Data Files or Software without restriction,
 including without limitation the rights to use, copy, modify, merge,
 publish, distribute, and/or sell copies of the Data Files or Software, and
 to permit persons to whom the Data Files or Software are furnished to do
 so, provided that

    (a) this copyright and permission notice appear with all copies of the
 Data Files or Software,

    (b) this copyright and permission notice appear in associated
 documentation, and

    (c) there is clear notice in each modified Data File or in the Software
 as well as in the documentation associated with the Data File(s) or
 Software that the data or software has been modified.

    THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
 ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
 OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS
 INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT
 OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
 OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THE DATA FILES OR SOFTWARE.

    Except as contained in this notice, the name of a copyright holder
 shall not be used in advertising or otherwise to promote the sale, use
 or other dealings in these Data Files or Software without prior written
 authorization of the copyright holder.


--------------------------------------------------------------------------
pysocks

Copyright 2006 Dan-Haim. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
3. Neither the name of Dan Haim nor the names of his contributors may be
 used
   to endorse or promote products derived from this software without
 specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY DAN HAIM "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL DAN HAIM OR HIS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMANGE.


--------------------------------------------------------------------------------


alabaster

Copyright (c) 2017 Jeff Forcier.

Based on original work copyright (c) 2011 Kenneth Reitz and copyright (c)
 2010
Armin Ronacher.

Some rights reserved.

Redistribution and use in source and binary forms of the theme, with or
without modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.

THIS THEME IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS THEME, EVEN IF ADVISED OF THE
```

```
POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------

apipkg

Permission is hereby granted, free of charge, to any person obtaining a copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------------------------------------------------

babel

Copyright (C) 2013 by the Babel Team, see AUTHORS for more information.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.
 3. The name of the author may not be used to endorse or promote
    products derived from this software without specific prior
    written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
--------------------------------------------------------------------

bleach

Copyright (c) 2014-2017, Mozilla Foundation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
```

```
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
```

```
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.
```

```
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------------------------------------

click

Copyright (c) 2014 by Armin Ronacher.

Click uses parts of optparse written by Gregory P. Ward and maintained by
 the
Python software foundation.  This is limited to code in the parser.py
module:

Copyright (c) 2001-2006 Gregory P. Ward.  All rights reserved.
Copyright (c) 2002-2006 Python Software Foundation.  All rights reserved.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------

codecov
```

```
   Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2015 Codecov
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.

------------------------------------------------------------

configparser

Copyright <YEAR> <COPYRIGHT HOLDER>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

---------------------------------------------------------------

coverage

Copyright 2001 Gareth Rees.  All rights reserved.
Copyright 2004-2017 Ned Batchelder.  All rights reserved.

Except where noted otherwise, this software is licensed under the Apache
License, Version 2.0 (the "License"); you may not use this work except in
compliance with the License.  You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
```

```
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
```

```
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS
IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


----------------------------------------------
decorator

Copyright (c) 2005-2017, Michele Simionato
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  Redistributions of source code must retain the above copyright
```

```
  notice, this list of conditions and the following disclaimer.
  Redistributions in bytecode form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-------------------------------------------------------

docutils

==================
 Copying Docutils
==================

:Author: David Goodger
:Contact: goodger@python.org
:Date: $Date: 2015-05-08 17:56:32 +0200 (Fr, 08 Mai 2015) $
:Web site: http://docutils.sourceforge.net/
:Copyright: This document has been placed in the public domain.

Most of the files included in this project have been placed in the
public domain, and therefore have no license requirements and no
restrictions on copying or usage; see the `Public Domain Dedication`_
below.  There are a few exceptions_, listed below.
Files in the Sandbox_ are not distributed with Docutils releases and
may have different license terms.


Public Domain Dedication
========================

The persons who have associated their work with this project (the
"Dedicator": David Goodger and the many contributors to the Docutils
project) hereby dedicate the entire copyright, less the exceptions_
listed below, in the work of authorship known as "Docutils" identified
below (the "Work") to the public domain.

The primary repository for the Work is the Internet World Wide Web
site <http://docutils.sourceforge.net/>.  The Work consists of the
files within the "docutils" module of the Docutils project Subversion
repository (Internet host docutils.svn.sourceforge.net, filesystem path
/svnroot/docutils), whose Internet web interface is located at
<http://docutils.svn.sourceforge.net/viewvc/docutils/>.  Files dedicated to
 the
public domain may be identified by the inclusion, near the beginning
of each file, of a declaration of the form::

    Copyright: This document/module/DTD/stylesheet/file/etc. has been
               placed in the public domain.

Dedicator makes this dedication for the benefit of the public at large
```

```
and to the detriment of Dedicator's heirs and successors.  Dedicator
intends this dedication to be an overt act of relinquishment in
perpetuity of all present and future rights under copyright law,
whether vested or contingent, in the Work.  Dedicator understands that
such relinquishment of all rights includes the relinquishment of all
rights to enforce (by lawsuit or otherwise) those copyrights in the
Work.

Dedicator recognizes that, once placed in the public domain, the Work
may be freely reproduced, distributed, transmitted, used, modified,
built upon, or otherwise exploited by anyone for any purpose,
commercial or non-commercial, and in any way, including by methods
that have not yet been invented or conceived.

(This dedication is derived from the text of the `Creative Commons
Public Domain Dedication`. [#]_)

.. [#] Creative Commons has `retired this legal tool`__ and does not
   recommend that it be applied to works: This tool is based on United
   States law and may not be applicable outside the US. For dedicating new
   works to the public domain, Creative Commons recommend the replacement
   Public Domain Dedication CC0_ (CC zero, "No Rights Reserved"). So does
   the Free Software Foundation in its license-list_.

   __  http://creativecommons.org/retiredlicenses
   .. _CC0: http://creativecommons.org/about/cc0

Exceptions
==========

The exceptions to the `Public Domain Dedication`_ above are:

* docutils/writers/s5_html/themes/default/iepngfix.htc:

      IE5.5+ PNG Alpha Fix v1.0 by Angus Turnbull
      <http://www.twinhelix.com>.  Free usage permitted as long as
      this notice remains intact.

* docutils/utils/math/__init__.py,
  docutils/utils/math/latex2mathml.py,
  docutils/writers/xetex/__init__.py,
  docutils/writers/latex2e/docutils-05-compat.sty,
  docs/user/docutils-05-compat.sty.txt,
  docutils/utils/error_reporting.py,
  docutils/test/transforms/test_smartquotes.py:

  Copyright © Günter Milde.
  Released under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

* docutils/utils/smartquotes.py

  Copyright © 2011 Günter Milde,
  based on `SmartyPants`_ © 2003 John Gruber
  (released under a 3-Clause BSD license included in the file)
  and smartypants.py © 2004, 2007 Chad Miller.
  Released under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

  .. _SmartyPants: http://daringfireball.net/projects/smartypants/

* docutils/utils/math/math2html.py,
  docutils/writers/html4css1/math.css
```

```
  Copyright © Alex Fernández
  These files are part of eLyXer_, released under the `GNU
  General Public License`_ version 3 or later. The author relicensed
  them for Docutils under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

  .. _eLyXer: http://www.nongnu.org/elyxer/

* docutils/utils/roman.py, copyright by Mark Pilgrim, released under the
  `Python 2.1.1 license`_ (`local copy`__).

  __ licenses/python-2-1-1.txt

* tools/editors/emacs/rst.el, copyright by Free Software Foundation,
  Inc., released under the `GNU General Public License`_ version 3 or
  later (`local copy`__).

  __ licenses/gpl-3-0.txt

The `2-Clause BSD license`_ and the Python licenses are OSI-approved_
and GPL-compatible_.

Plaintext versions of all the linked-to licenses are provided in the
licenses_ directory.

.. _sandbox: http://docutils.sourceforge.net/sandbox/README.html
.. _licenses: licenses/
.. _Python 2.1.1 license: http://www.python.org/2.1.1/license.html
.. _GNU General Public License: http://www.gnu.org/copyleft/gpl.html
.. _2-Clause BSD license: http://www.spdx.org/licenses/BSD-2-Clause
.. _OSI-approved: http://opensource.org/licenses/
.. _license-list:
.. _GPL-compatible: http://www.gnu.org/licenses/license-list.html


---------------------------------------------------------------------------

enum-compat
Author: Jakub Stasiak

Copyright <YEAR> <COPYRIGHT HOLDER>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------

enum34
```

```
Author: Ethan Furman

Copyright (c) 2013, Ethan Furman.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    Redistributions of source code must retain the above
    copyright notice, this list of conditions and the
    following disclaimer.

    Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name Ethan Furman nor the names of any
    contributors may be used to endorse or promote products
    derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


------------------------------------------------------------------------------

eventlet

Unless otherwise noted, the files in Eventlet are under the following MIT
 license:

Copyright (c) 2005-2006, Bob Ippolito
Copyright (c) 2007-2010, Linden Research, Inc.
Copyright (c) 2008-2010, Eventlet Contributors (see AUTHORS)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


------------------------------------------------------------

execnet


  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
  SOFTWARE.



------------------------------------------------------------

flake8

Copyright (C) 2011-2013 Tarek Ziade <tarek@ziade.org>
Copyright (C) 2012-2016 Ian Cordasco <graffatcolmingov@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



------------------------------------------------------------

flask

Copyright (c) 2015 by Armin Ronacher and contributors.  See AUTHORS
for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-------------------------------------------------------------------

funcsigs

funcsigs is a derived work of CPython under the terms of the PSF License
 Agreement. The original CPython inspect module, its unit tests and
 documentation are the copyright of the Python Software Foundation. The
 derived work is distributed under the Apache License Version 2.0.



PSF LICENSE AGREEMENT FOR PYTHON 3.6.3

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   3.6.3 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
```

```
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 3.6.3 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2017 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 3.6.3 alone or in any derivative version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 3.6.3 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
   agrees to include in any such work a brief summary of the changes made to
 Python
   3.6.3.

4. PSF is making Python 3.6.3 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 3.6.3 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 3.6.3
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 3.6.3, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 3.6.3, Licensee agrees
   to be bound by the terms and conditions of this License Agreement.



Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
```

```
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
```

```
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


-----------------------------------------------------------------------------

greenlet

The following files are derived from Stackless Python and are subject to the
same license as Stackless Python:

 slp_platformselect.h
 files in platform/ directory

See LICENSE.PSF and http://www.stackless.com/ for details.
```

```
Unless otherwise noted, the files in greenlet have been released under the
following MIT license:

Copyright (c) Armin Rigo, Christian Tismer and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011 Python Software Foundation; All Rights Reserved" are retained in Python
alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
```

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

---

html5lib

Copyright (c) 2006-2013 James Graham and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

httpbin

ISC License

Copyright (c) 2017 Kenneth Reitz.

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

---

imagesize

Copyright © 2016 Yoshiki Shibukawa

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the “Software”), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------

itsdangerous

Copyright (c) 2011 by Armin Ronacher and the Django Software Foundation.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------------

jinja2

Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------

markupsafe

Copyright (c) 2010 by Armin Ronacher and contributors.  See AUTHORS
for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
```

```
-------------------------------------------------------------------

mccabe

Copyright © <year> Ned Batchelder
Copyright © 2011-2013 Tarek Ziade <tarek@ziade.org>
Copyright © 2013 Florent Xicluna <florent.xicluna@gmail.com>

Licensed under the terms of the Expat License

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

--------------------------------------------------------------------

mock

Copyright (c) 2003-2013, Michael Foord & the mock team
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

pbr
```

```
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
```

```
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
```

```
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.



---------------------------------------------------------------------

pluggy

The MIT License (MIT)

Copyright (c) 2015 holger krekel (rather uses bitbucket/hpk42)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


-------------------------------------------------------------------

py

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------

pycodestyle

Copyright © 2006-2009 Johann C. Rocholl <johann@rocholl.net>
Copyright © 2009-2014 Florent Xicluna <florent.xicluna@gmail.com>
Copyright © 2014-2016 Ian Lee <IanLee1521@gmail.com>

Licensed under the terms of the Expat License

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
```

```
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

---------------------------------------------------------------------

pycodeflakes

Copyright 2005-2011 Divmod, Inc.
Copyright 2013-2014 Florent Xicluna

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------------------------------------------

pygments

Copyright (c) 2006-2017 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------

pytest

The MIT License (MIT)

Copyright (c) 2004-2017 Holger Krekel and others

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------------------------------------

pytest-cov

The MIT License

Copyright (c) 2010 Meme Dough

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------------------------------

pytest-forked

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------------------------------------------------------------------

pytest-httpbin

The MIT License (MIT)

Copyright (c) 2014-2015 Kevin McCarthy

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------------------------------------------------

pytest-mock
```

```
MIT License

Copyright (c) [2016] [Bruno Oliveira]

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------------------------------------------------------------------------

pytest-xdist

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------

pytz

Copyright (c) 2003-2017 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
```

```
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


----------------------------------------------------------------------

readme_renderer

 Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
```

```
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
```

```
   incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

--------------------------------------------------------------------------------

requests

Copyright 2017 Kenneth Reitz

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
```

```
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and
```

```
    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
```

```
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.


---------------------------------------------------------------------------

six

Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------

snowballstemmer

Copyright (c) 2013, Yoshiki Shibukawa

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
```

```
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------
==============================================================================

sphinx

License for Sphinx
==================

Copyright (c) 2007-2017 by the Sphinx team (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Licenses for incorporated software
==================================

The pgen2 package, included in this distribution under the name
sphinx.pycode.pgen2, is available in the Python 2.6 distribution under
the PSF license agreement for Python:

-----------------------------------------------------------------------
Copyright © 2001-2008 Python Software Foundation; All Rights Reserved.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
   ("PSF"), and the Individual or Organization ("Licensee") accessing
   and otherwise using Python 2.6 software in source or binary form
   and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF
   hereby grants Licensee a nonexclusive, royalty-free, world-wide
   license to reproduce, analyze, test, perform and/or display
   publicly, prepare derivative works, distribute, and otherwise use
   Python 2.6 alone or in any derivative version, provided, however,
   that PSF's License Agreement and PSF's notice of copyright, i.e.,
   "Copyright © 2001-2008 Python Software Foundation; All Rights
   Reserved" are retained in Python 2.6 alone or in any derivative
```

```
   version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
   or incorporates Python 2.6 or any part thereof, and wants to make
   the derivative work available to others as provided herein, then
   Licensee hereby agrees to include in any such work a brief summary
   of the changes made to Python 2.6.

4. PSF is making Python 2.6 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY
   WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
   REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY
   PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 2.6 WILL NOT INFRINGE
   ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
   2.6 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
   AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON
   2.6, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY
   THEREOF.

6. This License Agreement will automatically terminate upon a material
   breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
   relationship of agency, partnership, or joint venture between PSF
   and Licensee.  This License Agreement does not grant permission to
   use PSF trademarks or trade name in a trademark sense to endorse or
   promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python 2.6, Licensee
   agrees to be bound by the terms and conditions of this License
   Agreement.
----------------------------------------------------------------------

The included smartypants module, included as sphinx.util.smartypants,
is available under the following license:

----------------------------------------------------------------------
SmartyPants_ license::

    Copyright (c) 2003 John Gruber
    (https://daringfireball.net/projects/smartypants/)
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    *   Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

    *   Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the following
        disclaimer in the documentation and/or other materials
        provided with the distribution.

    *   Neither the name "SmartyPants" nor the names of its
        contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

    This software is provided by the copyright holders and
    contributors "as is" and any express or implied warranties,
```

```
    including, but not limited to, the implied warranties of
    merchantability and fitness for a particular purpose are
    disclaimed. In no event shall the copyright owner or contributors
    be liable for any direct, indirect, incidental, special,
    exemplary, or consequential damages (including, but not limited
    to, procurement of substitute goods or services; loss of use,
    data, or profits; or business interruption) however caused and on
    any theory of liability, whether in contract, strict liability, or
    tort (including negligence or otherwise) arising in any way out of
    the use of this software, even if advised of the possibility of
    such damage.


smartypants.py license::

    smartypants.py is a derivative work of SmartyPants.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    *   Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

    *   Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the following
        disclaimer in the documentation and/or other materials
        provided with the distribution.

    This software is provided by the copyright holders and
    contributors "as is" and any express or implied warranties,
    including, but not limited to, the implied warranties of
    merchantability and fitness for a particular purpose are
    disclaimed. In no event shall the copyright owner or contributors
    be liable for any direct, indirect, incidental, special,
    exemplary, or consequential damages (including, but not limited
    to, procurement of substitute goods or services; loss of use,
    data, or profits; or business interruption) however caused and on
    any theory of liability, whether in contract, strict liability, or
    tort (including negligence or otherwise) arising in any way out of
    the use of this software, even if advised of the possibility of
    such damage.
-----------------------------------------------------------------------

The ElementTree package, included in this distribution in
test/etree13, is available under the following license:

-----------------------------------------------------------------------
The ElementTree toolkit is

Copyright (c) 1999-2007 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its
associated documentation, you agree that you have read, understood,
and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its
associated documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appears in all
copies, and that both that copyright notice and this permission notice
appear in supporting documentation, and that the name of Secret Labs
AB or the author not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.
```

```
SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANT- ABILITY
AND FITNESS.  IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
-----------------------------------------------------------------------

The included JQuery JavaScript library is available under the MIT
license:

-----------------------------------------------------------------------
Copyright (c) 2008 John Resig, https://jquery.com/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------

The included Underscore JavaScript library is available under the MIT
license:

-----------------------------------------------------------------------
Copyright (c) 2009 Jeremy Ashkenas, DocumentCloud

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------
```

```
The included implementation of
 NumpyDocstring._parse_numpydoc_see_also_section
was derived from code under the following license:

--------------------------------------------------------------------------------

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli
 Virtanen <pav@iki.fi>

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


==========================================================================================


tox


Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------
```

```
virtualenv

Copyright (c) 2007 Ian Bicking and Contributors
Copyright (c) 2009 Ian Bicking, The Open Planning Project
Copyright (c) 2011-2016 The virtualenv developers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------

webencodings

Copyright (c) 2012 by Simon Sapin.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------------
```

```
werkzeug

Copyright (c) 2014 by the Werkzeug Team, see AUTHORS for more details.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
```

Provider: Kenneth Reitz / Component(s): requests 2.32.3

```
Copyright: Kenneth Reitz
=== Source URL: https://github.com/psf/requests/tree/v2.32.3
License: Apache 2.0

 ./LICENSE

Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

-------------- Separator --------------

 ./ext/LICENSE

Copyright 2019 Kenneth Reitz. All rights reserved.

-------------- Separator --------------

 ./NOTICE

Requests
Copyright 2019 Kenneth Reitz

-------------- Separator --------------



Dependency: :certifi
Copyright: Kenneth Reitz
=== Source URL: https://github.com/certifi/python-certifi/tree/2024.08.30
License: MPL 2.0

 ./LICENSE

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
```

```
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $


-------------- Separator --------------

 https://www.mozilla.org/en-US/MPL/2.0/

Mozilla Public License
Version 2.0
1. Definitions
1.1. "Contributor"
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. "Incompatible With Secondary Licenses"
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. "Modifications"
```

```
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License.
 For legal entities, "You" includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 "control" means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or
```

```
under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
```

```
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
```

```
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party's negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party's ability to bring cross-claims or
 counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
```

```
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by the Mozilla Public License, v. 2.0.

-------------- Separator --------------



Dependency: :charset-normalizer
Copyright: Ahmed Tahri
=== Source URL: https://github.com/Ousret/charset_normalizer/tree/3.3.2
License: MIT

 ./LICENSE

MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


-------------- Separator --------------



Dependency: :idna
Copyright: Kim Davies
=== Source URL: https://github.com/kjd/idna/tree/v3.8
License: BSD 3-Clause

 ./LICENSE.md

BSD 3-Clause License

Copyright (c) 2013-2024, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------- Separator --------------



Dependency: :urllib3
Copyright: Andrey Petrov
=== Source URL: https://github.com/urllib3/urllib3/tree/2.2.2
License: MIT

 ./LICENSE.txt

MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Kent C. Dodds / Component(s): React Testing Library 10.4.9

```
------------------------------ Top-level license -------------------------

    == NAME OF DEPENDENCY
    . @testing-library/react@10.4.7
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT)
Copyright (c) 2017 Kent C. Dodds

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---------------------------- Fourth-party information ----------------------
=== ==========================================================================

    == NAME OF DEPENDENCY
    . @babel/runtime@7.12.5
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2014-present Sebastian McKenzie and other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
```

```
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

    ---------------------------------------------
    == NAME OF DEPENDENCY
    . aria-query@4.2.2
    == License Type
    . Apache
    == Copyright Notices And License
    . Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
```

```
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
```

```
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright 2020 A11yance

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

    ----------------------------------------------
    == NAME OF DEPENDENCY
    . dom-accessibility-api@0.5.4
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2020 Sebastian Silbermann

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

    ----------------------------------------------
    == NAME OF DEPENDENCY
    . @testing-library/dom@7.26.6
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT)
Copyright (c) 2017 Kent C. Dodds
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

    ---------------------------------------------
    == NAME OF DEPENDENCY
    . @types/aria-query@4.2.0
    == License Type
    . Apache
    == Copyright Notices And License
    .     Apache-2.0 License

    Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and
```

```
(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
```

```
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright 2020 A11yance

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
    ---------------------------------------------
    == NAME OF DEPENDENCY
    . lz-string@1.4.4
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT

    MIT License

   Copyright (c) 2013 pieroxy

   Permission is hereby granted, free of charge, to any person obtaining a
 copy
   of this software and associated documentation files (the "Software"), to
 deal
   in the Software without restriction, including without limitation the
 rights
   to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
   copies of the Software, and to permit persons to whom the Software is
   furnished to do so, subject to the following conditions:

   The above copyright notice and this permission notice shall be included
 in all
   copies or substantial portions of the Software.
```

```
   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
   IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
   FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
   AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
   LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
   OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
   SOFTWARE.

    ---------------------------------------------
    == NAME OF DEPENDENCY
    . chalk@2.4.2
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

    ---------------------------------------------
    == NAME OF DEPENDENCY
    . @babel/code-frame@7.10.4
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2014-present Sebastian McKenzie and other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
```

```
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

    ---------------------------------------------
    == NAME OF DEPENDENCY
    . regenerator-runtime@0.13.7
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2014-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

    ---------------------------------------------
    == NAME OF DEPENDENCY
    . pretty-format@23.6.0
    == License Type
    . MIT
    == Copyright Notices And License
    .
MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Kentaro Yoshida / Component(s): fluent-plugin-rewrite-tag-filter 2.4.0

```
----------++++-----fluent-plugin-rewrite-tag-filter license ---------+++
+------
Copyright (c) 2012- Kentaro Yoshida
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------+++----fluent-config-regexp-type license---------+++
+------
                                Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
    identification within third-party archives.
Copyright 2018 Kenji Okimoto <okimoto@clear-code.com>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
----------------------+++-------fluentd license ----------------------+++
+------

Fluentd (Apache 2.0)
=================
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2011-2018 Fluentd Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
4th party dependencies
=======================
=================
bundler
MIT Licese
Copyright (c) Chad Fowler, Rich Kilmer, Jim Weirich and others.
Portions copyright (c) Engine Yard and Andre Arko
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
```

```
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================
msgpack
Copyright (c) 2008-2015 Sadayuki Furuhashi

                         Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
============================
cool.io
MIT License
Copyright (c) 2007-10 Tony Arcieri
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========================================
http_parser.rb
MIT License
```

```
Copyright 2009,2010 Marc-André Cournoyer
Copyright 2010,2011 Aman Gupta
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
==============================================
serverengine
Copyright (C) 2012-2013 Sadayuki Furuhashi
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
================================================
```

```
sigdump
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2011-2018 Fluentd Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
=======================================================
strptime
BSD-2-CLAUSE
Copyright (C) 2015 NARUSE, Yui. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
```

```
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
ext/strptime/strptime.c:
  date_strptime.c: Coded by Tadayoshi Funaba 2011,2012
  Copyright (C) 2004-2007 Koichi Sasada
============================================================
tzinfo
MIT License
Copyright (c) 2005-2022 Philip Ross
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==================================================
concurrent-ruby
Copyright (c) Jerry D'Antonio -- released under the MIT license.
http://www.opensource.org/licenses/mit-license.php
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
=============================================
tzinfo-data
MIT License
Copyright (c) 2005-2022 Philip Ross
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
```

```
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==================================================
webrick
BSD-2-CLAUSE
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
==================================================
yajl-ruby
The MIT License (MIT)
Copyright (c) 2014 Brian Lopez
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
==================================================
```

Provider: Kevin B Knapp / Component(s): rust-clap-rs 2.24.1

```
The MIT License (MIT)

Copyright (c) 2015-2016 Kevin B. Knapp
 - bitflags 0.9.0 (MIT) (c) 2014 The Rust Project Developers
 - vec_map 0.1.1 (MIT) (c) 2015 The Rust Project Developers
 - unicode-width 0.1.4  (MIT) (c) 2015 The Rust Project Developers
 - unicode-segmentation  1.1.0  (MIT) (c) 2015 The Rust Project Developers
 - textwrap 0.6.0 (MIT) (c) 2016 Martin Geisler

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Kim Davies / Component(s): idna 2.8

```
Copyright (c) 2013-2018, Kim Davies. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of the
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
    THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY EXPRESS OR
 IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
```

```
Portions of the codec implementation and unit tests are derived from the
 Python standard library, which carries the Python Software Foundation
 License:

    Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved

Portions of the unit tests are derived from the Unicode standard, which is
 subject to the Unicode, Inc. License Agreement:

    Copyright (c) 1991-2014 Unicode, Inc. All rights reserved. Distributed
 under the Terms of Use in <http://www.unicode.org/copyright.html>.

    Permission is hereby granted, free of charge, to any person obtaining
 a copy of the Unicode data files and any associated documentation (the
 "Data Files") or Unicode software and any associated documentation (the
 "Software") to deal in the Data Files or Software without restriction,
 including without limitation the rights to use, copy, modify, merge,
 publish, distribute, and/or sell copies of the Data Files or Software, and
 to permit persons to whom the Data Files or Software are furnished to do
 so, provided that

    (a) this copyright and permission notice appear with all copies of the
 Data Files or Software,

    (b) this copyright and permission notice appear in associated
 documentation, and

    (c) there is clear notice in each modified Data File or in the Software
 as well as in the documentation associated with the Data File(s) or
 Software that the data or software has been modified.

    THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
 ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
 OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS
 INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT
 OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
 OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THE DATA FILES OR SOFTWARE.

    Except as contained in this notice, the name of a copyright holder
 shall not be used in advertising or otherwise to promote the sale, use
 or other dealings in these Data Files or Software without prior written
 authorization of the copyright holder.
```

Provider: Kirill Simonov / Component(s): pyyaml 3.13

```
Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Kirollos Risk / Component(s): fuse.js 3.4.6

```
fuse.js v. 3.2.1
Source URl: https://github.com/krisk/Fuse/tree/v3.2.1
license URL: https://github.com/krisk/Fuse/blob/v3.2.1/LICENSE
 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2017 Kirollos Risk

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.
Copyright URL: https://github.com/krisk/Fuse/blob/v3.2.1/COPYRIGHT.txt
Fuse.js {VERSION} - Lightweight fuzzy-search ({HOMEPAGE})

Copyright (c) 2012-2017 Kirollos Risk ({AUTHOR_URL})
All Rights Reserved. Apache Software License 2.0

http://www.apache.org/licenses/LICENSE-2.0
(NO 4th party dependencies)
```

Provider: Kohsuke Kawaguchi / Component(s): Jenkins Unit Test Harness 2.13

```
The MIT License

Copyright (c) 2004-2010, Sun Microsystems, Inc., Kohsuke Kawaguchi,
Daniel Dyer, Erik Ramfelt, Stephen Connolly, Tom Huybrechts, Alan Harder

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Kohsuke Kawaguchi / Component(s): localizer 1.23

```
The MIT License

Copyright (c) 2004-2010, Sun Microsystems, Inc., Kohsuke Kawaguchi,
Daniel Dyer, Erik Ramfelt, Stephen Connolly, Tom Huybrechts, Alan Harder

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Kohsuke Kawaguchi / Component(s): Stapler 1.237

```
Copyright (c) 2009-, Kohsuke Kawaguchi and other contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Kubernetes / Component(s): apimachinery kubernetes-1.12.0

```
k8s.io/apimachinery 1.11.1
COPYRIGHT: Copyright 2014 - 2018 The Kubernetes Authors.
LICENSE: Apache 2.0
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


===========================
```

```
4P Dependencies:


github.com/gogo/protobuf commit c0656edd0d9eab7c66d1eb0c568f9039345796f7
COPYRIGHT and LICENSE:
Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
github.com/golang/glog commit 44145f04b68cf362d9c4df2182967c2275eaefed
COPYRIGHT and LICENSE:
Copyright (c) 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


A function gettimeofday in utilities.cc is based on

http://www.google.com/codesearch/p?hl=en#dR3YEbitojA/
COPYING&q=GetSystemTimeAsFileTime%20license:bsd

The license of this code is:

Copyright (c) 2003-2008, Jouni Malinen <j@w1.fi> and contributors
All Rights Reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name(s) of the above-listed copyright holder(s) nor the
   names of its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
github.com/google/gofuzz commit 44d81051d367757e1c7c6a5a86423ece9afcf63c
COPYRIGHT: Copyright 2014 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/google/gofuzz/
blob/44d81051d367757e1c7c6a5a86423ece9afcf63c/LICENSE


---
github.com/spf13/pflag commit 583c0c0531f06d5278b7d917446061adc344b5cd
COPYRIGHT and LICENSE:
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
golang.org/x/net commit 1c05540f6879653db88113bc4a2b70aec4bd491f
golang.org/x/text commit b19bf474d317b857955b12035d2c5acb57ce8b01
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
gopkg.in/inf.v0 commit 3887ee99ecf07df5b447e9b00d9c0b2adaa9f3e4
COPYRIGHT and LICENSE:
Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
```

```
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
github.com/ghodss/yaml commit 73d445a93680fa1a78ae23a5839bad48f32ba1ee
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
github.com/json-iterator/go commit f2b4162afba35581b6d4a50d3b8f34e33c144682
COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---
github.com/modern-go/concurrent commit
 bacd9c7ef1dd9b15be4a9909b8ac7a4e313eec94
No Copyright info
LICENSE: Apache 2.0  https://github.com/modern-go/concurrent/blob/
bacd9c7ef1dd9b15be4a9909b8ac7a4e313eec94/LICENSE

---
github.com/modern-go/reflect2 commit
 05fbef0ca5da472bbf96c9322b84a53edc03c9fd
```

```
No Copyright info
LICENSE: Apache 2.0 https://github.com/modern-go/reflect2/
blob/05fbef0ca5da472bbf96c9322b84a53edc03c9fd/LICENSE


---
gopkg.in/yaml.v2 commit 670d4cfef0544295bc27a114dbac37980d83185a
COPYRIGHT and LICENSE:
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

===
The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
    yamlh.go
    yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
---
github.com/davecgh/go-spew commit 782f4967f2dc4564575ca782fe2d04090b5faca8
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


---
github.com/googleapis/gnostic commit
 0c5108395e2debce0d731cf0287ddf7242066aba
COPYRIGHT:  Copyright 2017 Google Inc. All Rights Reserved.
LICENSE: Apache 2.0 https://github.com/googleapis/gnostic/
blob/0c5108395e2debce0d731cf0287ddf7242066aba/LICENSE


---
k8s.io/kube-openapi commit 39cb288412c48cb533ba4be5d6c28620b9a0c1b4
COPYRIGHT: Copyright 2016 - 2018 The Kubernetes Authors.
LICENSE: Apache 2.0 https://github.com/kubernetes/kube-openapi/blob/master/
LICENSE
```

Provider: Kubernetes / Component(s): Kubernetes 1.11.1

```
Kubernetes 1.11.1 and the following 4th party are under the Apache 2.0
 License Listed in full below:

google.golang.org/grpc v1.7.5
google.golang.org/genproto
gopkg.in/square/go-jose.v2 v2.1.3
github.com/kubernetes/repo-infra
github.com/prometheus/procfs
github.com/prometheus/client_golang v0.8.0-83-ge7e9030
github.com/prometheus/client_model model-0.0.2-12-gfa8ad6f
github.com/prometheus/common
github.com/modern-go/concurrent 1.0.3
github.com/modern-go/reflect2 1.0.0-9-g05fbef0
github.com/xanzy/go-cloudstack v2.1.1-1-g1e2cbf6
github.com/xanzy/go-cloudstack/cloudstack v2.1.1-1-g1e2cbf6
github.com/clusterhq/flocker-go
github.com/containernetworking/cni v0.6.0
github.com/docker/go-units v0.3.1-11-g9e638d3
github.com/docker/docker docs-v1.12.0-rc4-2016-07-15-7401-g4f3616fb1
github.com/docker/libtrust
github.com/docker/spdystream
github.com/docker/libnetwork v0.8.0-dev.2-910-gba46b928
github.com/docker/go-connections v0.3.0
github.com/docker/distribution v2.6.0-rc.1-209-gedc3ab29
github.com/euank/go-kmsg-parser v2.0.0
github.com/cockroachdb/cmux
```

```
github.com/codedellemc/goscaleio
github.com/vishvananda/netns
github.com/vishvananda/netlink
github.com/pquerna/cachecontrol
github.com/grpc-ecosystem/go-grpc-prometheus v1.1-4-g2500245
github.com/mindprince/gonvml
github.com/matttproud/golang_protobuf_extensions
github.com/coreos/rkt v1.25.0
github.com/coreos/pkg v2-8-gfa29b1d
github.com/coreos/go-systemd v14
github.com/coreos/etcd v3.2.13
github.com/coreos/go-semver
github.com/coreos/go-oidc
github.com/vmware/photon-controller-go-sdk PROMOTED-488
github.com/golang/mock
github.com/golang/glog
github.com/golang/groupcache
github.com/go-openapi/analysis
github.com/go-openapi/validate
github.com/go-openapi/jsonpointer
github.com/go-openapi/spec
github.com/go-openapi/runtime
github.com/go-openapi/jsonreference
github.com/go-openapi/loads
github.com/go-openapi/errors
github.com/go-openapi/strfmt
github.com/go-openapi/swag
github.com/containerd/console
github.com/mrunalp/fileutils
github.com/container-storage-interface/spec v0.3.0
github.com/jonboulle/clockwork
github.com/lpabon/godbc v1.0-1-g9577782
github.com/rancher/go-rancher v0.1.0-196-g09693a8
github.com/libopenstorage/openstorage
github.com/bazelbuild/bazel-gazelle 0.10.1
github.com/google/gofuzz
github.com/google/certificate-transparency-go v1.0.10
github.com/google/btree
github.com/Azure/go-autorest v10.6.2
github.com/Azure/azure-sdk-for-go v14.6.0
github.com/opencontainers/runc v1.0.0-rc5-46-g871ba2e5
github.com/opencontainers/runtime-spec v1.0.0
github.com/opencontainers/image-spec v1.0.0-rc6-12-g372ad78
github.com/opencontainers/selinux v1.0.0-rc1-5-g4a2974b
github.com/abbot/go-http-auth
github.com/googleapis/gnostic
github.com/mistifyio/go-zfs v2.1.1-5-g1b4ae6f
github.com/go-ini/ini v1.25.4
cloud.google.com/go v0.1.0-115-g3b1ae45
k8s.io/sample-apiserver
k8s.io/apimachinery
k8s.io/metrics
k8s.io/client-go
k8s.io/sample-controller
k8s.io/apiserver
k8s.io/api
k8s.io/code-generator
k8s.io/kube-aggregator
k8s.io/apiextensions-apiserver
k8s.io/utils
k8s.io/gengo
k8s.io/heapster v1.2.0-beta.1
k8s.io/kube-openapi
intemp
```

```
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
```

```
   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------------------------------------


github.com/json-iterator/go 1.1.3-22-gf2b4162


MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------


github.com/cloudflare/cfssl 1.3.1


Copyright (c) 2014 CloudFlare Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
```

```
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/d2g/dhcp4


Copyright (c) 2013 Skagerrak Software Limited. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Skagerrak Software Limited nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------


github.com/spf13/pflag v1.0.1


Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
```

```
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


gopkg.in/yaml.v2


Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------


swagger-ui


Copyright 2014 Reverb Technologies, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at [apache.org/licenses/LICENSE-2.0]
(http://www.apache.org/licenses/LICENSE-2.0)

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------


github.com/gophercloud/gophercloud


Copyright 2012-2013 Rackspace, Inc.
```

```
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License.  You may obtain a copy of
 the
License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.  See the License for the
specific language governing permissions and limitations under the License.


------

    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
```

```
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
```

```
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

--------------------------------------------------------------------------------


github.com/bazelbuild/buildtools 0.6.0-60-g1a9c38e


Copyright 2016 Google Inc. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------


github.com/d2g/dhcp4client
github.com/hashicorp/hcl
github.com/hashicorp/golang-lru


Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or
```

```
     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.

1.8. “License”

     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.

1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
```

```
     controlled by, or is under common control with You. For purposes of
 this
     definition, “control” means (a) the power, direct or indirect, to
 cause
     the direction or management of such entity, whether by contract or
     otherwise, or (b) ownership of more than fifty percent (50%) of the
     outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

    Each Contributor hereby grants You a world-wide, royalty-free,
    non-exclusive license:

    a. under intellectual property rights (other than patent or trademark)
       Licensable by such Contributor to use, reproduce, make available,
       modify, display, perform, distribute, and otherwise exploit its
       Contributions, either on an unmodified basis, with Modifications, or
 as
       part of a Larger Work; and

    b. under Patent Claims of such Contributor to make, use, sell, offer
 for
       sale, have made, import, and otherwise transfer either its
 Contributions
       or its Contributor Version.

2.2. Effective Date

    The licenses granted in Section 2.1 with respect to any Contribution
 become
    effective for each Contribution on the date the Contributor first
 distributes
    such Contribution.

2.3. Limitations on Grant Scope

    The licenses granted in this Section 2 are the only rights granted
 under this
    License. No additional rights or licenses will be implied from the
 distribution
    or licensing of Covered Software under this License. Notwithstanding
 Section
    2.1(b) above, no patent license is granted by a Contributor:

    a. for any code that a Contributor has removed from Covered Software;
 or

    b. for infringements caused by: (i) Your and any other third party’s
       modifications of Covered Software, or (ii) the combination of its
       Contributions with other software (except as part of its Contributor
       Version); or

    c. under Patent Claims infringed by Covered Software in the absence of
 its
       Contributions.

    This License does not grant any rights in the trademarks, service
 marks, or
    logos of any Contributor (except as may be necessary to comply with the
    notice requirements in Section 3.4).
```

```
2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.
```

```
3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
```

```
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
```

```
  party’s negligence to the extent applicable law prohibits such
 limitation.
  Some jurisdictions do not allow the exclusion or limitation of incidental
 or
  consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation

  Any litigation relating to this License may be brought only in the courts
 of
  a jurisdiction where the defendant maintains its principal place of
 business
  and such litigation shall be governed by laws of that jurisdiction,
 without
  reference to its conflict-of-law provisions. Nothing in this Section
 shall
  prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

  This License represents the complete agreement concerning the subject
 matter
  hereof. If any provision of this License is held to be unenforceable,
 such
  provision shall be reformed only to the extent necessary to make it
  enforceable. Any law or regulation which provides that the language of a
  contract shall be construed against the drafter shall not be used to
 construe
  this License against a Contributor.


10. Versions of the License

10.1. New Versions

     Mozilla Foundation is the license steward. Except as provided in
 Section
     10.3, no one other than the license steward has the right to modify or
     publish new versions of this License. Each version will be given a
     distinguishing version number.

10.2. Effect of New Versions

     You may distribute the Covered Software under the terms of the version
 of
     the License under which You originally received the Covered Software,
 or
     under the terms of any subsequent version published by the license
     steward.

10.3. Modified Versions

     If you create software not governed by this License, and you want to
     create a new license for such software, you may create and use a
 modified
     version of this License if you rename the license and remove any
     references to the name of the license steward (except to note that
 such
     modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
     If You choose to distribute Source Code Form that is Incompatible With
```

```
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
      obtain one at
      http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

      This Source Code Form is "Incompatible
      With Secondary Licenses", as defined by
      the Mozilla Public License, v. 2.0.


--------------------------------------------------------------------------------


github.com/syndtr/gocapability


Copyright 2013 Suryandaru Triandana <syndtr@gmail.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/magiconair/properties v1.7.0-4-g61b492c
```

```
goproperties - properties file decoder for Go

Copyright (c) 2013-2014 - Frank Schroeder

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


gopkg.in/warnings.v0 v0.1.1


Copyright (c) 2016 Péter Surányi.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
```

```
golang.org/x/oauth2


Copyright (c) 2009 The oauth2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/heketi/heketi v4.0.0-95-gaaf4061


Heketi code is released under various licenses:

The REST API client code (in go and python) is released
under a dual license of Apache 2.0 or LGPLv3+.

The other parts of heketi (server, cli, tests, ...) are released
under a dual license of LGPLv3+ or GPLv2.

--------------------------------------------------------------------------------


github.com/cyphar/filepath-securejoin v0.2.1-1-gae69057


Copyright (C) 2014-2015 Docker Inc & Go Authors. All rights reserved.
Copyright (C) 2017 SUSE LLC. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
```

```
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/blang/semver v3.5.0


The MIT License

Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


--------------------------------------------------------------------------------


github.com/godbus/dbus v3


Copyright (c) 2013, Georg Reinke (<guelfey at gmail dot com>), Google
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/pkg/errors v0.8.0


Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/miekg/dns


Extensions of the original work are copyright (c) 2011 Miek Gieben

As this is fork of the official Go code the same license applies:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------


github.com/golang/protobuf v1.1.0


Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
--------------------------------------------------------------------------------


github.com/mvdan/xurls v0.8.0-14-g1b768d7


Copyright (c) 2015, Daniel Martí. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/davecgh/go-spew v1.1.0-1-g782f496


ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

--------------------------------------------------------------------------------


github.com/google/cadvisor v0.30.2


   Copyright 2014 The cAdvisor Authors
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
```

```
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
```

```
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

-------------------------------------------------------------------------------
```

```
gopkg.in/square/go-jose.v2/json v2.1.3
github.com/fsnotify/fsnotify v1.3.1-1-gf12c623
github.com/kardianos/osext
github.com/PuerkitoBio/urlesc
github.com/vmware/govmomi/vim25/xml v0.17.1-46-ge70dd44
github.com/kr/fs
golang


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/pmezard/go-difflib


Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
    The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
```

```
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/evanphx/json-patch v3.0.0-23-g94e38aa


Copyright (c) 2014, Evan Phoenix
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the Evan Phoenix nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/emicklei/go-restful 2.2.0-4-gff4f55a


Copyright (c) 2012,2013 Ernest Micklei

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
```

```
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------


github.com/mxk/go-flowrate


Copyright (c) 2014 The Go-FlowRate Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the
   distribution.

 * Neither the name of the go-flowrate project nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/seccomp/libseccomp-golang


Copyright (c) 2015 Matthew Heon <mheon@redhat.com>
Copyright (c) 2015 Paul Moore <pmoore@redhat.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
- Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/onsi/gomega v1.0-122-gd59fa0a
github.com/onsi/ginkgo v1.2.0-95-g67b9df7


Copyright (c) 2013-2014 Onsi Fakhouri

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/mailru/easyjson


Copyright (c) 2016 Mail.Ru Group

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
```

```
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/imdario/mergo 0.1.3-8-g6633656


Copyright (c) 2013 Dario Castañé. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/jteeuwen/go-bindata v3.0.7-72-ga0ff256


This work is subject to the CC0 1.0 Universal (CC0 1.0) Public Domain
 Dedication
license. Its contents can be found at:
http://creativecommons.org/publicdomain/zero/1.0

--------------------------------------------------------------------------------


golang.org/x/tools
golang.org/x/net
golang.org/x/crypto
golang.org/x/exp
golang.org/x/text
golang.org/x/sys
golang.org/x/time


Copyright (c) 2009 The Go Authors. All rights reserved.
```

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

google.golang.org/api

Copyright (c) 2011 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
github.com/beorn7/perks


Copyright (C) 2013 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/pkg/sftp


Copyright (c) 2013, Dave Cheney
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/daviddengcn/go-colortext


BSD License
===========

Copyright (c) 2016, David Deng
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of go-colortext nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


MIT License
===========

Copyright (c) 2016 David Deng

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------


github.com/quobyte/api
```

```
Copyright (c) 2016, Quobyte Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of quobyte-automation nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/jmespath/go-jmespath 0.2.2-12-g0b12d6b


Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------


github.com/inconshreveable/mousetrap v1.0


Copyright 2014 Alan Shreve

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
```

```
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------


vbom.ml/util
gopkg.in/natefinch/lumberjack.v2 v1.0-16-g20b71e5
bitbucket.org/bertimus9/systemstat
github.com/MakeNowJust/heredoc
github.com/mattn/go-shellwords v1.0.3-20-gf8471b0
github.com/mitchellh/mapstructure
github.com/armon/circbuf
github.com/client9/misspell v0.3.0-7-g9ce5d97
github.com/renstrom/dedent v1.0.0-3-g020d11c
github.com/Microsoft/hcsshim v0.6.11
github.com/Microsoft/go-winio v0.4.5
github.com/ugorji/go
github.com/mohae/deepcopy
github.com/coreos/bbolt v1.3.1-coreos.6
github.com/xiang90/probing 0.0.1
github.com/onsi/ginkgo/reporters/stenographer/support/go-colorable
 v1.2.0-95-g67b9df7
github.com/exponent-io/jsonpath
github.com/spf13/jwalterweatherman
github.com/spf13/viper
github.com/spf13/cast
github.com/ghodss/yaml
github.com/rubiojr/go-vhd
github.com/pelletier/go-toml v1.0.1
github.com/sirupsen/logrus v1.0.3-11-g89742ae
github.com/influxdata/influxdb v1.1.1
github.com/Azure/go-ansiterm
github.com/asaskevich/govalidator v4-12-g593d645


The MIT License (MIT)
Copyright (c) 2015 Frits van Bommel
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
--------------------------------------------------------------------------------


github.com/gorilla/websocket


Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

  Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/elazarl/goproxy v1.0-104-gc4fc265


Copyright (c) 2012 Elazar Leibovich. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Elazar Leibovich. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


gopkg.in/gcfg.v1 v1.2.0
gopkg.in/inf.v0 v0.9.0


Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/gogo/protobuf v0.4-3-gc0656edd


Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
```

```
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------


github.com/stretchr/testify v1.2.1-14-gc679ae2


Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell

Please consider promoting this project if you find it useful.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/elazarl/go-bindata-assetfs


Copyright (c) 2014, Elazar Leibovich
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
```

```
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/emicklei/go-restful-swagger12 1.0.1


Copyright (c) 2017 Ernest Micklei

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------


github.com/JeffAshton/win_pdh


Copyright (c) 2010 The win_pdh Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products
```

```
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHORS ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/onsi/ginkgo/reporters/stenographer/support/go-isatty v1.2.0-95-
g67b9df7


Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

MIT License (Expat)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


gonum/graph


Copyright ©2013 The gonum Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the gonum project nor the names of its authors and
      contributors may be used to endorse or promote products derived from
 this
      software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------


github.com/PuerkitoBio/purell v1.0.0


Copyright (c) 2012, Martin Angers
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the author nor the names of its contributors may be
 used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/peterbourgon/diskv v2.0.1


Copyright (c) 2011-2012 Peter Bourgon

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
```

```
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/chai2010/gettext-go


Copyright 2013 ChaiShushan <chaishushan{AT}gmail.com>. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/satori/go.uuid v1.1.0


Copyright (C) 2013-2016 by Maxim Bublis <b@codemonkey.ru>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/Nvveen/Gotty


Copyright (c) 2012, Neal van Veen (nealvanveen@gmail.com)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are
 those
of the authors and should not be interpreted as representing official
 policies,
either expressed or implied, of the FreeBSD Project.

--------------------------------------------------------------------------------


github.com/shurcooL/sanitized_anchor_name


Copyright (c) 2015 Dmitri Shuralyov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/dgrijalva/jwt-go v3.0.0-4-g01aeca5


Copyright (c) 2012 Dave Grijalva

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------


github.com/pborman/uuid
github.com/google/uuid 0.2-15-g8c31c18


Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


google.golang.org/api/googleapi/internal/uritemplates


Copyright (c) 2013 Joshua Tacoma

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


shell2junit


           Shell2Junit License Information

Feb, 2010

shell2junit library and sample code is licensed under Apache License, v.2.0.

(c) 2009 Manolo Carrasco (Manuel Carrasco Moñino)

=====

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
```

```
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty
 percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source,
 and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
or translation of a Source form, including but not limited to compiled
object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that
 is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as
 a
whole, an original work of authorship. For the purposes of this License,
Derivative Works shall not include works that remain separable from, or
merely link (or bind by name) to the interfaces of, the Work and Derivative
Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
purposes of this definition, "submitted" means any form of electronic,
verbal, or written communication sent to the Licensor or its
representatives, including but not limited to communication on electronic
mailing lists, source code control systems, and issue tracking systems that
are managed by, or on behalf of, the Licensor for the purpose of discussing
and improving the Work, but excluding communication that is conspicuously
marked or otherwise designated in writing by the copyright owner as "Not a
Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
behalf of whom a Contribution has been received by Licensor and
 subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
```

```
License, each Contributor hereby grants to You a perpetual, worldwide,
non-exclusive, no-charge, royalty-free, irrevocable copyright license to
reproduce, prepare Derivative Works of, publicly display, publicly perform,
sublicense, and distribute the Work and such Derivative Works in Source or
Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide,
non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
this section) patent license to make, have made, use, offer to sell, sell,
import, and otherwise transfer the Work, where such license applies only to
those patent claims licensable by such Contributor that are necessarily
infringed by their Contribution(s) alone or by combination of their
Contribution(s) with the Work to which such Contribution(s) was submitted.
If You institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or
 contributory
patent infringement, then any patent licenses granted to You under this
License for that Work shall terminate as of the date such litigation is
filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
Derivative Works thereof in any medium, with or without modifications, and
in Source or Object form, provided that You meet the following conditions:

a. You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

b. You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

c. You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
the Source form of the Work, excluding those notices that do not pertain to
any part of the Derivative Works; and

d. If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
of the attribution notices contained within such NOTICE file, excluding
those notices that do not pertain to any part of the Derivative Works, in
 at
least one of the following places: within a NOTICE text file distributed as
part of the Derivative Works; within the Source form or documentation, if
provided along with the Derivative Works; or, within a display generated by
the Derivative Works, if and wherever such third-party notices normally
appear. The contents of the NOTICE file are for informational purposes only
and do not modify the License. You may add Your own attribution notices
within Derivative Works that You distribute, alongside or as an addendum to
the NOTICE text from the Work, provided that such additional attribution
notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
provide additional or different license terms and conditions for use,
reproduction, or distribution of Your modifications, or for any such
Derivative Works as a whole, provided Your use, reproduction, and
distribution of the Work otherwise complies with the conditions stated in
this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any
Contribution intentionally submitted for inclusion in the Work by You to
 the
```

```
Licensor shall be under the terms and conditions of this License, without
any additional terms or conditions. Notwithstanding the above, nothing
herein shall supersede or modify the terms of any separate license
 agreement
you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor, except
as required for reasonable and customary use in describing the origin of
 the
Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in
writing, Licensor provides the Work (and each Contributor provides its
Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
KIND, either express or implied, including, without limitation, any
warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or
FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining
the appropriateness of using or redistributing the Work and assume any
 risks
associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether
in tort (including negligence), contract, or otherwise, unless required by
applicable law (such as deliberate and grossly negligent acts) or agreed to
in writing, shall any Contributor be liable to You for damages, including
any direct, indirect, special, incidental, or consequential damages of any
character arising as a result of this License or out of the use or
 inability
to use the Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all other
commercial damages or losses), even if such Contributor has been advised of
the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work
or Derivative Works thereof, You may choose to offer, and charge a fee for,
acceptance of support, warranty, indemnity, or other liability obligations
and/or rights consistent with this License. However, in accepting such
obligations, You may act only on Your own behalf and on Your sole
responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
liability incurred by, or claims asserted against, such Contributor by
reason of your accepting any such warranty or additional liability.


--------------------------------------------------------------------------------


github.com/robfig/cron v1-53-gdf38d32


Copyright (C) 2012 Rob Figueiredo
All Rights Reserved.

MIT LICENSE

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
```

```
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


--END--
```

Provider: Kubernetes / Component(s): Kubernetes 1.11.3

```
Kubernetes 1.11.1 and the following 4th party are under the Apache 2.0
 License Listed in full below:

google.golang.org/grpc v1.7.5
google.golang.org/genproto
gopkg.in/square/go-jose.v2 v2.1.3
github.com/kubernetes/repo-infra
github.com/prometheus/procfs
github.com/prometheus/client_golang v0.8.0-83-ge7e9030
github.com/prometheus/client_model model-0.0.2-12-gfa8ad6f
github.com/prometheus/common
github.com/modern-go/concurrent 1.0.3
github.com/modern-go/reflect2 1.0.0-9-g05fbef0
github.com/xanzy/go-cloudstack v2.1.1-1-g1e2cbf6
github.com/xanzy/go-cloudstack/cloudstack v2.1.1-1-g1e2cbf6
github.com/clusterhq/flocker-go
github.com/containernetworking/cni v0.6.0
github.com/docker/go-units v0.3.1-11-g9e638d3
github.com/docker/docker docs-v1.12.0-rc4-2016-07-15-7401-g4f3616fb1
github.com/docker/libtrust
github.com/docker/spdystream
github.com/docker/libnetwork v0.8.0-dev.2-910-gba46b928
github.com/docker/go-connections v0.3.0
github.com/docker/distribution v2.6.0-rc.1-209-gedc3ab29
github.com/euank/go-kmsg-parser v2.0.0
github.com/cockroachdb/cmux
github.com/codedellemc/goscaleio
github.com/vishvananda/netns
github.com/vishvananda/netlink
github.com/pquerna/cachecontrol
github.com/grpc-ecosystem/go-grpc-prometheus v1.1-4-g2500245
github.com/mindprince/gonvml
github.com/matttproud/golang_protobuf_extensions
github.com/coreos/rkt v1.25.0
github.com/coreos/pkg v2-8-gfa29b1d
```

```
github.com/coreos/go-systemd v14
github.com/coreos/etcd v3.2.13
github.com/coreos/go-semver
github.com/coreos/go-oidc
github.com/vmware/photon-controller-go-sdk PROMOTED-488
github.com/golang/mock
github.com/golang/glog
github.com/golang/groupcache
github.com/go-openapi/analysis
github.com/go-openapi/validate
github.com/go-openapi/jsonpointer
github.com/go-openapi/spec
github.com/go-openapi/runtime
github.com/go-openapi/jsonreference
github.com/go-openapi/loads
github.com/go-openapi/errors
github.com/go-openapi/strfmt
github.com/go-openapi/swag
github.com/containerd/console
github.com/mrunalp/fileutils
github.com/container-storage-interface/spec v0.3.0
github.com/jonboulle/clockwork
github.com/lpabon/godbc v1.0-1-g9577782
github.com/rancher/go-rancher v0.1.0-196-g09693a8
github.com/libopenstorage/openstorage
github.com/bazelbuild/bazel-gazelle 0.10.1
github.com/google/gofuzz
github.com/google/certificate-transparency-go v1.0.10
github.com/google/btree
github.com/Azure/go-autorest v10.6.2
github.com/Azure/azure-sdk-for-go v14.6.0
github.com/opencontainers/runc v1.0.0-rc5-46-g871ba2e5
github.com/opencontainers/runtime-spec v1.0.0
github.com/opencontainers/image-spec v1.0.0-rc6-12-g372ad78
github.com/opencontainers/selinux v1.0.0-rc1-5-g4a2974b
github.com/abbot/go-http-auth
github.com/googleapis/gnostic
github.com/mistifyio/go-zfs v2.1.1-5-g1b4ae6f
github.com/go-ini/ini v1.25.4
cloud.google.com/go v0.1.0-115-g3b1ae45
k8s.io/sample-apiserver
k8s.io/apimachinery
k8s.io/metrics
k8s.io/client-go
k8s.io/sample-controller
k8s.io/apiserver
k8s.io/api
k8s.io/code-generator
k8s.io/kube-aggregator
k8s.io/apiextensions-apiserver
k8s.io/utils
k8s.io/gengo
k8s.io/heapster v1.2.0-beta.1
k8s.io/kube-openapi
intemp



                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
```

```
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------------------------------------


github.com/json-iterator/go 1.1.3-22-gf2b4162


MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------


github.com/cloudflare/cfssl 1.3.1


Copyright (c) 2014 CloudFlare Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
```

```
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/d2g/dhcp4


Copyright (c) 2013 Skagerrak Software Limited. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Skagerrak Software Limited nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------


github.com/spf13/pflag v1.0.1


Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------


gopkg.in/yaml.v2


Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-------------------------------------------------------------------------------


swagger-ui


Copyright 2014 Reverb Technologies, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at [apache.org/licenses/LICENSE-2.0]
(http://www.apache.org/licenses/LICENSE-2.0)

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-------------------------------------------------------------------------------


github.com/gophercloud/gophercloud


Copyright 2012-2013 Rackspace, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License.  You may obtain a copy of
 the
License at

  http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.  See the License for the
specific language governing permissions and limitations under the License.


------

    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
```

```
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

-------------------------------------------------------------------------------


github.com/bazelbuild/buildtools 0.6.0-60-g1a9c38e
```

Copyright 2016 Google Inc. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---

github.com/d2g/dhcp4client
github.com/hashicorp/hcl
github.com/hashicorp/golang-lru

Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

```
1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.

1.8. “License”

     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.

1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.
```

```
2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).
```

```
2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
```

```
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
```

```
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party’s negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation
```

```
   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
```

```
      obtain one at
      http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

      This Source Code Form is "Incompatible
      With Secondary Licenses", as defined by
      the Mozilla Public License, v. 2.0.


--------------------------------------------------------------------------------


github.com/syndtr/gocapability


Copyright 2013 Suryandaru Triandana <syndtr@gmail.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/magiconair/properties v1.7.0-4-g61b492c


goproperties - properties file decoder for Go

Copyright (c) 2013-2014 - Frank Schroeder

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


gopkg.in/warnings.v0 v0.1.1


Copyright (c) 2016 Péter Surányi.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


golang.org/x/oauth2


Copyright (c) 2009 The oauth2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/heketi/heketi v4.0.0-95-gaaf4061


Heketi code is released under various licenses:

The REST API client code (in go and python) is released
under a dual license of Apache 2.0 or LGPLv3+.

The other parts of heketi (server, cli, tests, ...) are released
under a dual license of LGPLv3+ or GPLv2.

--------------------------------------------------------------------------------


github.com/cyphar/filepath-securejoin v0.2.1-1-gae69057


Copyright (C) 2014-2015 Docker Inc & Go Authors. All rights reserved.
Copyright (C) 2017 SUSE LLC. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/blang/semver v3.5.0


The MIT License

Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


--------------------------------------------------------------------------------


github.com/godbus/dbus v3


Copyright (c) 2013, Georg Reinke (<guelfey at gmail dot com>), Google
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/pkg/errors v0.8.0


Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/miekg/dns


Extensions of the original work are copyright (c) 2011 Miek Gieben

As this is fork of the official Go code the same license applies:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
```

```
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------


github.com/golang/protobuf v1.1.0


Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------


github.com/mvdan/xurls v0.8.0-14-g1b768d7


Copyright (c) 2015, Daniel Martí. All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/davecgh/go-spew v1.1.0-1-g782f496


ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

--------------------------------------------------------------------------------


github.com/google/cadvisor v0.30.2


   Copyright 2014 The cAdvisor Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

-------------------------------------------------------------------------------


gopkg.in/square/go-jose.v2/json v2.1.3
github.com/fsnotify/fsnotify v1.3.1-1-gf12c623
github.com/kardianos/osext
github.com/PuerkitoBio/urlesc
github.com/vmware/govmomi/vim25/xml v0.17.1-46-ge70dd44
github.com/kr/fs
golang
```

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

github.com/pmezard/go-difflib

Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
--------------------------------------------------------------------------------


github.com/evanphx/json-patch v3.0.0-23-g94e38aa


Copyright (c) 2014, Evan Phoenix
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the Evan Phoenix nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/emicklei/go-restful 2.2.0-4-gff4f55a


Copyright (c) 2012,2013 Ernest Micklei

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
--------------------------------------------------------------------------------


github.com/mxk/go-flowrate


Copyright (c) 2014 The Go-FlowRate Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the
   distribution.

 * Neither the name of the go-flowrate project nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/seccomp/libseccomp-golang


Copyright (c) 2015 Matthew Heon <mheon@redhat.com>
Copyright (c) 2015 Paul Moore <pmoore@redhat.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
- Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
```

```
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/onsi/gomega v1.0-122-gd59fa0a
github.com/onsi/ginkgo v1.2.0-95-g67b9df7


Copyright (c) 2013-2014 Onsi Fakhouri

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/mailru/easyjson


Copyright (c) 2016 Mail.Ru Group

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/imdario/mergo 0.1.3-8-g6633656
```

Copyright (c) 2013 Dario Castañé. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

github.com/jteeuwen/go-bindata v3.0.7-72-ga0ff256

This work is subject to the CC0 1.0 Universal (CC0 1.0) Public Domain Dedication
license. Its contents can be found at:
http://creativecommons.org/publicdomain/zero/1.0

---

golang.org/x/tools
golang.org/x/net
golang.org/x/crypto
golang.org/x/exp
golang.org/x/text
golang.org/x/sys
golang.org/x/time

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer

```
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


google.golang.org/api


Copyright (c) 2011 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/beorn7/perks


Copyright (C) 2013 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
```

```
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/pkg/sftp


Copyright (c) 2013, Dave Cheney
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/daviddengcn/go-colortext


BSD License
===========

Copyright (c) 2016, David Deng
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
```

```
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of go-colortext nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


MIT License
===========

Copyright (c) 2016 David Deng

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------


github.com/quobyte/api



Copyright (c) 2016, Quobyte Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of quobyte-automation nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/jmespath/go-jmespath 0.2.2-12-g0b12d6b


Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------


github.com/inconshreveable/mousetrap v1.0


Copyright 2014 Alan Shreve

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
```

```
limitations under the License.

--------------------------------------------------------------------------------


vbom.ml/util
gopkg.in/natefinch/lumberjack.v2 v1.0-16-g20b71e5
bitbucket.org/bertimus9/systemstat
github.com/MakeNowJust/heredoc
github.com/mattn/go-shellwords v1.0.3-20-gf8471b0
github.com/mitchellh/mapstructure
github.com/armon/circbuf
github.com/client9/misspell v0.3.0-7-g9ce5d97
github.com/renstrom/dedent v1.0.0-3-g020d11c
github.com/Microsoft/hcsshim v0.6.11
github.com/Microsoft/go-winio v0.4.5
github.com/ugorji/go
github.com/mohae/deepcopy
github.com/coreos/bbolt v1.3.1-coreos.6
github.com/xiang90/probing 0.0.1
github.com/onsi/ginkgo/reporters/stenographer/support/go-colorable
 v1.2.0-95-g67b9df7
github.com/exponent-io/jsonpath
github.com/spf13/jwalterweatherman
github.com/spf13/viper
github.com/spf13/cast
github.com/ghodss/yaml
github.com/rubiojr/go-vhd
github.com/pelletier/go-toml v1.0.1
github.com/sirupsen/logrus v1.0.3-11-g89742ae
github.com/influxdata/influxdb v1.1.1
github.com/Azure/go-ansiterm
github.com/asaskevich/govalidator v4-12-g593d645


The MIT License (MIT)
Copyright (c) 2015 Frits van Bommel
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------


github.com/gorilla/websocket


Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

  Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/elazarl/goproxy v1.0-104-gc4fc265


Copyright (c) 2012 Elazar Leibovich. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Elazar Leibovich. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
```

```
gopkg.in/gcfg.v1 v1.2.0
gopkg.in/inf.v0 v0.9.0


Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/gogo/protobuf v0.4-3-gc0656edd


Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------


github.com/stretchr/testify v1.2.1-14-gc679ae2


Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell

Please consider promoting this project if you find it useful.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/elazarl/go-bindata-assetfs


Copyright (c) 2014, Elazar Leibovich
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/emicklei/go-restful-swagger12 1.0.1


Copyright (c) 2017 Ernest Micklei

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------


github.com/JeffAshton/win_pdh


Copyright (c) 2010 The win_pdh Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHORS ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
```

```
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/onsi/ginkgo/reporters/stenographer/support/go-isatty v1.2.0-95-
g67b9df7


Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

MIT License (Expat)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


gonum/graph


Copyright ©2013 The gonum Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the gonum project nor the names of its authors and
      contributors may be used to endorse or promote products derived from
 this
      software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
```

```
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------


github.com/PuerkitoBio/purell v1.0.0


Copyright (c) 2012, Martin Angers
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the author nor the names of its contributors may be
 used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/peterbourgon/diskv v2.0.1


Copyright (c) 2011-2012 Peter Bourgon

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/chai2010/gettext-go


Copyright 2013 ChaiShushan <chaishushan{AT}gmail.com>. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


github.com/satori/go.uuid v1.1.0


Copyright (C) 2013-2016 by Maxim Bublis <b@codemonkey.ru>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
```

```
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/Nvveen/Gotty


Copyright (c) 2012, Neal van Veen (nealvanveen@gmail.com)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are
 those
of the authors and should not be interpreted as representing official
 policies,
either expressed or implied, of the FreeBSD Project.

--------------------------------------------------------------------------------


github.com/shurcooL/sanitized_anchor_name


Copyright (c) 2015 Dmitri Shuralyov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------


github.com/dgrijalva/jwt-go v3.0.0-4-g01aeca5


Copyright (c) 2012 Dave Grijalva

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------


github.com/pborman/uuid
github.com/google/uuid 0.2-15-g8c31c18


Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------


google.golang.org/api/googleapi/internal/uritemplates


Copyright (c) 2013 Joshua Tacoma

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


shell2junit


           Shell2Junit License Information

Feb, 2010

shell2junit library and sample code is licensed under Apache License, v.2.0.

(c) 2009 Manolo Carrasco (Manuel Carrasco Moñino)

=====

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
```

```
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty
 percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source,
 and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
or translation of a Source form, including but not limited to compiled
object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that
 is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as
 a
whole, an original work of authorship. For the purposes of this License,
Derivative Works shall not include works that remain separable from, or
merely link (or bind by name) to the interfaces of, the Work and Derivative
Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
purposes of this definition, "submitted" means any form of electronic,
verbal, or written communication sent to the Licensor or its
representatives, including but not limited to communication on electronic
mailing lists, source code control systems, and issue tracking systems that
are managed by, or on behalf of, the Licensor for the purpose of discussing
and improving the Work, but excluding communication that is conspicuously
marked or otherwise designated in writing by the copyright owner as "Not a
Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
behalf of whom a Contribution has been received by Licensor and
 subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide,
non-exclusive, no-charge, royalty-free, irrevocable copyright license to
reproduce, prepare Derivative Works of, publicly display, publicly perform,
sublicense, and distribute the Work and such Derivative Works in Source or
Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide,
non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
this section) patent license to make, have made, use, offer to sell, sell,
import, and otherwise transfer the Work, where such license applies only to
those patent claims licensable by such Contributor that are necessarily
infringed by their Contribution(s) alone or by combination of their
Contribution(s) with the Work to which such Contribution(s) was submitted.
If You institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or
 contributory
patent infringement, then any patent licenses granted to You under this
License for that Work shall terminate as of the date such litigation is
filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
Derivative Works thereof in any medium, with or without modifications, and
in Source or Object form, provided that You meet the following conditions:

a. You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

b. You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

c. You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
the Source form of the Work, excluding those notices that do not pertain to
any part of the Derivative Works; and

d. If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
of the attribution notices contained within such NOTICE file, excluding
those notices that do not pertain to any part of the Derivative Works, in
 at
least one of the following places: within a NOTICE text file distributed as
part of the Derivative Works; within the Source form or documentation, if
provided along with the Derivative Works; or, within a display generated by
the Derivative Works, if and wherever such third-party notices normally
appear. The contents of the NOTICE file are for informational purposes only
and do not modify the License. You may add Your own attribution notices
within Derivative Works that You distribute, alongside or as an addendum to
the NOTICE text from the Work, provided that such additional attribution
notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
provide additional or different license terms and conditions for use,
reproduction, or distribution of Your modifications, or for any such
Derivative Works as a whole, provided Your use, reproduction, and
distribution of the Work otherwise complies with the conditions stated in
this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any
Contribution intentionally submitted for inclusion in the Work by You to
 the
Licensor shall be under the terms and conditions of this License, without
any additional terms or conditions. Notwithstanding the above, nothing
herein shall supersede or modify the terms of any separate license
 agreement
you may have executed with Licensor regarding such Contributions.
```

```
6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor, except
as required for reasonable and customary use in describing the origin of
 the
Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in
writing, Licensor provides the Work (and each Contributor provides its
Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
KIND, either express or implied, including, without limitation, any
warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or
FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining
the appropriateness of using or redistributing the Work and assume any
 risks
associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether
in tort (including negligence), contract, or otherwise, unless required by
applicable law (such as deliberate and grossly negligent acts) or agreed to
in writing, shall any Contributor be liable to You for damages, including
any direct, indirect, special, incidental, or consequential damages of any
character arising as a result of this License or out of the use or
 inability
to use the Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all other
commercial damages or losses), even if such Contributor has been advised of
the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work
or Derivative Works thereof, You may choose to offer, and charge a fee for,
acceptance of support, warranty, indemnity, or other liability obligations
and/or rights consistent with this License. However, in accepting such
obligations, You may act only on Your own behalf and on Your sole
responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
liability incurred by, or claims asserted against, such Contributor by
reason of your accepting any such warranty or additional liability.


--------------------------------------------------------------------------------


github.com/robfig/cron v1-53-gdf38d32


Copyright (C) 2012 Rob Figueiredo
All Rights Reserved.

MIT LICENSE

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


--END--
```

Provider: Kubernetes / Component(s): Kubernetes 1.7.0

```
Copyright 2014 The Kubernetes Authors.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: LabStack / Component(s): Echo 4.6.1

```
github.com/labstack/echo/v4
-------- Copyrights
Copyright (c) 2021 LabStack

-------- License
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
```

```
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
golang.org/x/crypto
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright (c) 2021 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/net
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
```

```
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright (C) 2009 Apple Inc. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/sys
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
```

```
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/text
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/time
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
```

```
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependencies Summary
golang.org/x/crypto
golang.org/x/net
golang.org/x/sys
golang.org/x/text
golang.org/x/time

-------- License used by Dependencies
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/golang-jwt/jwt
-------- Copyrights
Copyright (c) 2012 Dave Grijalva
Copyright (c) 2021 golang-jwt maintainers

-------- Dependency
github.com/labstack/gommon
-------- Copyrights
Copyright (c) 2018 labstack
```

```
-------- Dependency
github.com/mattn/go-colorable
-------- Copyrights
Copyright (c) 2016 Yasuhiro Matsumoto

-------- Dependency
github.com/mattn/go-isatty
-------- Copyrights
Copyright (c) Yasuhiro MATSUMOTO

-------- Dependency
github.com/valyala/bytebufferpool
-------- Copyrights
Copyright (c) 2016 Aliaksandr Valialkin, VertaMedia

-------- Dependency
github.com/valyala/fasttemplate
-------- Copyrights
Copyright (c) 2015 Aliaksandr Valialkin

-------- Dependencies Summary
github.com/golang-jwt/jwt
github.com/labstack/gommon
github.com/mattn/go-colorable
github.com/mattn/go-isatty
github.com/valyala/bytebufferpool
github.com/valyala/fasttemplate

-------- License used by Dependencies
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: ecdb887291566f645ccfb2d96386113e
```

Provider: LabStack / Component(s): Gommon

```
=== Public License Template ===
github.com/labstack/gommon
-------- Copyrights
```

```
Copyright (c) 2018 labstack

-------- License
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



------------------------ Dependencies Grouped by License ------------
-------- Dependency
github.com/mattn/go-colorable
-------- Copyrights
Copyright (c) 2016 Yasuhiro Matsumoto

-------- Dependency
github.com/mattn/go-isatty
-------- Copyrights
  (no copyright notices found)

-------- Dependency
github.com/valyala/bytebufferpool
-------- Copyrights
Copyright (c) 2016 Aliaksandr Valialkin, VertaMedia

-------- Dependency
github.com/valyala/fasttemplate
-------- Copyrights
Copyright (c) 2015 Aliaksandr Valialkin

-------- Dependencies Summary
github.com/labstack/gommon
github.com/mattn/go-colorable
github.com/mattn/go-isatty
github.com/valyala/bytebufferpool
github.com/valyala/fasttemplate

-------- License used by Dependencies
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



----------------------- Dependencies Grouped by License ------------
-------- Dependency
golang.org/x/sys
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependencies Summary
golang.org/x/sys
```

```
-------- License used by Dependencies
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=== ATTRIBUTION-HELPER-GENERATED:
=== Attribution helper version: {Major:0 Minor:11 GitVersion:0.10.0-51-
g062e3964-dirty
GitCommit:062e3964c5761de4ac8015d8019bb8814d4a12fd GitTreeState:dirty
 BuildDate:2022-08-19T20:24:46Z
GoVersion:go1.18.3 Compiler:gc Platform:darwin/amd64}
=== License file based on go.mod with md5 sum:
 d3caecde3823d37d735c745760549154
```

Provider: LangChain, Inc. / Component(s): langchain 0.2.5

```
Top Level Component Name : langchain
Top Level Component Name : langchain
Top Level Component License : MIT License
Top Level Component Copyright :
MIT License

Copyright (c) LangChain, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==============================================================================

Fourth Party Dependency #1 Name : aiohttp
Fourth Party Dependency #1 License : Apache License 2.0
Fourth Party Dependency #1 Copyright :

Copyright aio-libs contributors.

Licensed under the Apache License, Version 2.0 (the ""License"");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an ""AS IS"" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


==============================================================================

Fourth Party Dependency #2 Name : aiosignal
Fourth Party Dependency #2 License : Apache License
Fourth Party Dependency #2 Copyright :
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      ""License"" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      ""Licensor"" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      ""Legal Entity"" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      ""control"" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      ""You"" (or ""Your"") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      ""Source"" form shall mean the preferred form for making
 modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      ""Object"" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      ""Work"" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      ""Derivative Works"" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      ""Contribution"" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition,
""submitted""
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as ""Not a
Contribution.""

      ""Contributor"" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a ""NOTICE"" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an ""AS IS"" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets ""{}""
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same ""printed page"" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2013-2019 Nikolay Kim and Andrew Svetlov

   Licensed under the Apache License, Version 2.0 (the ""License"");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an ""AS IS"" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


==============================================================================

Fourth Party Dependency #3 Name : frozenlist
Fourth Party Dependency #3 License : Apache License
Fourth Party Dependency #3 Copyright :
Apache License


   Copyright 2013-2019 Nikolay Kim and Andrew Svetlov

   Licensed under the Apache License, Version 2.0 (the ""License"");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an ""AS IS"" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


================================================================================

Fourth Party Dependency #4 Name : async-timeout
Fourth Party Dependency #4 License : Apache License
Fourth Party Dependency #4 Copyright :
Copyright 2016-2020 aio-libs collaboration.

Licensed under the Apache License, Version 2.0 (the ""License"");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an ""AS IS"" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


================================================================================

Fourth Party Dependency #5 Name : attrs
Fourth Party Dependency #5 License : The MIT License (MIT)
Fourth Party Dependency #5 Copyright :
The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the attrs contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #6 Name : multidict
```

```
Fourth Party Dependency #6 License : Apache License
Fourth Party Dependency #6 Copyright :
Copyright 2016 Andrew Svetlov and aio-libs contributors

Licensed under the Apache License, Version 2.0 (the ""License"");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an ""AS IS"" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


==============================================================================

Fourth Party Dependency #7 Name : yarl
Fourth Party Dependency #7 License : Apache License 2.0
Fourth Party Dependency #7 Copyright :

   Copyright 2016-2021, Andrew Svetlov and aio-libs team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.




==============================================================================

Fourth Party Dependency #8 Name : idna
Fourth Party Dependency #8 License : BSD License
Fourth Party Dependency #8 Copyright :
BSD 3-Clause License

Copyright (c) 2013-2024, Kim Davies and contributors. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 ""AS IS"" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


================================================================================

Fourth Party Dependency #9 Name : dataclasses-json
Fourth Party Dependency #9 License : MIT License
Fourth Party Dependency #9 Copyright :
MIT License

Copyright (c) 2019 Charles Li and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #10 Name : marshmallow
Fourth Party Dependency #10 License : MIT License
Fourth Party Dependency #10 Copyright :
Copyright Steven Loria and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


================================================================================

Fourth Party Dependency #11 Name : packaging
Fourth Party Dependency #11 License : Apache License 2.0, BSD
Fourth Party Dependency #11 Copyright :

This file is dual licensed under the terms of the Apache License, Version
2.0, and the BSD License. See the LICENSE file in the root of this
 repository
for complete details.

         Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



================================================================================

Fourth Party Dependency #12 Name : typing-inspect
Fourth Party Dependency #12 License : MIT License (MIT)
Fourth Party Dependency #12 Copyright :
The MIT License (MIT)

Copyright (c) 2017-2019 Ivan Levkivskyi

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the ""Software""), to deal
 in
```

```
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


================================================================================

Fourth Party Dependency #13 Name : mypy-extensions
Fourth Party Dependency #13 License : MIT license
Fourth Party Dependency #13 Copyright :
Mypy extensions are licensed under the terms of the MIT license, reproduced
 below.

The MIT License

Copyright (c) 2016-2017 Jukka Lehtosalo and contributors

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the ""Software""),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


================================================================================

Fourth Party Dependency #14 Name : typing-extensions
Fourth Party Dependency #14 License : Python Software Foundation License
Fourth Party Dependency #14 Copyright :
PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
(""PSF""), and the Individual or Organization (""Licensee"") accessing and
otherwise using this software (""Python"") in source or binary form and
```

```
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., ""Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved"" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an ""AS IS""
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com (""BeOpen""), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization (""Licensee"") accessing and otherwise using
this software in source or binary form and its associated
documentation (""the Software"").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
```

```
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an ""AS IS""
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the ""BeOpen Python"" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 (""CNRI""), and the Individual or Organization
(""Licensee"") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., ""Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved"" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): ""Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013"".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
```

```
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an ""AS IS""
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the ""ACCEPT"" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```

```
ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
----------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED ""AS IS"" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.


==============================================================================

Fourth Party Dependency #15 Name : numpy
Fourth Party Dependency #15 License : BSD License
Fourth Party Dependency #15 Copyright :

--------------------
Copyright (c) 2005-2024, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

----

This binary distribution of NumPy also bundles the following software:

Name: OpenBLAS
Files: numpy/.dylibs/libopenblas*.so
```

```
Description: bundled as a dynamically linked library
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: numpy/.dylibs/libopenblas*.so
Description: bundled in OpenBLAS
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause-Attribution
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
```

```
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: GCC runtime library
Files: numpy/.dylibs/libgfortran*, numpy/.dylibs/libgcc*
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran
License: GPL-3.0-with-GCC-exception
  Copyright (C) 2002-2017 Free Software Foundation, Inc.

  Libgfortran is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 3, or (at your option)
  any later version.

  Libgfortran is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  Under Section 7 of GPL version 3, you are granted additional
  permissions described in the GCC Runtime Library Exception, version
  3.1, as published by the Free Software Foundation.

  You should have received a copy of the GNU General Public License and
  a copy of the GCC Runtime Library Exception along with this program;
  see the files COPYING3 and COPYING.RUNTIME respectively.  If not, see
  <http://www.gnu.org/licenses/>.

----

Full text of license texts referred to above follows (that they are
listed below does not necessarily imply the conditions apply to the
present binary release):

----

GCC RUNTIME LIBRARY EXCEPTION
```

```
Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.
```

```
2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.

----

                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
```

```
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
```

```
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
```

```
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
```

```
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
```

```
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or
```

```
    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
```

```
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
```

```
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
```

```
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
```

```
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

Name: libquadmath
Files: numpy/.dylibs/libquadmath*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
License: LGPL-2.1-or-later

    GCC Quad-Precision Math Library
    Copyright (C) 2010-2019 Free Software Foundation, Inc.
    Written by Francois-Xavier Coudert  <fxcoudert@gcc.gnu.org>

    This file is part of the libquadmath library.
    Libquadmath is free software; you can redistribute it and/or
    modify it under the terms of the GNU Library General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    Libquadmath is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
```

```
    Lesser General Public License for more details.
    https://www.gnu.org/licenses/old-licenses/lgpl-2.1.html

--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt


Note that the following files are vendored in the repository and sdist but
 not
installed in built numpy packages:

Name: Meson
Files: vendored-meson/meson/*
License: Apache 2.0
  For license text, see vendored-meson/meson/COPYING

Name: spin
Files: .spin/cmds.py
License: BSD-3
  For license text, see .spin/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------------
tempita

License
-------

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------
```

```
dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

--------------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

--------------------------------------------------------------------------------
Meson

Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
```

```
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
.spin

BSD 3-Clause License

Copyright (c) 2021--2022, Scientific Python project
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

--------------------------------------------------------------------------------
LICENSES_bundled in different directories:
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
```

```
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: numpy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.
```

```
The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.
```

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
```

```
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

--------------------------------------------------------------------------------

Name: numpy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


================================================================================

Fourth Party Dependency #16 Name : PyYAML
Fourth Party Dependency #16 License : MIT license
Fourth Party Dependency #16 Copyright :
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the ""Software""), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #17 Name : requests
```

```
Fourth Party Dependency #17 License : Apache Software License 2.0
Fourth Party Dependency #17 Copyright :
Requests
Copyright 2019 Kenneth Reitz



==============================================================================

Fourth Party Dependency #18 Name : certifi
Fourth Party Dependency #18 License : Mozilla Public License 2.0
Fourth Party Dependency #18 Copyright :
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.
```

```
1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
```

```
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party's
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
```

```
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
```

```
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
```

```
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by the Mozilla Public License, v. 2.0.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $


==============================================================================

Fourth Party Dependency #19 Name : charset_normalizer
Fourth Party Dependency #19 License : The MIT License (MIT)
Fourth Party Dependency #19 Copyright :
MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==============================================================================

Fourth Party Dependency #20 Name : urllib3
Fourth Party Dependency #20 License : The MIT License (MIT)
```

```
Fourth Party Dependency #20 Copyright :
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==============================================================================

Fourth Party Dependency #21 Name : SQLAlchemy
Fourth Party Dependency #21 License : MIT license
Fourth Party Dependency #21 Copyright :
Copyright 2005-2024 SQLAlchemy authors and contributors <see AUTHORS file>.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the ""Software""), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==============================================================================

Fourth Party Dependency #22 Name : greenlet
```

```
Fourth Party Dependency #22 License : MIT license
Fourth Party Dependency #22 Copyright :
Copyright (c) Armin Rigo, Christian Tismer and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


================================================================================

Fourth Party Dependency #23 Name : tenacity
Fourth Party Dependency #23 License : Apache License 2.0
Fourth Party Dependency #23 Copyright :
 Copyright 2016-2018 Julien Danjou
 Copyright 2017 Elisey Zanko
 Copyright 2016 Étienne Bersac
 Copyright 2016 Joshua Harlow
 Copyright 2013-2014 Ray Holder

 Licensed under the Apache License, Version 2.0 (the "License");
 you may not use this file except in compliance with the License.
 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.


================================================================================

Fourth Party Dependency #24 Name : langsmith
Fourth Party Dependency #24 License : The MIT License (MIT)
Fourth Party Dependency #24 Copyright :
MIT License

Copyright (c) 2023 LangChain

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #25 Name : langchain-core
Fourth Party Dependency #25 License : The MIT License (MIT)
Fourth Party Dependency #25 Copyright :
MIT License

Copyright (c) LangChain, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #26 Name : pydantic
Fourth Party Dependency #26 License : The MIT License (MIT)
Fourth Party Dependency #26 Copyright :
The MIT License (MIT)

Copyright (c) 2017 to present Pydantic Services Inc. and individual
 contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #27 Name : langchain
Fourth Party Dependency #27 License : The MIT License (MIT)
Fourth Party Dependency #27 Copyright :
MIT License

Copyright (c) LangChain, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #28 Name : orjson
Fourth Party Dependency #28 License : Apache 2.0, The MIT License (MIT)
Fourth Party Dependency #28 Copyright :

orjson was written by ijl <<ijl@mailbox.org>>, copyright 2018 - 2024,
 available
to you under either the Apache 2 license or MIT license at your choice.

Apache-2.0
Copyright 2023-2024 liuq19, ij

Copyright (c) 2020 YaoYuan <ibireme@gmail.com>
```

```
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the ""Software""), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


==============================================================================

Fourth Party Dependency #29 Name : jsonpatch
Fourth Party Dependency #29 License : BSD License
Fourth Party Dependency #29 Copyright :
Copyright (c) 2011 Stefan Kögl <stefan@skoegl.net>

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 ""AS IS"" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


==============================================================================

Fourth Party Dependency #30 Name : jsonpointer
Fourth Party Dependency #30 License : BSD License
```

```
Fourth Party Dependency #30 Copyright :
Copyright (c) 2011 Stefan Kögl <stefan@skoegl.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

================================================================================

Fourth Party Dependency #31 Name : annotated-types
Fourth Party Dependency #31 License : The MIT License (MIT)
Fourth Party Dependency #31 Copyright :
The MIT License (MIT)

Copyright (c) 2022 the contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #32 Name : pydantic-core
Fourth Party Dependency #32 License : The MIT License (MIT)
Fourth Party Dependency #32 Copyright :
```

```
The MIT License (MIT)

Copyright (c) 2022 Samuel Colvin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==============================================================================

Fourth Party Dependency #33 Name : langchain-text-splitters
Fourth Party Dependency #33 License : The MIT License (MIT)
Fourth Party Dependency #33 Copyright :
MIT License

Copyright (c) LangChain, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==============================================================================

Fourth Party Dependency #34 Name : langchain-community
Fourth Party Dependency #34 License : MIT License
Fourth Party Dependency #34 Copyright :
```

```
MIT License

Copyright (c) LangChain, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: LangChain, Inc. / Component(s): langchain-community 0.2.5

```
Top Level Component Name : langchain-community
Top Level Component License : MIT License
Top Level Component Copyright :
MIT License

Copyright (c) LangChain, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #1 Name : aiohttp
Fourth Party Dependency #1 License : Apache License 2.0
```

```
Fourth Party Dependency #1 Copyright :

Copyright aio-libs contributors.

Licensed under the Apache License, Version 2.0 (the ""License"");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an ""AS IS"" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


==============================================================================

Fourth Party Dependency #2 Name : aiosignal
Fourth Party Dependency #2 License : Apache License 2.0
Fourth Party Dependency #2 Copyright :


   Copyright 2013-2019 Nikolay Kim and Andrew Svetlov

   Licensed under the Apache License, Version 2.0 (the ""License"");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an ""AS IS"" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


==============================================================================

Fourth Party Dependency #3 Name : frozenlist
Fourth Party Dependency #3 License : Apache License 2.0
Fourth Party Dependency #3 Copyright :

   Copyright 2013-2019 Nikolay Kim and Andrew Svetlov

   Licensed under the Apache License, Version 2.0 (the ""License"");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an ""AS IS"" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


==============================================================================

Fourth Party Dependency #4 Name : async-timeout
Fourth Party Dependency #4 License : Apache License 2.0
```

```
Fourth Party Dependency #4 Copyright :
Copyright 2016-2020 aio-libs collaboration.


Copyright 2016-2020 aio-libs collaboration.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


==============================================================================

Fourth Party Dependency #5 Name : attrs
Fourth Party Dependency #5 License : The MIT License (MIT)
Fourth Party Dependency #5 Copyright :
The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the attrs contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==============================================================================

Fourth Party Dependency #6 Name : multidict
Fourth Party Dependency #6 License : Apache License 2.0
Fourth Party Dependency #6 Copyright :
Copyright 2016 Andrew Svetlov and aio-libs contributors

Licensed under the Apache License, Version 2.0 (the ""License"");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an ""AS IS"" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


==============================================================================

Fourth Party Dependency #7 Name : yarl
Fourth Party Dependency #7 License : Apache License 2.0
Fourth Party Dependency #7 Copyright :
   Copyright 2016-2021, Andrew Svetlov and aio-libs team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


==============================================================================

Fourth Party Dependency #8 Name : idna
Fourth Party Dependency #8 License : BSD License
Fourth Party Dependency #8 Copyright :
BSD 3-Clause License

Copyright (c) 2013-2024, Kim Davies and contributors. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 ""AS IS"" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


==============================================================================
```

```
Fourth Party Dependency #9 Name : dataclasses-json
Fourth Party Dependency #9 License : MIT License
Fourth Party Dependency #9 Copyright :
MIT License

Copyright (c) 2019 Charles Li and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==============================================================================

Fourth Party Dependency #10 Name : marshmallow
Fourth Party Dependency #10 License : MIT License
Fourth Party Dependency #10 Copyright :
Copyright Steven Loria and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


==============================================================================

Fourth Party Dependency #11 Name : packaging
Fourth Party Dependency #11 License : Apache License 2.0, BSD
Fourth Party Dependency #11 Copyright :
```

```
          This software is made available under the terms of *either* of the
 licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

    END OF TERMS AND CONDITIONS

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==============================================================================

Fourth Party Dependency #12 Name : typing-inspect
Fourth Party Dependency #12 License : MIT License (MIT)
Fourth Party Dependency #12 Copyright :
The MIT License (MIT)

Copyright (c) 2017-2019 Ivan Levkivskyi

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the ""Software""), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


==============================================================================

Fourth Party Dependency #13 Name : mypy-extensions
Fourth Party Dependency #13 License : MIT license
Fourth Party Dependency #13 Copyright :
```

```
Mypy extensions are licensed under the terms of the MIT license, reproduced
 below.

The MIT License

Copyright (c) 2016-2017 Jukka Lehtosalo and contributors

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the ""Software""),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


================================================================================

Fourth Party Dependency #14 Name : typing-extensions
Fourth Party Dependency #14 License : Python Software Foundation License
Fourth Party Dependency #14 Copyright :
PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
(""PSF""), and the Individual or Organization (""Licensee"") accessing and
otherwise using this software (""Python"") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., ""Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved"" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an ""AS IS""
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
```

```
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com (""BeOpen""), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization (""Licensee"") accessing and otherwise using
this software in source or binary form and its associated
documentation (""the Software"").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an ""AS IS""
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the ""BeOpen Python"" logos available at
```

```
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 (""CNRI""), and the Individual or Organization
(""Licensee"") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., ""Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved"" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): ""Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013"".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an ""AS IS""
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
```

```
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the ""ACCEPT"" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
------------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED ""AS IS"" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.


==============================================================================

Fourth Party Dependency #15 Name : numpy
Fourth Party Dependency #15 License : BSD License
Fourth Party Dependency #15 Copyright :
Copyright (c) 2005-2023, NumPy Developers.

--------------------
Copyright (c) 2005-2024, NumPy Developers.
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

----

This binary distribution of NumPy also bundles the following software:

Name: OpenBLAS
Files: numpy/.dylibs/libopenblas*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: numpy/.dylibs/libopenblas*.so
Description: bundled in OpenBLAS
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause-Attribution
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
Name: GCC runtime library
Files: numpy/.dylibs/libgfortran*, numpy/.dylibs/libgcc*
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran
License: GPL-3.0-with-GCC-exception
  Copyright (C) 2002-2017 Free Software Foundation, Inc.

  Libgfortran is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 3, or (at your option)
  any later version.

  Libgfortran is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  Under Section 7 of GPL version 3, you are granted additional
  permissions described in the GCC Runtime Library Exception, version
  3.1, as published by the Free Software Foundation.

  You should have received a copy of the GNU General Public License and
  a copy of the GCC Runtime Library Exception along with this program;
  see the files COPYING3 and COPYING.RUNTIME respectively.  If not, see
  <http://www.gnu.org/licenses/>.

----

Full text of license texts referred to above follows (that they are
listed below does not necessarily imply the conditions apply to the
present binary release):

----

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.
```

```
"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.

----

                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
```

```
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
```

```
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.
```

```
  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.
```

```
  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.
```

```
    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
```

```
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.
```

```
  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
```

```
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
```

```
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
```

```
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
```

```
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

Name: libquadmath
Files: numpy/.dylibs/libquadmath*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
License: LGPL-2.1-or-later

    GCC Quad-Precision Math Library
    Copyright (C) 2010-2019 Free Software Foundation, Inc.
    Written by Francois-Xavier Coudert  <fxcoudert@gcc.gnu.org>

    This file is part of the libquadmath library.
    Libquadmath is free software; you can redistribute it and/or
    modify it under the terms of the GNU Library General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    Libquadmath is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.
    https://www.gnu.org/licenses/old-licenses/lgpl-2.1.html

--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
```

```
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt


Note that the following files are vendored in the repository and sdist but
 not
installed in built numpy packages:

Name: Meson
Files: vendored-meson/meson/*
License: Apache 2.0
  For license text, see vendored-meson/meson/COPYING

Name: spin
Files: .spin/cmds.py
License: BSD-3
  For license text, see .spin/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------
tempita

License
-------

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------

dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

-------------------------------------------------------------------------------
libdivide
```

```
zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

--------------------------------------------------------------------------------
Meson

Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
.spin

BSD 3-Clause License

Copyright (c) 2021--2022, Scientific Python project
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

--------------------------------------------------------------------------------
LICENSES_bundled in different directories:
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
```

```
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: numpy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)
```

```
The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.
```

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk, kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal with the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimers in the documentation and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may be used to endorse or promote products derived from this Software without specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

-------------------------------------------------------------------------------------------

Name: numpy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
================================================================================

Fourth Party Dependency #16 Name : PyYAML
Fourth Party Dependency #16 License : MIT license
Fourth Party Dependency #16 Copyright :
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the ""Software""), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #17 Name : requests
Fourth Party Dependency #17 License : Apache Software License 2.0
Fourth Party Dependency #17 Copyright :
 Requests
 Copyright 2019 Kenneth Reitz


================================================================================

Fourth Party Dependency #18 Name : certifi
Fourth Party Dependency #18 License : Mozilla Public License 2.0
Fourth Party Dependency #18 Copyright :
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
```

```
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
```

```
1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
```

```
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
```

```
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
```

```
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $
```

```
================================================================================

Fourth Party Dependency #19 Name : charset_normalizer
Fourth Party Dependency #19 License : The MIT License (MIT)
Fourth Party Dependency #19 Copyright :
MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #20 Name : urllib3
Fourth Party Dependency #20 License : The MIT License (MIT)
Fourth Party Dependency #20 Copyright :
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
================================================================================

Fourth Party Dependency #21 Name : SQLAlchemy
Fourth Party Dependency #21 License : MIT license
Fourth Party Dependency #21 Copyright :
Copyright 2005-2024 SQLAlchemy authors and contributors <see AUTHORS file>.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the ""Software""), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #22 Name : greenlet
Fourth Party Dependency #22 License : MIT license
Fourth Party Dependency #22 Copyright :
Copyright (c) Armin Rigo, Christian Tismer and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


================================================================================
```

```
Fourth Party Dependency #23 Name : tenacity
Fourth Party Dependency #23 License : Apache License 2.0
Fourth Party Dependency #23 Copyright :
 Copyright 2016-2018 Julien Danjou
 Copyright 2017 Elisey Zanko
 Copyright 2016 Étienne Bersac
 Copyright 2016 Joshua Harlow
 Copyright 2013-2014 Ray Holder

 Licensed under the Apache License, Version 2.0 (the "License");
 you may not use this file except in compliance with the License.
 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.


==============================================================================

Fourth Party Dependency #24 Name : langsmith
Fourth Party Dependency #24 License : The MIT License (MIT)
Fourth Party Dependency #24 Copyright :
MIT License

Copyright (c) 2023 LangChain

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==============================================================================

Fourth Party Dependency #25 Name : langchain-core
Fourth Party Dependency #25 License : The MIT License (MIT)
Fourth Party Dependency #25 Copyright :
MIT License

Copyright (c) LangChain, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #26 Name : pydantic
Fourth Party Dependency #26 License : The MIT License (MIT)
Fourth Party Dependency #26 Copyright :
The MIT License (MIT)

Copyright (c) 2017 to present Pydantic Services Inc. and individual
 contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #27 Name : langchain
Fourth Party Dependency #27 License : The MIT License (MIT)
Fourth Party Dependency #27 Copyright :
MIT License

Copyright (c) LangChain, Inc.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #28 Name : orjson
Fourth Party Dependency #28 License : Apache 2.0, The MIT License (MIT)
Fourth Party Dependency #28 Copyright :

orjson was written by ijl <<ijl@mailbox.org>>, copyright 2018 - 2024,
 available
to you under either the Apache 2 license or MIT license at your choice.

Apache-2.0
Copyright 2023-2024 liuq19, ij

Copyright (c) 2020 YaoYuan <ibireme@gmail.com>

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the ""Software""), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


================================================================================
```

```
Fourth Party Dependency #29 Name : jsonpatch
Fourth Party Dependency #29 License : BSD License
Fourth Party Dependency #29 Copyright :
Copyright (c) 2011 Stefan Kögl <stefan@skoegl.net>

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 ""AS IS"" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


==============================================================================

Fourth Party Dependency #30 Name : jsonpointer
Fourth Party Dependency #30 License : BSD License
Fourth Party Dependency #30 Copyright :
Copyright (c) 2011 Stefan Kögl <stefan@skoegl.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
================================================================================

Fourth Party Dependency #31 Name : annotated-types
Fourth Party Dependency #31 License : The MIT License (MIT)
Fourth Party Dependency #31 Copyright :
The MIT License (MIT)

Copyright (c) 2022 the contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================

Fourth Party Dependency #32 Name : pydantic-core
Fourth Party Dependency #32 License : The MIT License (MIT)
Fourth Party Dependency #32 Copyright :
The MIT License (MIT)

Copyright (c) 2022 Samuel Colvin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
================================================================================

Fourth Party Dependency #33 Name : langchain-text-splitters
Fourth Party Dependency #33 License : The MIT License (MIT)
Fourth Party Dependency #33 Copyright :
MIT License

Copyright (c) LangChain, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the ""Software""), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ""AS IS"", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


================================================================================
```

Provider: Lasse Collin / Component(s): xz (liblzma) 5.2.5

```
XY (liblzma)

https://git.tukaani.org/?p=xz.git;a=blob;f=COPYING

XZ Utils Licensing
==================

    Different licenses apply to different files in this package. Here
    is a rough summary of which licenses apply to which parts of this
    package (but check the individual files to be sure!):

      - liblzma is in the public domain.

      - xz, xzdec, and lzmadec command line tools are in the public
        domain unless GNU getopt_long had to be compiled and linked
        in from the lib directory. The getopt_long code is under
        GNU LGPLv2.1+.

      - The scripts to grep, diff, and view compressed files have been
        adapted from gzip. These scripts and their documentation are
        under GNU GPLv2+.

      - All the documentation in the doc directory and most of the
        XZ Utils specific documentation files in other directories
        are in the public domain.

```

```
  24       - Translated messages are in the public domain.
  25
  26       - The build system contains public domain files, and files that
  27         are under GNU GPLv2+ or GNU GPLv3+. None of these files end up
  28         in the binaries being built.
  29
  30       - Test files and test code in the tests directory, and debugging
  31         utilities in the debug directory are in the public domain.
  32
  33       - The extra directory may contain public domain files, and files
  34         that are under various free software licenses.
  35
  36     You can do whatever you want with the files that have been put into
  37     the public domain. If you find public domain legally problematic,
  38     take the previous sentence as a license grant. If you still find
  39     the lack of copyright legally problematic, you have too many
  40     lawyers.
  41
  42     As usual, this software is provided "as is", without any warranty.
  43
  44     If you copy significant amounts of public domain code from XZ Utils
  45     into your project, acknowledging this somewhere in your software is
  46     polite (especially if it is proprietary, non-free software), but
  47     naturally it is not legally required. Here is an example of a good
  48     notice to put into "about box" or into documentation:
  49
  50         This software includes code from XZ Utils <https://tukaani.org/
xz/>.
  51
  52     The following license texts are included in the following files:
  53       - COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1
  54       - COPYING.GPLv2: GNU General Public License version 2
  55       - COPYING.GPLv3: GNU General Public License version 3
  56
  57     Note that the toolchain (compiler, linker etc.) may add some code
  58     pieces that are copyrighted. Thus, it is possible that e.g. liblzma
  59     binary wouldn't actually be in the public domain in its entirety
  60     even though it contains no copyrighted code from the XZ Utils
 source
  61     package.
  62
  63     If you have questions, don't hesitate to ask the author(s) for more
  64     information.
  65

 === AUTHORS file ===
Authors of XZ Utils
===================
    XZ Utils is developed and maintained by Lasse Collin
    <lasse.collin@tukaani.org>.
    Major parts of liblzma are based on code written by Igor Pavlov,
    specifically the LZMA SDK <http://7-zip.org/sdk.html>. Without
    this code, XZ Utils wouldn't exist.
    The SHA-256 implementation in liblzma is based on the code found from
    7-Zip <http://7-zip.org/>, which has a modified version of the SHA-256
    code found from Crypto++ <http://www.cryptopp.com/>. The SHA-256 code
    in Crypto++ was written by Kevin Springle and Wei Dai.
    Some scripts have been adapted from gzip. The original versions
    were written by Jean-loup Gailly, Charles Levert, and Paul Eggert.
    Andrew Dudman helped adapting the scripts and their man pages for
    XZ Utils.
    The GNU Autotools-based build system contains files from many authors,
    which I'm not trying to list here.
    Several people have contributed fixes or reported bugs. Most of them
```

```
    are mentioned in the file THANKS.

=====================================================
Many source files in root have this
##############################################################################
#
# Author: Lasse Collin
#
# This file has been put into the public domain.
# You can do whatever you want with this file.
#
##############################################################################

=== Files in liblzma have ====
/**
   2  * \file        api/lzma.h
   3  * \brief       The public API of liblzma data compression library
   4  *
   5  * liblzma is a public domain general-purpose data compression library
 with
   6  * a zlib-like API. The native file format is .xz, but also the
 old .lzma
   7  * format and raw (no headers) streams are supported. Multiple
 compression
   8  * algorithms (filters) are supported. Currently LZMA2 is the primary
 filter.
   9  *
  10  * liblzma is part of XZ Utils <http://tukaani.org/xz/>. XZ Utils
 includes
  11  * a gzip-like command line tool named xz and some other tools. XZ
 Utils
  12  * is developed and maintained by Lasse Collin.
  13  *
  14  * Major parts of liblzma are based on Igor Pavlov's public domain LZMA
 SDK
  15  * <http://7-zip.org/sdk.html>.
  16  *
  17  * The SHA-256 implementation is based on the public domain code found
 from
  18  * 7-Zip <http://7-zip.org/>, which has a modified version of the
 public
  19  * domain SHA-256 code found from Crypto++ <http://www.cryptopp.com/>.
  20  * The SHA-256 code in Crypto++ was written by Kevin Springle and Wei
 Dai.
  21  */
  22
  23 /*
  24  * Author: Lasse Collin
  25  *
  26  * This file has been put into the public domain.
  27  * You can do whatever you want with this file.
  28  */
  29
  =======

  //  Authors:    Igor Pavlov
   7 //              Lasse Collin
   8 //
   9 //  This file has been put into the public domain.
  10 //  You can do whatever you want with this file.

  === lzmainfo, xz, xzdec sources ===

 1 ////////////////////////////////////////////////////////////////////////////
```

```
   2 //
   3 /// \file       lzmainfo.c
   4 /// \brief      lzmainfo tool for compatibility with LZMA Utils
   5 //
   6 //  Author:     Lasse Collin
   7 //
   8 //  This file has been put into the public domain.
   9 //  You can do whatever you want with this file.
  10 //

 11 ///////////////////////////////////////////////////////////////////////////
  12

==== common sources =====
     //  Authors:    Lasse Collin
  38 //              Joachim Henke
  39 //
  40 //  This file has been put into the public domain.
  41 //  You can do whatever you want with this file.
  42 //

 43 ///////////////////////////////////////////////////////////////////////////
==== scripts sources ====
   2 .\" Authors: Andrew Dudman
   3 .\"          Lasse Collin
   4 .\"
   5 .\" This file has been put into the public domain.
   6 .\" You can do whatever you want with this file.
   7 .\"
   8 .\" (Note that this file is not based on gzip's zless.1.)
   =

Oracle GraalPython uses only the “public domain” source files that belong to
 liblzma.
```

Provider: Last Bamboo LLC / Component(s): LittleProxy 1.1.2

```
littleproxy

COPYRIGHT and LICENSE:

The LittleProxy Project - Copyright 2009 Last Bamboo LLC, and is licensed
 under the
Apache License version 2.0 as published by the Apache Software Foundation.

A summary of the individual contributors is given below. Any omission should
 be
sent to Adam Fisk <a@littleshoot.org>.

SVN Login(s)            Name
-------------------------------------------------------------------------------
afisk                   Adam Fisk
-------------------------------------------------------------------------------


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
```

```
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
```

```
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

******************************
4P Dependencies:
******************************

com.barchart.udt » barchart-udt-bundle
COPYRIGHT: Copyright (C) 2011-2012 Barchart, Inc. <http://www.barchart.com
LICENSE: Licensed under the OSI BSD License. http://www.opensource.org/
licenses/bsd-license.php

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

---
com.google.guava » guava
```

```
COPYRIGHT: Copyright (C) 2008 The Guava Authors
LICENSE: Apache 2.0 https://github.com/google/guava/blob/v24.1.1/COPYING
---
org.apache.commons » commons-lang
COPYRIGHT: Copyright 2001-2016 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/commons-lang/blob/LANG_3_5/
LICENSE.txt

---
org.slf4j » slf4j-api
COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
---

io.netty » netty
COPYRIGHT and LICENSE:
Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

NOTICE FILE:
-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

CC0 1.0 Universal
Official translations of this legal tool are available in other languages.
```

```
    CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
 LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-
CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-
IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS
 DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS
 LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE
 INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
 exclusive Copyright and Related Rights (defined below) upon the creator
 and subsequent owner(s) (each and all, an "owner") of an original work of
 authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the
 purpose of contributing to a commons of creative, cultural and scientific
 works ("Commons") that the public can reliably and without fear of later
 claims of infringement build upon, modify, incorporate in other works,
 reuse and redistribute as freely as possible in any form whatsoever and
 for any purposes, including without limitation commercial purposes. These
 owners may contribute to the Commons to promote the ideal of a free culture
 and the further production of creative, cultural and scientific works, or
 to gain reputation or greater distribution for their Work in part through
 the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of additional consideration or compensation, the person associating CC0
 with a Work (the "Affirmer"), to the extent that he or she is an owner
 of Copyright and Related Rights in the Work, voluntarily elects to apply
 CC0 to the Work and publicly distribute the Work under its terms, with
 knowledge of his or her Copyright and Related Rights in the Work and the
 meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
 protected by copyright and related or neighboring rights ("Copyright and
 Related Rights"). Copyright and Related Rights include, but are not limited
 to, the following:
    the right to reproduce, adapt, distribute, perform, display,
 communicate, and translate a Work;
    moral rights retained by the original author(s) and/or performer(s);
    publicity and privacy rights pertaining to a person's image or likeness
 depicted in a Work;
    rights protecting against unfair competition in regards to a Work,
 subject to the limitations in paragraph 4(a), below;
    rights protecting the extraction, dissemination, use and reuse of data
 in a Work;
    database rights (such as those arising under Directive 96/9/EC of
 the European Parliament and of the Council of 11 March 1996 on the legal
 protection of databases, and under any national implementation thereof,
 including any amended or successor version of such directive); and
    other similar, equivalent or corresponding rights throughout the
 world based on applicable law or treaty, and any national implementations
 thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of,
 applicable law, Affirmer hereby overtly, fully, permanently, irrevocably
 and unconditionally waives, abandons, and surrenders all of Affirmer's
 Copyright and Related Rights and associated claims and causes of action,
 whether now known or unknown (including existing as well as future claims
 and causes of action), in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
```

```
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "Waiver").
 Affirmer makes the Waiver for the benefit of each member of the public
 at large and to the detriment of Affirmer's heirs and successors, fully
 intending that such Waiver shall not be subject to revocation, rescission,
 cancellation, termination, or any other legal or equitable action to
 disrupt the quiet enjoyment of the Work by the public as contemplated by
 Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
 be judged legally invalid or ineffective under applicable law, then the
 Waiver shall be preserved to the maximum extent permitted taking into
 account Affirmer's express Statement of Purpose. In addition, to the
 extent the Waiver is so judged Affirmer hereby grants to each affected
 person a royalty-free, non transferable, non sublicensable, non exclusive,
 irrevocable and unconditional license to exercise Affirmer's Copyright
 and Related Rights in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "License").
 The License shall be deemed effective as of the date CC0 was applied by
 Affirmer to the Work. Should any part of the License for any reason be
 judged legally invalid or ineffective under applicable law, such partial
 invalidity or ineffectiveness shall not invalidate the remainder of the
 License, and in such case Affirmer hereby affirms that he or she will
 not (i) exercise any of his or her remaining Copyright and Related Rights
 in the Work or (ii) assert any associated claims and causes of action
 with respect to the Work, in either case contrary to Affirmer's express
 Statement of Purpose.

4. Limitations and Disclaimers.

    No trademark or patent rights held by Affirmer are waived, abandoned,
 surrendered, licensed or otherwise affected by this document.
    Affirmer offers the Work as-is and makes no representations or
 warranties of any kind concerning the Work, express, implied, statutory
 or otherwise, including without limitation warranties of title,
 merchantability, fitness for a particular purpose, non infringement, or the
 absence of latent or other defects, accuracy, or the present or absence of
 errors, whether or not discoverable, all to the greatest extent permissible
 under applicable law.
    Affirmer disclaims responsibility for clearing rights of other persons
 that may apply to the Work or any use thereof, including without limitation
 any person's Copyright and Related Rights in the Work. Further, Affirmer
 disclaims responsibility for obtaining any necessary consents, permissions
 or other rights required for any use of the Work.
    Affirmer understands and acknowledges that Creative Commons is not a
 party to this document and has no duty or obligation with respect to this
 CC0 or use of the Work.


---
This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
```

```
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuate of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.

---
This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

(BSD License: http://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.

* Neither the name of the Webbit nor the names of
  its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
```

```
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
  * HOMEPAGE:
    * http://www.slf4j.org/

---
This product contains a modified portion of 'ArrayDeque', written by Josh
Bloch of Google, Inc:

  * LICENSE:
    * license/LICENSE.deque.txt (Public Domain)

 * Written by Josh Bloch of Google Inc. and released to the public domain,
 * as explained at http://creativecommons.org/publicdomain/zero/1.0/.

The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuate of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
```

```
---
This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://archive.apache.org/dist/harmony/

NOTICE:
Apache Harmony
Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of Apache Harmony were originally developed by
Intel Corporation and are licensed to the Apache Software
Foundation under the "Software Grant and Corporate Contribution
License Agreement" and for which the following copyright notices
apply
         (C) Copyright 2005 Intel Corporation
         (C) Copyright 2005-2006 Intel Corporation
         (C) Copyright 2006 Intel Corporation

Portions of Apache Harmony's Class Library TEXT module contain JavaDoc
derived from the ICU project.
Copyright (c) 1995-2008 International Business Machines Corporation and
 others


The Apache Harmony Development Kit (HDK) contains a jar file from the
Apache Derby Project for which the following notice applies:

Apache Derby
Copyright 2004-2007 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Portions of Derby were originally developed by
International Business Machines Corporation and are
licensed to the Apache Software Foundation under the
"Software Grant and Corporate Contribution License Agreement",
informally known as the "Derby CLA".
The following copyright notice(s) were affixed to portions of the code
with which this file is now or was at one time distributed
and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation.
All rights reserved.

(C) Copyright IBM Corp. 2003.

The portion of the functionTests under 'nist' was originally
developed by the National Institute of Standards and Technology (NIST),
an agency of the United States Department of Commerce, and adapted by
International Business Machines Corporation in accordance with the NIST
Software Acknowledgment and Redistribution document at
http://www.itl.nist.gov/div897/ctg/sql_form.htm
```

```
Portions of the Apache Portable Runtime used by DRLVM were
developed at the National Center for Supercomputing Applications
(NCSA) at the University of Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security
Inc. MD5 Message-Digest Algorithm.

This software contains code derived from UNIX V7, Copyright(C)
Caldera International Inc.


---
This product contains a modified version of Roland Kuhn's ASL2
AbstractNodeQueue, which is based on Dmitriy Vyukov's non-intrusive MPSC
 queue.
It can be obtained at:

  * LICENSE:
    * license/LICENSE.abstractnodequeue.txt (Public Domain)
  * HOMEPAGE:
    * https://github.com/akka/akka/blob/wip-2.2.3-for-scala-2.11/akka-actor/
src/main/java/akka/dispatch/AbstractNodeQueue.java

This software is licensed under the Apache 2 license, quoted below.

Copyright 2009-2013 Typesafe Inc. [http://www.typesafe.com]

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at

    [http://www.apache.org/licenses/LICENSE-2.0]

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
 under
the License.


---
This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

Copyright (c) 2010 Matthew J. Francis and Contributors of the jbzip2 Project

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
```

```
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/libdivsufsort/

The libdivsufsort copyright is as follows:

Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

See also the libdivsufsort web site:
  http://libdivsufsort.googlecode.com/ for more information.

---
This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

/*
 * Copyright 2012 Real Logic Ltd.
```

```
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */


---
This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

---
This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
  * HOMEPAGE:
    * http://code.google.com/p/protobuf/

Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.


---
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0) https://github.com/
twitter/hpack/blob/master/LICENSE
  * HOMEPAGE:
    * https://github.com/twitter/hpack

READ ME:
Copyright 2013 Twitter, Inc.

Licensed under the Apache License, Version 2.0: http://www.apache.org/
licenses/LICENSE-2.0

---
This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0) https://
github.com/apache/commons-lang/blob/master/LICENSE.txt
  * HOMEPAGE:
* https://commons.apache.org/proper/commons-lang/

---
```

Provider: lckr / Component(s): jupyterlab_variableinspector 0.3.0

```
=== ==========================================================================
------------------------------- Top-level license --------------------------

    == NAME OF DEPENDENCY 0
    . @lckr/jupyterlab_variableinspector@0.3.0
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2018 lckr

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---------------------------- Fourth-party information ----------------------
=== ==========================================================================

    == NAME OF DEPENDENCY 1
    . @jupyterlab/application@1.2.9
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 2
    . @jupyterlab/apputils@1.2.9
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 3
    . @jupyterlab/coreutils@3.2.0
    == License Type
```

```
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 4
    . @jupyterlab/csvviewer@1.2.9
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 5
    . @jupyterlab/notebook@1.2.10
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 6
    . @jupyterlab/services@4.2.3
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
```

```
    . Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 7
    . @phosphor/datagrid@0.1.11
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2014-2017, PhosphorJS Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
```

```
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Lightbend Inc. / Component(s): Akka 2.5.22

```
com.typesafe.akka
COPYRIGHT: Copyright (C) 2018-2019 Lightbend Inc. <https://
www.lightbend.com>
LICENSE: Apache 2.0

                             Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
```

```
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
```

```
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
```

```
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


********************
Modules:
********************
actor, actorTests,
agent,
benchJmh,
camel,
cluster, clusterMetrics, clusterSharding, clusterTools,
contrib,
distributedData,
multiNodeTestkit,
osgi,
persistence, persistenceQuery, persistenceShared, persistenceTck,
protobuf,
remote, remoteTests,
slf4j,
stream, streamTestkit, streamTests, streamTestsTck,
testkit,
discovery,
coordination,
docs,
actorTyped, actorTypedTests, actorTestkitTyped,
persistenceTyped,
clusterTyped, clusterShardingTyped,
benchJmhTyped,
streamTyped


********************
4P Dependencies:
********************
URL for Dependencies is here: https://github.com/akka/akka/blob/v2.5.22/
project/Dependencies.scala


com.typesafe » config
COPYRIGHT: Copyright (C) 2011-2012 Typesafe Inc. <http://typesafe.com>
LICENSE: Apache 2.0 https://github.com/lightbend/config/blob/v1.3.3/
LICENSE-2.0.txt


---
org.scala-lang » scala-library

COPYRIGHT and LICENSE:
Scala
Copyright (c) 2002-2018 EPFL
Copyright (c) 2011-2018 Lightbend, Inc.

Scala includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
See the License for the specific language governing permissions and
limitations under the License.

This software includes projects with other licenses -- see `doc/LICENSE.md`.

---
---
io.aeron » aeron-driver
io.aeron » aeron-client
COPYRIGHT: Copyright 2014-2019 Real Logic Ltd.
LICENSE: Apache 2.0 https://github.com/real-logic/aeron/blob/1.15.0/LICENSE


---
io.netty » netty

COPYRIGHT: Copyright 2011 The Netty Project

LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0

NOTICE FILE (required only):
  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.

  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:
```

```
  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuate of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.


  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified version of 'JZlib', a re-implementation of
zlib in pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD Style License)
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights
 reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
 distribution.

  3. The names of the authors may not be used to endorse or promote products
     derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
```

```
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

This product contains a modified version of 'Webbit', a Java event based
WebSocket and HTTP server:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
(BSD License: http://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.

* Neither the name of the Webbit nor the names of
  its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

-----
org.scala-lang.modules
COPYRIGHT and LICENSE:
Copyright (c) 2002-2013 EPFL
Copyright (c) 2011-2013 Typesafe, Inc.
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the EPFL nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------


org.scala-stm
COPYRIGHT and LICENSE:
Copyright (c) 2009-2012 Stanford University, unless otherwise specified.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the Stanford University nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL STANFORD UNIVERSITY BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
```

```
org.apache.camel » camel-core
LICENSE: Apache 2.0 https://github.com/apache/camel/blob/camel-2.17.7/
LICENSE.txt

---
org.slf4j » slf4j-api
COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---
org.lmdbjava » lmdbjava
COPYRIGHT: Copyright (C) 2016 - 2019 The LmdbJava Open Source Project
LICENSE: Apache 2.0 https://github.com/lmdbjava/lmdbjava/blob/
lmdbjava-0.6.1/LICENSE.txt




---
org.osgi » org.osgi.core
org.osgi » org.osgi.compendium
COPYRIGHT and LICENSE:
opyright (c) OSGi Alliance (2011, 2013). All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.



---
com.typesafe » ssl-config-core
COPYRIGHT: Copyright (C) 2015 - 2019 Lightbend Inc. <https://
www.lightbend.com>
LICENSE: Apache 2.0 https://www.apache.org/licenses/LICENSE-2.0
```

```
---
org.reactivestreams » reactive-streams
COPYRIGHT and LICENSE:
Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with
this code has waived all copyright and related or neighboring
rights to this code.

You should have received a copy of the CC0 legalcode along with this
work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.


===

CC0 1.0 Universal
Official translations of this legal tool are available in other languages.

    CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
 LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-
CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-
IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS
 DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS
 LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE
 INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
 exclusive Copyright and Related Rights (defined below) upon the creator
 and subsequent owner(s) (each and all, an "owner") of an original work of
 authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the
 purpose of contributing to a commons of creative, cultural and scientific
 works ("Commons") that the public can reliably and without fear of later
 claims of infringement build upon, modify, incorporate in other works,
 reuse and redistribute as freely as possible in any form whatsoever and
 for any purposes, including without limitation commercial purposes. These
 owners may contribute to the Commons to promote the ideal of a free culture
 and the further production of creative, cultural and scientific works, or
 to gain reputation or greater distribution for their Work in part through
 the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of additional consideration or compensation, the person associating CC0
 with a Work (the "Affirmer"), to the extent that he or she is an owner
 of Copyright and Related Rights in the Work, voluntarily elects to apply
 CC0 to the Work and publicly distribute the Work under its terms, with
 knowledge of his or her Copyright and Related Rights in the Work and the
 meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
 protected by copyright and related or neighboring rights ("Copyright and
 Related Rights"). Copyright and Related Rights include, but are not limited
 to, the following:

    the right to reproduce, adapt, distribute, perform, display,
 communicate, and translate a Work;
    moral rights retained by the original author(s) and/or performer(s);
    publicity and privacy rights pertaining to a person's image or likeness
 depicted in a Work;
```

```
    rights protecting against unfair competition in regards to a Work,
 subject to the limitations in paragraph 4(a), below;
    rights protecting the extraction, dissemination, use and reuse of data
 in a Work;
    database rights (such as those arising under Directive 96/9/EC of
 the European Parliament and of the Council of 11 March 1996 on the legal
 protection of databases, and under any national implementation thereof,
 including any amended or successor version of such directive); and
    other similar, equivalent or corresponding rights throughout the
 world based on applicable law or treaty, and any national implementations
 thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of,
 applicable law, Affirmer hereby overtly, fully, permanently, irrevocably
 and unconditionally waives, abandons, and surrenders all of Affirmer's
 Copyright and Related Rights and associated claims and causes of action,
 whether now known or unknown (including existing as well as future claims
 and causes of action), in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "Waiver").
 Affirmer makes the Waiver for the benefit of each member of the public
 at large and to the detriment of Affirmer's heirs and successors, fully
 intending that such Waiver shall not be subject to revocation, rescission,
 cancellation, termination, or any other legal or equitable action to
 disrupt the quiet enjoyment of the Work by the public as contemplated by
 Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
 be judged legally invalid or ineffective under applicable law, then the
 Waiver shall be preserved to the maximum extent permitted taking into
 account Affirmer's express Statement of Purpose. In addition, to the
 extent the Waiver is so judged Affirmer hereby grants to each affected
 person a royalty-free, non transferable, non sublicensable, non exclusive,
 irrevocable and unconditional license to exercise Affirmer's Copyright
 and Related Rights in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "License").
 The License shall be deemed effective as of the date CC0 was applied by
 Affirmer to the Work. Should any part of the License for any reason be
 judged legally invalid or ineffective under applicable law, such partial
 invalidity or ineffectiveness shall not invalidate the remainder of the
 License, and in such case Affirmer hereby affirms that he or she will
 not (i) exercise any of his or her remaining Copyright and Related Rights
 in the Work or (ii) assert any associated claims and causes of action
 with respect to the Work, in either case contrary to Affirmer's express
 Statement of Purpose.

4. Limitations and Disclaimers.

    No trademark or patent rights held by Affirmer are waived, abandoned,
 surrendered, licensed or otherwise affected by this document.
    Affirmer offers the Work as-is and makes no representations or
 warranties of any kind concerning the Work, express, implied, statutory
 or otherwise, including without limitation warranties of title,
 merchantability, fitness for a particular purpose, non infringement, or the
 absence of latent or other defects, accuracy, or the present or absence of
 errors, whether or not discoverable, all to the greatest extent permissible
 under applicable law.
    Affirmer disclaims responsibility for clearing rights of other persons
 that may apply to the Work or any use thereof, including without limitation
```

```
 any person's Copyright and Related Rights in the Work. Further, Affirmer
 disclaims responsibility for obtaining any necessary consents, permissions
 or other rights required for any use of the Work.
    Affirmer understands and acknowledges that Creative Commons is not a
 party to this document and has no duty or obligation with respect to this
 CC0 or use of the Work.


---

org.scala-lang.modules scala-xml
COPYRIGHT and LICENSE:


Copyright (c) 2002-2013 EPFL Copyright (c) 2011-2013 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the EPFL nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



---
org.fusesource sigar
COPYRIGHT:
LICENSE: Apache 2.0 https://github.com/hyperic/sigar/blob/sigar-1.6.4/
LICENSE

NOTICE FILE:
Hyperic SIGAR includes some third-party open source components
in its distribution. The list below identifies the community or
organization and links to their appropriate license terms.

The Hyperic team would like to thank all the communities
of the projects listed below for their contributions.
----------------------------------------------------------------------

The following components are included without modification:

- log4j -
Information: http://logging.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0
```

```
The following components are included with modification:

- cpptasks -
Information: http://ant-contrib.sourceforge.net/
License: http://ant-contrib.sourceforge.net/LICENSE.txt
Apache 2.0 https://github.com/cniweb/ant-contrib/blob/master/LICENSE.md


- (portions of) APR -
Information: http://apr.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0

- solaris get_mib2 -
Information: ftp://vic.cc.purdue.edu/pub/tools/unix/solaris/get_mib2/
License: within src/os/solaris/get_mib2.[ch]

Copyright 1995 Purdue Research Foundation, West Lafayette, Indiana
47907.  All rights reserved.

Written by Victor A. Abell <abe@cc.purdue.edu>

This software is not subject to any license of the American Telephone
and Telegraph Company or the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it freely, subject
to the following restrictions:

1. Neither Victor A  Abell nor Purdue University are responsible for
   any consequences of the use of this software.

2. The origin of this software must not be misrepresented, either by
   explicit claim or by omission.  Credit to Victor A. Abell and Purdue
   University must appear in documentation and sources.

3. Altered versions must be plainly marked as such, and must not be
   misrepresented as being the original software.

4. This notice may not be removed or altered.

----
org.jctools jctools-core
COPYRIGHT: Copyright 2012 Real Logic Ltd.
LICENSE: Apache 2.0 https://github.com/JCTools/JCTools/blob/v2.1.2/LICENSE
```

Provider: Lightbend Inc. / Component(s): Akka HTTP 10.1.8

```
akka-http 10.1.8

COPYRIGHT and LICENSE:

This software is licensed under the Apache 2 license, quoted below.

Copyright 2009-2019 Lightbend Inc. [https://www.lightbend.com]

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at

    [http://www.apache.org/licenses/LICENSE-2.0]
```

```
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
 under
the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
```

```
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
```

```
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


*************************
Modules:
*************************

parsing,
httpCore,
http2Support,
http,
httpCaching,
httpTestkit,
httpTests,
httpMarshallersScala,
httpMarshallersJava,
docs


*************************
```

```
4P Dependencies:
*************************

Fasterxml Jackson Databind
COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0
---
Scala Library
COPYRIGHT:
Copyright (c) 2002-2019 EPFL
Copyright (c) 2011-2019 Lightbend, Inc.

Scala includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This software includes projects with other licenses -- see `doc/LICENSE.md`.

---
Scalaxml
COPYRIGHT:

Copyright (c) 2002-2019 EPFL
Copyright (c) 2011-2019 Lightbend, Inc.

LICENSE: Apache 2.0 https://github.com/scala/scala-xml/blob/v1.2.0/LICENSE

---
spray-json
/*

* Copyright (C) 2011,2012 Mathias Doenitz, Johannes Rudolph

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,
```

```
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

---
com.twitter Hpack
/*
 * Copyright 2014 Twitter, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

---
org.eclipse.jetty.alpn:alpn-api
COPYRIGHT and LICENSE:
//  Copyright (c) 1995-2015 Mort Bay Consulting Pty. Ltd.
//  ----------------------------------------------------------------------------
//  All rights reserved. This program and the accompanying materials
//  are made available under the terms of the Eclipse Public License v1.0
//  and Apache License v2.0 which accompanies this distribution.
//
//      The Eclipse Public License is available at
//      http://www.eclipse.org/legal/epl-v10.html
//
//      The Apache License v2.0 is available at
//      http://www.opensource.org/licenses/apache2.0.php
//
//  You may elect to redistribute this code under either of these licenses.

Oracle elects the terms of Apache 2.0 License.
---
com.github.ben-manes.caffeine
/*
 * Copyright 2015 Ben Manes. All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Provider: Lightbend Inc. / Component(s): Playframework Play-Json 2.7.4

```
com.typesafe.play:play-json:2.7.4
COPYRIGHT: Copyright (C) 2009-2019 Lightbend Inc. <https://
www.lightbend.com>
LICENSE: Apache 2.0

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



**********************
4P Dependencies:
**********************
```

```
com.fasterxml.jackson.core:jackson-core:2.9.9
com.fasterxml.jackson.core:jackson-annotation:2.9.9
com.fasterxml.jackson.core:jackson-databind:2.9.9
com.fasterxml.jackson.core:jackson-datatype-jdk8:2.9.9
com.fasterxml.jackson.core:jackson-datatype-jsr310:2.9.9

COPYRIGHT:
(C) 2007 Tatu Saloranta (tatu.saloranta@iki.fi)
(C) 2012 Fasterxml

LICENSE:
You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0



---
com.typesafe.play:play-functional:2.7.4
COPYRIGHT: Copyright (C) 2009-2019 Lightbend Inc. <https://
www.lightbend.com>
LICENSE: Apache 2.0 https://github.com/playframework/play-json/blob/2.7.4/
LICENSE


---
org.scala-lang:scala-library:2.13.0
org.scala-lang:scala-reflect:2.13.0
COPYRIGHT:
Scala
Copyright (c) 2002-2019 EPFL
Copyright (c) 2011-2019 Lightbend, Inc.

This software includes projects with other licenses -- see `doc/LICENSE.md`.

LICENSE: Apache 2.0 https://github.com/scala/scala/blob/2.13.x/LICENSE



---
joda-time 2.10.1
COPYRIGHT: Copyright 2001-2009 Stephen Colebourne
LICENSE: Apache 2.0 https://github.com/JodaOrg/joda-time/blob/master/
LICENSE.txt
```

Provider: Lightbend Inc. / Component(s): Playframework Play-Slick 4.0.2

```
Play Framework Play-Slick 4.0.2

COPYRIGHT and LICENSE:
Copyright (C) 2009-2017 Lightbend Inc. (https://www.lightbend.com).

License: Apache License 2.0


                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
```

```
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


*****************
4P Dependencies:
*****************

com.typesafe.play:play-jdbc-api:2.7.3
com.typesafe.play:play-jdbc-evolutions:2.7.3

COPYRIGHT: Copyright (C) 2009-2019 Lightbend Inc. <https://
www.lightbend.com>
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0.html


---
com.typesafe.slick:slick:3.3.2
com.typesafe.slick:slick-hikaricp:3.3.2
COPYRIGHT and LICENSE:
Copyright 2011-2016 Typesafe, Inc.
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

Provider: Lloyd Chan / Component(s): Enumeratum 1.5.13

```
lloydmeta/enumeratum 1.5.13
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2016 by Lloyd Chan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


-----------------
Modules:

benchmarking
enumeratum-argonaut
enumeratum-circe
enumeratum-core-jvm-tests/
enumeratum-core
enumeratum-json4s
```

```
enumeratum-play-json
enumeratum-play
enumeratum-quill
enumeratum-reactivemongo-bson
enumeratum-scalacheck
enumeratum-test
enumeratum-upickle

-----------------
4P Dependencies:


org.scala-lang » scala-library 2.12.4
COPYRIGHT and LICENSE:
This software includes projects with other licenses -- see `doc/LICENSE.md`.

Copyright (c) 2002-2017 EPFL
Copyright (c) 2011-2017 Lightbend, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
  * Neither the name of the EPFL nor the names of its contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
com.typesafe.play » play-json_2.12 2.6.9
COPYRIGHT: (C) 2009-2019 Lightbend Inc. <https://www.lightbend.com>
LICENSE: Apache 2.0 https://github.com/playframework/playframework/
blob/2.6.9/LICENSE



---
org.json4s » json4s-core_2.12 3.5.3
COPYRIGHT: Copyright 2006-present json4s community
LICENSE: Apache 2.0 https://github.com/json4s/json4s/blob/v3.5.3/LICENSE
```

```
---
io.circe » circe-core_2.12 0.9.2
COPYRIGHT:
Copyright (c) 2015, Ephox Pty Ltd, Mark Hibberd, Sean Parsons, Travis Brown,
 and
other contributors. All rights reserved.
LICENSE: Apache 2.0 https://github.com/circe/circe/blob/v0.9.2/LICENSE

====
argonot license:
Copyright (c) 2012, Ephox Pty Ltd, Mark Hibberd, Sean Parsons and other
 contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

====
Copyright (c) 2012, Ephox Pty Ltd
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
---
io.getquill » quill-core_2.12 2.3.3
Copyright: (c) Flavio W. Brasil
LICENSE: Apache 2.0 https://github.com/getquill/quill/blob/v2.3.3/
LICENSE.txt


---
io.argonaut » argonaut_2.12 6.2.1
COPYRIGHT and LICENSE:
Copyright (c) 2012, Ephox Pty Ltd, Mark Hibberd, Sean Parsons and other
 contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
org.reactivemongo » reactivemongo_2.12 0.13.0
COPYRIGHT: Copyright 2012-2013 Stephane Godbillon (@sgodbillon) and
 contributors.
LICENSE: Apache 2.0 https://github.com/ReactiveMongo/ReactiveMongo/
blob/0.13.0/LICENSE.txt


---
com.lihaoyi » upickle_2.12 0.4.4
COPYRIGHT and LICENSE:
Copyright (c) 2016 haoyi.sg@gmail.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
```

```
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


---
org.scalacheck » scalacheck_2.12 1.13.5
COPYRIGHT and LICENSE:
ScalaCheck LICENSE

Copyright (c) 2007-2016, Rickard Nilsson
All rights reserved.

Permission to use, copy, modify, and distribute this software in source
or binary form for any purpose with or without fee is hereby granted,
provided that the following conditions are met:

   1. Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

   3. Neither the name of the author nor the names of its contributors
      may be used to endorse or promote products derived from this
      software without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
```

Provider: LLVM.org / Component(s): LLVM 10.0.0

```
==============================================================================
The LLVM Project is under the Apache License v2.0 with LLVM Exceptions:
==============================================================================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

    1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

    4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

    END OF TERMS AND CONDITIONS

    APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

    Copyright [yyyy] [name of copyright owner]

    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.


---- LLVM Exceptions to the Apache 2.0 License ----
```

```
As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into an Object form of such source code, you
may redistribute such embedded portions in such Object form without
 complying
with the conditions of Sections 4(a), 4(b) and 4(d) of the License.

In addition, if you combine or link compiled forms of this Software with
software that is licensed under the GPLv2 ("Combined Software") and if a
court of competent jurisdiction determines that the patent provision
 (Section
3), the indemnity provision (Section 9) or other Section of the License
conflicts with the conditions of the GPLv2, you may retroactively and
prospectively choose to deem waived or otherwise exclude such Section(s) of
the License, but only in their entirety and only with respect to the
 Combined
Software.

==============================================================================
Software from third parties included in the LLVM Project:
==============================================================================
The LLVM Project contains third party software which is under different
 license
terms. All such code will be identified clearly using at least one of two
mechanisms:
1) It will be in a separate directory tree with its own `LICENSE.txt` or
   `LICENSE` file at the top containing the specific license and
 restrictions
   which apply to that software, or
2) It will contain specific license and restriction terms at the top of
 every
   file.

==============================================================================
Legacy LLVM License (https://llvm.org/docs/DeveloperPolicy.html#legacy):
==============================================================================
University of Illinois/NCSA
Open Source License

Copyright (c) 2003-2019 University of Illinois at Urbana-Champaign.
All rights reserved.

Developed by:

    LLVM Team

    University of Illinois at Urbana-Champaign

    http://llvm.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 with
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimers.
```

```
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimers in the
      documentation and/or other materials provided with the distribution.

    * Neither the names of the LLVM Team, University of Illinois at
      Urbana-Champaign, nor the names of its contributors may be used to
      endorse or promote products derived from this Software without
 specific
      prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH
 THE
SOFTWARE.


=============== test/YAMLParser =================
Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

=========== include/llvm/support ==================
LLVM System Interface Library
-------------------------------------------------------------------------------
The LLVM System Interface Library is licensed under the Illinois Open Source
License and has the following additional copyright:

Copyright (C) 2004 eXtensible Systems, Inc.

================== utils/unittest/googlemock ====================
AND also
================== utils/unittest/googletest ====================
Copyright 2008, Google Inc.
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

================= utils/benchmark ================================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: LLVM.org / Component(s): LLVM 12.0.1

```
===============================================================================
The LLVM Project is under the Apache License v2.0 with LLVM Exceptions:
===============================================================================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

    1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

    4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

    END OF TERMS AND CONDITIONS

    APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

    Copyright [yyyy] [name of copyright owner]

    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.


---- LLVM Exceptions to the Apache 2.0 License ----
```

```
As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into an Object form of such source code, you
may redistribute such embedded portions in such Object form without
 complying
with the conditions of Sections 4(a), 4(b) and 4(d) of the License.

In addition, if you combine or link compiled forms of this Software with
software that is licensed under the GPLv2 ("Combined Software") and if a
court of competent jurisdiction determines that the patent provision
 (Section
3), the indemnity provision (Section 9) or other Section of the License
conflicts with the conditions of the GPLv2, you may retroactively and
prospectively choose to deem waived or otherwise exclude such Section(s) of
the License, but only in their entirety and only with respect to the
 Combined
Software.

==============================================================================
Software from third parties included in the LLVM Project:
==============================================================================
The LLVM Project contains third party software which is under different
 license
terms. All such code will be identified clearly using at least one of two
mechanisms:
1) It will be in a separate directory tree with its own `LICENSE.txt` or
   `LICENSE` file at the top containing the specific license and
 restrictions
   which apply to that software, or
2) It will contain specific license and restriction terms at the top of
 every
   file.

==============================================================================
Legacy LLVM License (https://llvm.org/docs/DeveloperPolicy.html#legacy):
==============================================================================
University of Illinois/NCSA
Open Source License

Copyright (c) 2003-2019 University of Illinois at Urbana-Champaign.
All rights reserved.

Developed by:

    LLVM Team

    University of Illinois at Urbana-Champaign

    http://llvm.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 with
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimers.
```

```
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimers in the
      documentation and/or other materials provided with the distribution.

    * Neither the names of the LLVM Team, University of Illinois at
      Urbana-Champaign, nor the names of its contributors may be used to
      endorse or promote products derived from this Software without
 specific
      prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH
 THE
SOFTWARE.


=============== test/YAMLParser =================
Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

=========== include/llvm/support ==================
LLVM System Interface Library
-------------------------------------------------------------------------------
The LLVM System Interface Library is licensed under the Illinois Open Source
License and has the following additional copyright:

Copyright (C) 2004 eXtensible Systems, Inc.

================== utils/unittest/googlemock ====================
AND also
================== utils/unittest/googletest ====================
Copyright 2008, Google Inc.
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

================= utils/benchmark ================================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Loren Segal / Component(s): yard 0.9.5

```
https://github.com/lsegal/yard/blob/master/LICENSE
Copyright (c) 2007-2016 Loren Segal

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
```

```
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Luca Bruno / Component(s): rust-caps 0.0.1

```
Dual licensed under MIT/APACHE:
Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
```

```
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
```

```
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
```

```
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

4th Party Dependencies (also licensed under MIT/APACHE2):
- custom_derive 0.1.7
- enum_derive 0.1.7
- error-chain 0.10.0
```

Provider: Lukas Krecan / Component(s): shedlock-provider-jdbc-template 4.35.0

```
************************************************************
***************** Copied from BA Public License *****************

************************************************************
********* Copied from LT Public License & Copyright Notices *********
https://github.com/lukas-krecan/ShedLock/blob/shedlock-parent-4.35.0/
header.txt
==
```

```
Copyright 2009 the original author or authors.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-----
https://github.com/lukas-krecan/ShedLock/blob/shedlock-parent-4.35.0/
LICENSE.txt
=
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
====

Spring Framework

Copyright (c) 2002-${copyright} Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
```

```
(the "License"). You may not use this product except in compliance with
the License.

This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.
```

Provider: Lukas Krecan / Component(s): shedlock-spring 4.35.0

```
*************************************************************
***************** Copied from BA Public License *****************

*************************************************************
********* Copied from LT Public License & Copyright Notices *********
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Spring Framework
```

```
Copyright (c) 2002-${copyright} Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.

This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.
```

Provider: Łukasz Langa / Component(s): configparser 3.5.0

```
Copyright 2017 Lukasz Langa

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Luke Maurits / Component(s): PrettyTable 0.7.2

```
# Copyright (c) 2009-2013 Luke Maurits <luke@maurits.id.au>
# All rights reserved.
# With contributions from:
#  * Chris Clark
#  * Christoph Robbert
#  * Klein Stephane
#  * "maartendb"
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are
 met:
#
# * Redistributions of source code must retain the above copyright notice,
#   this list of conditions and the following disclaimer.
# * Redistributions in binary form must reproduce the above copyright
 notice,
#   this list of conditions and the following disclaimer in the
 documentation
#   and/or other materials provided with the distribution.
# * The name of the author may not be used to endorse or promote products
#   derived from this software without specific prior written permission.
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
```

```
# AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
# IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
# ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
# LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
# INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
# CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
# POSSIBILITY OF SUCH DAMAGE.
```

Provider: M. Lee Hinman / Component(s): clj-http 2.3.0

```
The MIT License (MIT)
+
+Copyright (c) 2013 M. Lee Hinman
+
+Permission is hereby granted, free of charge, to any person obtaining a
 copy
+of this software and associated documentation files (the "Software"), to
 deal
+in the Software without restriction, including without limitation the
 rights
+to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
+copies of the Software, and to permit persons to whom the Software is
+furnished to do so, subject to the following conditions:
+
+The above copyright notice and this permission notice shall be included in
+all copies or substantial portions of the Software.
+
+THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
+IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
+FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
+AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
+LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
+OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
+THE SOFTWARE.
```

Provider: Manuel Martínez-Almeida / Component(s): gin 1.3

```
gin 1.3

COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2014 Manuel Martínez-Almeida

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


=====================
4P Dependencies:


go-spew version 1.1.0
github.com/davecgh/go-spew
COPYRIGHT and LICENSE:
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



---
sse version 22d885f9ecc78bf4ee5d72b937e4bbcdc58e8cae
github.com/gin-contrib/sse
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2014 Manuel Martínez-Almeida

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
golang protobuf version 5a0f697c9ed9d68fef0116532c6e05cfeae00e55
```

```
github.com/golang/protobuf
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
json-iterator / go
github.com/json-iterator/go
COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---
```

```
go-isatty version 57fdcb988a5c543893cc61bce354a6e24ab70022
github.com/mattn/go-isatty
COPYRIGHT and LICENSE:
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

MIT License (Expat)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.




---
assert version 1.1.4
github.com/stretchr/testify
COPYRIGHT and LICENSE:
Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell

Please consider promoting this project if you find it useful.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---
codec version c88ee250d0221a57af388746f5cf03768c21d6e2
github.com/ugorji/go/codec
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2012-2015 Ugorji Nwoke.
All rights reserved.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---
context version release-branch.go1.7
golang.org/x/net/context
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
unix version 99f16d856c9836c42d24e7ab64ea72916925fa97
golang.org/x/sys/unix
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
gopkg.in validator version 8.18.2
gopkg.in/go-playground/validator.v8
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Dean Karn

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---
go v1.1.1
github.com/ugorji/go,v1.1.1
COPYRIGHT and LICENSE:
The MIT License (MIT)
```

```
Copyright (c) 2012-2015 Ugorji Nwoke.
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---
gopkg.in yaml version 670d4cfef0544295bc27a114dbac37980d83185a
https://gopkg.in/yaml.v2
COPYRIGHT: Copyright 2011-2016 Canonical Ltd.
LICENSE: Apache 2.0
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
```

```
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
```

```
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
 limitations under the License
```

Provider: Mapbox / Component(s): mapbox-gl-js 1.10

```
Copyright (c) 2020, Mapbox

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
```

```
    * Neither the name of Mapbox GL JS nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------

Contains code from glfx.js

Copyright (C) 2011 by Evan Wallace

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

---------------------------------------------------------------------------------

Contains a portion of d3-color https://github.com/d3/d3-color

Copyright 2010-2016 Mike Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
```

```
* Neither the name of the author nor the names of contributors may be used
 to
  endorse or promote products derived from this software without specific
 prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### Fourth Party Dependencies

geojson-rewind

Copyright (c) 2020, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.


geojson-types

MIT License

Copyright (c) 2018 Mapbox

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


jsonlint-lines-primitives

Copyright (C) 2012 Zachary Carter

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in the
Software without restriction, including without limitation the rights to
 use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies of the
 Software,
and to permit persons to whom the Software is furnished to do so, subject to
 the
following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
 COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH
 THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


mapbox-gl-supported

BSD 3-Clause License

Copyright (c) 2017, Mapbox
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


point-geometry

Copyright (c) 2015, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.License: ISC


tiny-sdf

Copyright © 2016-2017 Mapbox, Inc.
This code available under the terms of the BSD 2-Clause license.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
 notice,
this list of conditions and the following disclaimer in the documentation
 and/or
other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS”
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
 EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
unitbezier: 0.0.0

BSD-2-Clause

Copyright (C) 2008 Apple Inc. All Rights Reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY APPLE INC. ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL APPLE INC. OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Ported from Webkit
http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/
graphics/UnitBezier.h


vector-tile: 1.3.1

Copyright (c) 2014, Mapbox

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of llmr nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
```

```
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


whoots-js

ISC License

Copyright (c) 2017, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.


Csscolorparser

(c) Dean McNamee <dean@gmail.com>, 2012.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.


Earcut

ISC License

Copyright (c) 2016, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
```

```
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.


geojson-vt

ISC License

Copyright (c) 2015, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.


gl-matrix

Copyright (c) 2015-2020, Brandon Jones, Colin MacKenzie IV.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


grid-index: 1.1.0

Copyright (c) 2016, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.


Minimist

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


murmurhash-js

Copyright (c) 2011 Gary Court
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
 use,
copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
 the
Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
 COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH
 THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Pbf

Copyright (c) 2017, Mapbox
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of pbf nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Potpack

ISC License
```

```
Copyright (c) 2018, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.


Quickselect

ISC License

Copyright (c) 2018, Vladimir Agafonkin

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.


Rw

Copyright (c) 2014-2016, Michael Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
```

```
* The name Michael Bostock may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


supercluster: 7.0.0

ISC License

Copyright (c) 2016, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.


Tinyqueue

ISC License

Copyright (c) 2017, Vladimir Agafonkin

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
```

```
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
NOTORIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF
THIS SOFTWARE.
```

Provider: mapbox.com / Component(s): Earcut 2.1.3

```
ISC License

Copyright (c) 2016, Mapbox

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.
```

Provider: MapStruct Authors / Component(s): mapstruct-core 1.5.5.Final

```
Copyright: MapStruct Authors
License: Apache 2.0

 ./LICENSE.txt

 Copyright MapStruct Authors.

 MapStruct is licensed under the Apache License version 2.0, available at
 http://www.apache.org/licenses/LICENSE-2.0

---------------------------------------------------------------------------

 MAPSTRUCT SUBCOMPONENTS WITH DIFFERENT COPYRIGHT OWNERS

 The MapStruct distribution (ZIP, TAR.GZ) as well as the MapStruct
 library (JAR) include FreeMarker, a software developed by Attila
 Szegedi, Daniel Dekany and Jonathan Revusky. FreeMarker is licensed
 under the same license as MapStruct itself - Apache License, Version
 2.0 - but the copyright owners are the aforementioned individuals.

 The MapStruct distribution (ZIP, TAR.GZ) as well as the MapStruct
 library (JAR) include a number of files that are licensed by the
 Apache Software Foundation under the same license as MapStruct itself -
 Apache License, Version 2.0 - but the copyright owner is the Apache
 Software Foundation. These files are:

     freemarker/ext/jsp/web-app_2_2.dtd
     freemarker/ext/jsp/web-app_2_3.dtd
```

```
     freemarker/ext/jsp/web-app_2_4.xsd
     freemarker/ext/jsp/web-app_2_5.xsd
     freemarker/ext/jsp/web-jsptaglibrary_1_1.dtd
     freemarker/ext/jsp/web-jsptaglibrary_1_2.dtd
     freemarker/ext/jsp/web-jsptaglibrary_2_0.xsd
     freemarker/ext/jsp/web-jsptaglibrary_2_1.xsd

-------------- Separator --------------

 https://www.apache.org/licenses/LICENSE-2.0

                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------
```

Provider: Marc Prud'hommeaux / Component(s): JLine 3.16.0

```
Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
```

```
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

4th Party Dependency
-----------------
org.fusesource.jansi version 1.18
org.apache.sshd 2.1 to 2.4
org.apache.felix.gogo.runtime 1.1.2
org.apache.felix.gogo.jline 1.1.4
-----------------
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-----------------
juniversalchardet

The library is subject to the Mozilla Public License Version 1.1.

Alternatively, the library may be used under the terms of either the GNU
 General Public License Version 2 or later, or the GNU Lesser General Public
 License 2.1 or later.

-----------------

slf4j

SLF4J source code and binaries are distributed under the MIT license.


 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X
 License or the X11 License, which is a simple, permissive non-copyleft
 free software license. It is deemed compatible with virtually all types
 of licenses, commercial or otherwise. In particular, the Free Software
```

```
 Foundation has declared it compatible with GNU GPL. It is also known to
 be approved by the Apache Software Foundation as compatible with Apache
 Software License.
```

Provider: Marc Schlaich / Component(s): Pytest-cov 2.5.1

```
The MIT License

Copyright (c) 2010 Meme Dough

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Marc Schlaich / Component(s): Pytest-cov 2.6.1

```
The MIT License

Copyright (c) 2010 Meme Dough

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Marian Palkus / Component(s): DefinitelyTyped enzyme type definitions 3.9.1

```
@types/enzyme 3.9.1
COPYRIGHT and LICENSE:
```

```
// Type definitions for Enzyme 3.9
// Project: https://github.com/airbnb/enzyme
// Definitions by: Marian Palkus <https://github.com/MarianPalkus>
//                 Cap3 <http://www.cap3.de>
//                 Ivo Stratev <https://github.com/NoHomey>
//                 jwbay <https://github.com/jwbay>
//                 huhuanming <https://github.com/huhuanming>
//                 MartynasZilinskas <https://github.com/MartynasZilinskas>
//                 Torgeir Hovden <https://github.com/thovden>
//                 Martin Hochel <https://github.com/hotell>
//                 Christian Rackerseder <https://github.com/screendriver>
// Definitions: https://github.com/DefinitelyTyped/DefinitelyTyped
// TypeScript Version: 3.1

This project is licensed under the MIT license.
Copyrights are respective of each contributor listed at the beginning of
 each definition file.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Mario Pastorelli / Component(s): pureconfig 0.11.1

```
com.github.pureconfig:pureconfig:0.11.1
COPYRIGHT: @author Mario Pastorelli (mario.pastorelli@teralitycs.ch)
LICENSE: MPL v2.0

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. "Contributor Version"

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

     means Covered Software of a particular Contributor.

1.4. "Covered Software"
```

```
     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. "Incompatible With Secondary Licenses"
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the terms
 of
        a Secondary License.

1.6. "Executable Form"

     means any form of the work other than Source Code Form.

1.7. "Larger Work"

     means a work that combines Covered Software with other material, in a
     separate file or files, that is not Covered Software.

1.8. "License"

     means this document.

1.9. "Licensable"

     means having the right to grant, to the maximum extent possible,
 whether
     at the time of the initial grant or subsequently, any and all of the
     rights conveyed by this License.

1.10. "Modifications"

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered Software;
 or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

      means any patent claim(s), including without limitation, method,
      process, and apparatus claims, in any patent Licensable by such
      Contributor that would be infringed, but for the grant of the License,
      by the making, using, selling, offering for sale, having made, import,
      or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
```

```
      means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

      means an individual or a legal entity exercising rights under this
      License. For legal entities, "You" includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, "control" means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
        as part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
        Contributions or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
     become effective for each Contribution on the date the Contributor
 first
     distributes such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under
     this License. No additional rights or licenses will be implied from the
     distribution or licensing of Covered Software under this License.
     Notwithstanding Section 2.1(b) above, no patent license is granted by a
     Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
        its Contributions.

     This License does not grant any rights in the trademarks, service
 marks,
```

```
     or logos of any Contributor (except as may be necessary to comply with
     the notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
     License (see Section 10.2) or under the terms of a Secondary License
 (if
     permitted under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
     Contributions are its original creation(s) or it has sufficient rights
 to
     grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
     applicable copyright doctrines of fair use, fair dealing, or other
     equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
     the terms of this License. You must inform recipients that the Source
     Code Form of the Covered Software is governed by the terms of this
     License, and how they can obtain a copy of this License. You may not
     attempt to alter or restrict the recipients' rights in the Source Code
     Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
        License, or sublicense it under different terms, provided that the
        license for the Executable Form does not attempt to limit or alter
 the
        recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work
```

```
     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
     the Covered Software. If the Larger Work is a combination of Covered
     Software with a work governed by one or more Secondary Licenses, and
 the
     Covered Software is not Incompatible With Secondary Licenses, this
     License permits You to additionally distribute such Covered Software
     under the terms of such Secondary License(s), so that the recipient of
     the Larger Work may, at their option, further distribute the Covered
     Software under the terms of either this License or such Secondary
     License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
     (including copyright notices, patent notices, disclaimers of warranty,
 or
     limitations of liability) contained within the Source Code Form of the
     Covered Software, except that You may alter any license notices to the
     extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
     behalf of any Contributor. You must make it absolutely clear that any
     such warranty, support, indemnity, or liability obligation is offered
 by
     You alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
   judicial order, or regulation then You must: (a) comply with the terms of
   this License to the maximum extent possible; and (b) describe the
   limitations and the code they affect. Such description must be placed in
 a
   text file included with all distributions of the Covered Software under
   this License. Except to the extent prohibited by statute or regulation,
   such description must be sufficiently detailed for a recipient of
 ordinary
   skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
     basis, if such Contributor fails to notify You of the non-compliance by
     some reasonable means prior to 60 days after You have come back into
     compliance. Moreover, Your grants from a particular Contributor are
     reinstated on an ongoing basis if such Contributor notifies You of the
```

```
     non-compliance by some reasonable means, this is the first time You
 have
     received notice of non-compliance with this License from such
     Contributor, and You become compliant prior to 30 days after Your
 receipt
     of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions,
     counter-claims, and cross-claims) alleging that a Contributor Version
     directly or indirectly infringes any patent, then the rights granted to
     You by any and all Contributors for the Covered Software under Section
     2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an "as is" basis,
   without warranty of any kind, either expressed, implied, or statutory,
   including, without limitation, warranties that the Covered Software is
 free
   of defects, merchantable, fit for a particular purpose or non-infringing.
   The entire risk as to the quality and performance of the Covered Software
   is with You. Should any Covered Software prove defective in any respect,
   You (not any Contributor) assume the cost of any necessary servicing,
   repair, or correction. This disclaimer of warranty constitutes an
 essential
   part of this License. No use of  any Covered Software is authorized under
   this License except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
   such party's negligence to the extent applicable law prohibits such
   limitation. Some jurisdictions do not allow the exclusion or limitation
 of
   incidental or consequential damages, so this exclusion and limitation may
   not apply to You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
   of a jurisdiction where the defendant maintains its principal place of
   business and such litigation shall be governed by laws of that
   jurisdiction, without reference to its conflict-of-law provisions.
 Nothing
   in this Section shall prevent a party's ability to bring cross-claims or
   counter-claims.
```

```
9. Miscellaneous

   This License represents the complete agreement concerning the subject
   matter hereof. If any provision of this License is held to be
   unenforceable, such provision shall be reformed only to the extent
   necessary to make it enforceable. Any law or regulation which provides
 that
   the language of a contract shall be construed against the drafter shall
 not
   be used to construe this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
      of the License under which You originally received the Covered
 Software,
      or under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
      modified version of this License if you rename the license and remove
      any references to the name of the license steward (except to note that
      such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
      Licenses If You choose to distribute Source Code Form that is
      Incompatible With Secondary Licenses under the terms of this version
 of
      the License, the notice described in Exhibit B of this License must be
      attached.

Exhibit A - Source Code Form License Notice

      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
      obtain one at
      http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

      This Source Code Form is "Incompatible
```

```
      With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.




=======================
4P Dependencies:


com.chuusai » shapeless 2.3.3
COPYRIGHT: Copyright (c) 2011-18 Miles Sabin
LICENSE: Apache 2.0 https://github.com/milessabin/shapeless/blob/
shapeless-2.3.3/LICENSE



===
com.typesafe » config 1.3.4
COPYRIGHT: Copyright (C) 2011-2015 Typesafe Inc. <http://typesafe.com>
LICENSE: Apache 2.0 https://github.com/lightbend/config/blob/v1.3.4/
LICENSE-2.0.txt


===
org.scala-lang » scala-library 2.13.0
COPYRIGHT:
This software includes projects with other licenses -- see `doc/LICENSE.md`.

Copyright (c) 2002-2019 EPFL
Copyright (c) 2011-2019 Lightbend, Inc.

Apache LICENSE: https://github.com/scala/scala/blob/2.13.x/LICENSE




---
This software includes projects with the following licenses, which are also
 included in the licenses/ directory:

Apache License

This license is used by the following third-party libraries:

    jansi

Scala includes the JLine library, which includes the Jansi library.

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



---
BSD License

This license is used by the following third-party libraries:

    jline

Scala includes the JLine library:

Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
```

```
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.


---

This license is used by the following third-party libraries:

    scalacheck

ScalaCheck LICENSE

Copyright (c) 2007-2018, Rickard Nilsson

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the EPFL nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
BSD 3-Clause License

This license is used by the following third-party libraries:
```

```
    asm

Scala includes the ASM library.

Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.



---
MIT License

This license is used by the following third-party libraries:

    jquery


Scala includes the jQuery library:

Copyright (c) 2010 John Resig

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.



---
    tools tooltip
Scala includes the Tools Tooltip library:
```

```
Copyright (c) 2009 Tero Piirainen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

Provider: Mark McGranaghan / Component(s): clj-time 0.11.0

```
For clj-time:
Copyright 2013 Mark McGranaghan, Sean Corfield and other contributors
https://github.com/clj-time/clj-time

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For joda-time 2.8.2:
Copyright (c) 2015, WSO2 Inc. (http://www.wso2.org) All Rights Reserved
http://www.apache.org/licenses/
Apache License

Version 2.0, January 2004
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
```

```
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
```

```
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Mark Pilgrim / Component(s): chardet 3.0.4

```
Copyright Mark Pilgrim and Dan Blanchard

              GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
```

```
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.
```

```
  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.
```

```
    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
```

```
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
```

```
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
```

```
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
```

```
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

       NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

       END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301
 USA

Also add information on how to contact you by electronic and paper mail.
```

```
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!
```

Provider: Markus Manzke / Component(s): Nginx Sticky 1.2.6

```
This module is licenced under the BSD license.

Copyright (C) 2010 Jerome Loyet (jerome at loyet dot net)
Copyright (C) 2014 Markus Manzke (goodman at nginx-goodies dot com)


Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
```

Provider: Marten Gajda / Component(s): lib-recur 0.12.2

```
Copyright: dmfs

 License: Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.


 ------------- Notices -------------
lib-recur - A recurrence processor for Java
Copyright 2013 Marten Gajda  - http://dmfs.org


------- Dependency - org.dmfs:jems

 Copyright:

 License: Apache 2.0

 ------------- Notices -------------
Java gems, a collection of Java utilities.

Copyright 2017 dmfs GmbH- http://dmfs.org

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

------- Dependency - org.dmfs:rfc5545-datetime

 Copyright: dmfs

 License: Apache 2.0

 ------------- Notices -------------
rfc5545-datetime - Java RFC 5545 datetime implementation

Copyright 2014 Marten Gajda  - http://dmfs.org

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



 === Entry created by OSCS on 2022-02-25T20:51:23.496
```

Provider: Martin Durant / Component(s): fastparquet 0.8.3

```
------------------------------ Top-level license -------------------------
```

```
Copyright 2016, Continuum Analytics Revision e0375408.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
```

```
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
```

```
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
======================================================================
.
.
---------------------------- Fourth-party information ----------------------
cramjam
MIT License

Copyright (c) 2020 Miles Granger

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

.
--------------------------------(separator)---------------------------------
fsspec
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
.
--------------------------------(separator)---------------------------------
numpy

Copyright (c) 2005-2021, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
.
--------------------------------(separator)---------------------------------
pandas

BSD 3-Clause License

Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2020, Open source contributors.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
.
--------------------------------(separator)---------------------------------
python-dateutil

Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.
```

```
.
--------------------------------(separator)---------------------------------
six
Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
.
--------------------------------(separator)---------------------------------
pytz

Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
.
--------------------------------(separator)---------------------------------
thrift

Copyright © 2021 Apache Software Foundation.

Licensed to the Apache Software Foundation (ASF) under one or more
 contributor license agreements. See the NOTICE file distributed with
 this work for additional information regarding copyright ownership.
 The ASF licenses this file to you under the Apache License, Version 2.0
 (the "License"); you may not use this file except in compliance with the
 License. You may obtain a copy of the License at
```

```
http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
```

```
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Martin Grotzke / Component(s): kryo-serializers 0.45

```
de.javakaffee/kryo-serializers 0.45

COPYRIGHT:
Copyright 2010 Martin Grotzke
Copyright 2015 Rennie Petersen

LICENSE: Apache 2.0


                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
```

```
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
```

```
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


-----------------
4P Dependencies:


com.esotericssoftware kryo 5.0.0-RC1
COPYRIGHT and LICENSE:

Copyright (c) 2008-2018, Nathan Sweet All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of Esoteric Software nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



---
com.esotericsoftware » reflectasm 1.11.7
COPYRIGHT and LICENSE:
Copyright (c) 2008, Nathan Sweet
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    * Neither the name of Esoteric Software nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



---
com.esotericsoftware » minlog 1.3.0
COPYRIGHT and LICENSE:
Copyright (c) 2008, Nathan Sweet
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    * Neither the name of Esoteric Software nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


---
org.objenesis » objenesis 2.6
COPYRIGHT: Copyright (c) 2003-2013, Objenesis Team and all contributors
LICENSE: Apache 2.0


                                Apache License
```

```
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: marvin + konsorten GmbH / Component(s): go-windows-terminal-sequences 1.0.2

```
(The MIT License)

Copyright (c) 2017 marvin + konsorten GmbH (open-source@konsorten.de)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the 'Software'), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Marvin Lobel / Component(s): rust-lazy-static 0.2.4

```
Currently, MIT, in the process of relicensing to Dual licensed under MIT/
APACHE:
Copyright (c) Marvin Löbel

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
```

```
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Mashape / Component(s): unirest-java 2.5.03

```
URL for Copyright Notice and License - https://github.com/Mashape/unirest-
java/blob/unirest-java-1.3.24/LICENSE

Copyright (c) 2013 Mashape (http://mashape.com)
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Matplotlib Development Team / Component(s): matplotlib 3.3.2

```
Matplotlib:3.3.2
Copyright (c) 2012- Matplotlib Development Team; All Rights Reserved

License agreement for matplotlib versions 1.3.0 and later
=========================================================

1. This LICENSE AGREEMENT is between the Matplotlib Development Team
("MDT"), and the Individual or Organization ("Licensee") accessing and
otherwise using matplotlib software in source or binary form and its
associated documentation.

2. Subject to the terms and conditions of this License Agreement, MDT
hereby grants Licensee a nonexclusive, royalty-free, world-wide license
to reproduce, analyze, test, perform and/or display publicly, prepare
derivative works, distribute, and otherwise use matplotlib
alone or in any derivative version, provided, however, that MDT's
License Agreement and MDT's notice of copyright, i.e., "Copyright (c)
2012- Matplotlib Development Team; All Rights Reserved" are retained in
matplotlib  alone or in any derivative version prepared by
Licensee.

3. In the event Licensee prepares a derivative work that is based on or
incorporates matplotlib or any part thereof, and wants to
make the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to matplotlib .

4. MDT is making matplotlib available to Licensee on an "AS
IS" basis.  MDT MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, MDT MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB
WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. MDT SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB
 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR
LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING
MATPLOTLIB , OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF
THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
```

```
7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between MDT and
Licensee.  This License Agreement does not grant permission to use MDT
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using matplotlib ,
Licensee agrees to be bound by the terms and conditions of this License
Agreement.

License agreement for matplotlib versions prior to 1.3.0
========================================================

1. This LICENSE AGREEMENT is between John D. Hunter ("JDH"), and the
Individual or Organization ("Licensee") accessing and otherwise using
matplotlib software in source or binary form and its associated
documentation.

2. Subject to the terms and conditions of this License Agreement, JDH
hereby grants Licensee a nonexclusive, royalty-free, world-wide license
to reproduce, analyze, test, perform and/or display publicly, prepare
derivative works, distribute, and otherwise use matplotlib
alone or in any derivative version, provided, however, that JDH's
License Agreement and JDH's notice of copyright, i.e., "Copyright (c)
2002-2011 John D. Hunter; All Rights Reserved" are retained in
matplotlib  alone or in any derivative version prepared by
Licensee.

3. In the event Licensee prepares a derivative work that is based on or
incorporates matplotlib  or any part thereof, and wants to
make the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to matplotlib.

4. JDH is making matplotlib  available to Licensee on an "AS
IS" basis.  JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB
WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB
 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR
LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING
MATPLOTLIB , OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF
THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between JDH and
Licensee.  This License Agreement does not grant permission to use JDH
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using matplotlib,
Licensee agrees to be bound by the terms and conditions of this License
Agreement.

+++++++++++++++
Dependency: AMSFONTS
```

```
Copyright (c) 1997, 2009, American Mathematical Society (http://
www.ams.org).

All Rights Reserved.

The cmr10.pfb file is a Type-1 version of one of Knuth's Computer Modern
 fonts.
It is included here as test data only, but the following license applies.

Copyright (c) 1997, 2009, American Mathematical Society (http://
www.ams.org).
All Rights Reserved.

"cmb10" is a Reserved Font Name for this Font Software.
"cmbsy10" is a Reserved Font Name for this Font Software.
"cmbsy5" is a Reserved Font Name for this Font Software.
"cmbsy6" is a Reserved Font Name for this Font Software.
"cmbsy7" is a Reserved Font Name for this Font Software.
"cmbsy8" is a Reserved Font Name for this Font Software.
"cmbsy9" is a Reserved Font Name for this Font Software.
"cmbx10" is a Reserved Font Name for this Font Software.
"cmbx12" is a Reserved Font Name for this Font Software.
"cmbx5" is a Reserved Font Name for this Font Software.
"cmbx6" is a Reserved Font Name for this Font Software.
"cmbx7" is a Reserved Font Name for this Font Software.
"cmbx8" is a Reserved Font Name for this Font Software.
"cmbx9" is a Reserved Font Name for this Font Software.
"cmbxsl10" is a Reserved Font Name for this Font Software.
"cmbxti10" is a Reserved Font Name for this Font Software.
"cmcsc10" is a Reserved Font Name for this Font Software.
"cmcsc8" is a Reserved Font Name for this Font Software.
"cmcsc9" is a Reserved Font Name for this Font Software.
"cmdunh10" is a Reserved Font Name for this Font Software.
"cmex10" is a Reserved Font Name for this Font Software.
"cmex7" is a Reserved Font Name for this Font Software.
"cmex8" is a Reserved Font Name for this Font Software.
"cmex9" is a Reserved Font Name for this Font Software.
"cmff10" is a Reserved Font Name for this Font Software.
"cmfi10" is a Reserved Font Name for this Font Software.
"cmfib8" is a Reserved Font Name for this Font Software.
"cminch" is a Reserved Font Name for this Font Software.
"cmitt10" is a Reserved Font Name for this Font Software.
"cmmi10" is a Reserved Font Name for this Font Software.
"cmmi12" is a Reserved Font Name for this Font Software.
"cmmi5" is a Reserved Font Name for this Font Software.
"cmmi6" is a Reserved Font Name for this Font Software.
"cmmi7" is a Reserved Font Name for this Font Software.
"cmmi8" is a Reserved Font Name for this Font Software.
"cmmi9" is a Reserved Font Name for this Font Software.
"cmmib10" is a Reserved Font Name for this Font Software.
"cmmib5" is a Reserved Font Name for this Font Software.
"cmmib6" is a Reserved Font Name for this Font Software.
"cmmib7" is a Reserved Font Name for this Font Software.
"cmmib8" is a Reserved Font Name for this Font Software.
"cmmib9" is a Reserved Font Name for this Font Software.
"cmr10" is a Reserved Font Name for this Font Software.
"cmr12" is a Reserved Font Name for this Font Software.
"cmr17" is a Reserved Font Name for this Font Software.
"cmr5" is a Reserved Font Name for this Font Software.
"cmr6" is a Reserved Font Name for this Font Software.
"cmr7" is a Reserved Font Name for this Font Software.
"cmr8" is a Reserved Font Name for this Font Software.
"cmr9" is a Reserved Font Name for this Font Software.
"cmsl10" is a Reserved Font Name for this Font Software.
```

```
"cmsl12" is a Reserved Font Name for this Font Software.
"cmsl8" is a Reserved Font Name for this Font Software.
"cmsl9" is a Reserved Font Name for this Font Software.
"cmsltt10" is a Reserved Font Name for this Font Software.
"cmss10" is a Reserved Font Name for this Font Software.
"cmss12" is a Reserved Font Name for this Font Software.
"cmss17" is a Reserved Font Name for this Font Software.
"cmss8" is a Reserved Font Name for this Font Software.
"cmss9" is a Reserved Font Name for this Font Software.
"cmssbx10" is a Reserved Font Name for this Font Software.
"cmssdc10" is a Reserved Font Name for this Font Software.
"cmssi10" is a Reserved Font Name for this Font Software.
"cmssi12" is a Reserved Font Name for this Font Software.
"cmssi17" is a Reserved Font Name for this Font Software.
"cmssi8" is a Reserved Font Name for this Font Software.
"cmssi9" is a Reserved Font Name for this Font Software.
"cmssq8" is a Reserved Font Name for this Font Software.
"cmssqi8" is a Reserved Font Name for this Font Software.
"cmsy10" is a Reserved Font Name for this Font Software.
"cmsy5" is a Reserved Font Name for this Font Software.
"cmsy6" is a Reserved Font Name for this Font Software.
"cmsy7" is a Reserved Font Name for this Font Software.
"cmsy8" is a Reserved Font Name for this Font Software.
"cmsy9" is a Reserved Font Name for this Font Software.
"cmtcsc10" is a Reserved Font Name for this Font Software.
"cmtex10" is a Reserved Font Name for this Font Software.
"cmtex8" is a Reserved Font Name for this Font Software.
"cmtex9" is a Reserved Font Name for this Font Software.
"cmti10" is a Reserved Font Name for this Font Software.
"cmti12" is a Reserved Font Name for this Font Software.
"cmti7" is a Reserved Font Name for this Font Software.
"cmti8" is a Reserved Font Name for this Font Software.
"cmti9" is a Reserved Font Name for this Font Software.
"cmtt10" is a Reserved Font Name for this Font Software.
"cmtt12" is a Reserved Font Name for this Font Software.
"cmtt8" is a Reserved Font Name for this Font Software.
"cmtt9" is a Reserved Font Name for this Font Software.
"cmu10" is a Reserved Font Name for this Font Software.
"cmvtt10" is a Reserved Font Name for this Font Software.
"euex10" is a Reserved Font Name for this Font Software.
"euex7" is a Reserved Font Name for this Font Software.
"euex8" is a Reserved Font Name for this Font Software.
"euex9" is a Reserved Font Name for this Font Software.
"eufb10" is a Reserved Font Name for this Font Software.
"eufb5" is a Reserved Font Name for this Font Software.
"eufb7" is a Reserved Font Name for this Font Software.
"eufm10" is a Reserved Font Name for this Font Software.
"eufm5" is a Reserved Font Name for this Font Software.
"eufm7" is a Reserved Font Name for this Font Software.
"eurb10" is a Reserved Font Name for this Font Software.
"eurb5" is a Reserved Font Name for this Font Software.
"eurb7" is a Reserved Font Name for this Font Software.
"eurm10" is a Reserved Font Name for this Font Software.
"eurm5" is a Reserved Font Name for this Font Software.
"eurm7" is a Reserved Font Name for this Font Software.
"eusb10" is a Reserved Font Name for this Font Software.
"eusb5" is a Reserved Font Name for this Font Software.
"eusb7" is a Reserved Font Name for this Font Software.
"eusm10" is a Reserved Font Name for this Font Software.
"eusm5" is a Reserved Font Name for this Font Software.
"eusm7" is a Reserved Font Name for this Font Software.
"lasy10" is a Reserved Font Name for this Font Software.
"lasy5" is a Reserved Font Name for this Font Software.
"lasy6" is a Reserved Font Name for this Font Software.
```

```
"lasy7" is a Reserved Font Name for this Font Software.
"lasy8" is a Reserved Font Name for this Font Software.
"lasy9" is a Reserved Font Name for this Font Software.
"lasyb10" is a Reserved Font Name for this Font Software.
"lcircle1" is a Reserved Font Name for this Font Software.
"lcirclew" is a Reserved Font Name for this Font Software.
"lcmss8" is a Reserved Font Name for this Font Software.
"lcmssb8" is a Reserved Font Name for this Font Software.
"lcmssi8" is a Reserved Font Name for this Font Software.
"line10" is a Reserved Font Name for this Font Software.
"linew10" is a Reserved Font Name for this Font Software.
"msam10" is a Reserved Font Name for this Font Software.
"msam5" is a Reserved Font Name for this Font Software.
"msam6" is a Reserved Font Name for this Font Software.
"msam7" is a Reserved Font Name for this Font Software.
"msam8" is a Reserved Font Name for this Font Software.
"msam9" is a Reserved Font Name for this Font Software.
"msbm10" is a Reserved Font Name for this Font Software.
"msbm5" is a Reserved Font Name for this Font Software.
"msbm6" is a Reserved Font Name for this Font Software.
"msbm7" is a Reserved Font Name for this Font Software.
"msbm8" is a Reserved Font Name for this Font Software.
"msbm9" is a Reserved Font Name for this Font Software.
"wncyb10" is a Reserved Font Name for this Font Software.
"wncyi10" is a Reserved Font Name for this Font Software.
"wncyr10" is a Reserved Font Name for this Font Software.
"wncysc10" is a Reserved Font Name for this Font Software.
"wncyss10" is a Reserved Font Name for this Font Software.

This Font Software is licensed under the SIL Open Font License, Version 1.1.
This license is copied below, and is also available with a FAQ at:
http://scripts.sil.org/OFL

-----------------------------------------------------------
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007
-----------------------------------------------------------

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide
development of collaborative font projects, to support the font creation
efforts of academic and linguistic communities, and to provide a free and
open framework in which fonts may be shared and improved in partnership
with others.

The OFL allows the licensed fonts to be used, studied, modified and
redistributed freely as long as they are not sold by themselves. The
fonts, including any derivative works, can be bundled, embedded,
redistributed and/or sold with any software provided that any reserved
names are not used by derivative works. The fonts and derivatives,
however, cannot be released under any other type of license. The
requirement for fonts to remain under this license does not apply
to any document created using the fonts or their derivatives.

DEFINITIONS
"Font Software" refers to the set of files released by the Copyright
Holder(s) under this license and clearly marked as such. This may
include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the
copyright statement(s).

"Original Version" refers to the collection of Font Software components as
distributed by the Copyright Holder(s).
```

```
"Modified Version" refers to any derivative made by adding to, deleting,
or substituting -- in part or in whole -- any of the components of the
Original Version, by changing formats or by porting the Font Software to a
new environment.

"Author" refers to any designer, engineer, programmer, technical
writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining
a copy of the Font Software, to use, study, copy, merge, embed, modify,
redistribute, and sell modified and unmodified copies of the Font
Software, subject to the following conditions:

1) Neither the Font Software nor any of its individual components,
in Original or Modified Versions, may be sold by itself.

2) Original or Modified Versions of the Font Software may be bundled,
redistributed and/or sold with any software, provided that each copy
contains the above copyright notice and this license. These can be
included either as stand-alone text files, human-readable headers or
in the appropriate machine-readable metadata fields within text or
binary files as long as those fields can be easily viewed by the user.

3) No Modified Version of the Font Software may use the Reserved Font
Name(s) unless explicit written permission is granted by the corresponding
Copyright Holder. This restriction only applies to the primary font name as
presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font
Software shall not be used to promote, endorse or advertise any
Modified Version, except to acknowledge the contribution(s) of the
Copyright Holder(s) and the Author(s) or with their explicit written
permission.

5) The Font Software, modified or unmodified, in part or in whole,
must be distributed entirely under this license, and must not be
distributed under any other license. The requirement for fonts to
remain under this license does not apply to any document created
using the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are
not met.

DISCLAIMER
THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE
COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL
DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM
OTHER DEALINGS IN THE FONT SOFTWARE.

+++++++++++++++
Dependency: BAKOMA Fonts
Copyright (C) 1994, 1995, Basil K. Malyshev. All Rights Reserved.

   BaKoMa Fonts Licence
   --------------------

  This licence covers two font packs (known as BaKoMa Fonts Colelction,
```

```
  which is available at `CTAN:fonts/cm/ps-type1/bakoma/'):

    1) BaKoMa-CM (1.1/12-Nov-94)
       Computer Modern Fonts in PostScript Type 1 and TrueType font formats.

    2) BaKoMa-AMS (1.2/19-Jan-95)
       AMS TeX fonts in PostScript Type 1 and TrueType font formats.

  Copyright (C) 1994, 1995, Basil K. Malyshev. All Rights Reserved.

  Permission to copy and distribute these fonts for any purpose is
  hereby granted without fee, provided that the above copyright notice,
  author statement and this permission notice appear in all copies of
  these fonts and related documentation.

  Permission to modify and distribute modified fonts for any purpose is
  hereby granted without fee, provided that the copyright notice,
  author statement, this permission notice and location of original
  fonts (http://www.ctan.org/tex-archive/fonts/cm/ps-type1/bakoma)
  appear in all copies of modified fonts and related documentation.

  Permission to use these fonts (embedding into PostScript, PDF, SVG
  and printing by using any software) is hereby granted without fee.
  It is not required to provide any notices about using these fonts.

 Basil K. Malyshev
 INSTITUTE FOR HIGH ENERGY PHYSICS
 IHEP, OMVT
 Moscow Region
 142281 PROTVINO
 RUSSIA

 E-Mail: bakoma@mail.ru
      or malyshev@mail.ihep.ru

++++++++++++++
Dependency: CARLOGO Font
Copyright (c) 2010-2013 by tyPoland Lukasz Dziedzic with Reserved Font Name
 "Carlito".


----> we renamed carlito -> carlogo to comply with the terms <----

This Font Software is licensed under the SIL Open Font License, Version 1.1.
This license is copied below, and is also available with a FAQ at: http://
scripts.sil.org/OFL


-----------------------------------------------------------
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007
-----------------------------------------------------------

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide
 development of
collaborative font projects, to support the font creation efforts of
 academic and
linguistic communities, and to provide a free and open framework in which
 fonts may
be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and
 redistributed
```

```
freely as long as they are not sold by themselves. The fonts, including any
 derivative
works, can be bundled, embedded, redistributed and/or sold with any software
 provided
that any reserved names are not used by derivative works. The fonts and
 derivatives,
however, cannot be released under any other type of license. The requirement
 for
fonts to remain under this license does not apply to any document created
 using the
fonts or their derivatives.

DEFINITIONS
"Font Software" refers to the set of files released by the Copyright
 Holder(s) under
this license and clearly marked as such. This may include source files,
 build scripts
and documentation.

"Reserved Font Name" refers to any names specified as such after the
 copyright statement(s).


"Original Version" refers to the collection of Font Software components as
 distributed
by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or
 substituting
-- in part or in whole -- any of the components of the Original Version, by
 changing
formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or
 other
person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining a copy
 of the
Font Software, to use, study, copy, merge, embed, modify, redistribute, and
 sell
modified and unmodified copies of the Font Software, subject to the
 following conditions:


1) Neither the Font Software nor any of its individual components, in
 Original or
Modified Versions, may be sold by itself.

2) Original or Modified Versions of the Font Software may be bundled,
 redistributed
and/or sold with any software, provided that each copy contains the above
 copyright
notice and this license. These can be included either as stand-alone text
 files,
human-readable headers or in the appropriate machine-readable metadata
 fields within
text or binary files as long as those fields can be easily viewed by the
 user.

3) No Modified Version of the Font Software may use the Reserved Font
 Name(s) unless
```

```
explicit written permission is granted by the corresponding Copyright
 Holder. This
restriction only applies to the primary font name as presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font
 Software shall
not be used to promote, endorse or advertise any Modified Version, except to
 acknowledge
the contribution(s) of the Copyright Holder(s) and the Author(s) or with
 their explicit
written permission.

5) The Font Software, modified or unmodified, in part or in whole, must be
 distributed
entirely under this license, and must not be distributed under any other
 license.
The requirement for fonts to remain under this license does not apply to any
 document
created using the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are not
 met.

DISCLAIMER
THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR IMPLIED,
INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT.
 IN NO
EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY,
INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL
 DAMAGES, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR
 INABILITY
TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

++++++++++++++++++++
Dependency: COLORBREWER Colormap
Copyright (c) 2002 Cynthia Brewer, Mark Harrower, and The Pennsylvania State
 University.

All rights reserved.

Apache-Style Software License for ColorBrewer Color Schemes

Version 1.1

Copyright (c) 2002 Cynthia Brewer, Mark Harrower, and The Pennsylvania
State University. All rights reserved. Redistribution and use in source
and binary forms, with or without modification, are permitted provided
that the following conditions are met:

1. Redistributions as source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. The end-user documentation included with the redistribution, if any,
must include the following acknowledgment: "This product includes color
specifications and designs developed by Cynthia Brewer
(http://colorbrewer.org/)." Alternately, this acknowledgment may appear in
the software itself, if and wherever such third-party acknowledgments
normally appear.
```

```
3. The name "ColorBrewer" must not be used to endorse or promote products
derived from this software without prior written permission. For written
permission, please contact Cynthia Brewer at cbrewer@psu.edu.

4. Products derived from this software may not be called "ColorBrewer",
nor may "ColorBrewer" appear in their name, without prior written
permission of Cynthia Brewer.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
CYNTHIA BREWER, MARK HARROWER, OR THE PENNSYLVANIA STATE UNIVERSITY BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

++++++++++++++++++++
Dependency: QT4_EDITOR

Copyright (c) 2009 Pierre Raybaut

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software,
 and to
permit persons to whom the Software is furnished to do so, subject to the
 following
conditions:
The above copyright notice and this permission notice shall be included in
 all copies
or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.

++++++++++++++++++
Dependency: STIX Font

Copyright (c) 2001-2005 by the STI Pub Companies, consisting of
the American Institute of Physics, the American Chemical Society, the
American Mathematical Society, the American Physical Society, Elsevier,
Inc., and The Institute of Electrical and Electronic Engineers, Inc.
Portions copyright (c) 1998-2003 by MicroPress, Inc. Portions copyright
(c) 1990 by Elsevier, Inc. All rights reserved. STIX Fonts-TM is a
trademark of The Institute of Electrical and Electronics Engineers, Inc.
```

```
TERMS AND CONDITIONS

   1. Permission is hereby granted, free of charge, to any person
obtaining a copy of the STIX Fonts-TM set accompanying this license
(collectively, the "Fonts") and the associated documentation files
(collectively with the Fonts, the "Font Software"), to reproduce and
distribute the Font Software, including the rights to use, copy, merge
and publish copies of the Font Software, and to permit persons to whom
the Font Software is furnished to do so same, subject to the following
terms and conditions (the "License").

   2. The following copyright and trademark notice and these Terms and
Conditions shall be included in all copies of one or more of the Font
typefaces and any derivative work created as permitted under this
License:

 Copyright (c) 2001-2005 by the STI Pub Companies, consisting of
the American Institute of Physics, the American Chemical Society, the
American Mathematical Society, the American Physical Society, Elsevier,
Inc., and The Institute of Electrical and Electronic Engineers, Inc.
Portions copyright (c) 1998-2003 by MicroPress, Inc. Portions copyright
(c) 1990 by Elsevier, Inc. All rights reserved. STIX Fonts-TM is a
trademark of The Institute of Electrical and Electronics Engineers, Inc.

   3. You may (a) convert the Fonts from one format to another (e.g.,
from TrueType to PostScript), in which case the normal and reasonable
distortion that occurs during such conversion shall be permitted and (b)
embed or include a subset of the Fonts in a document for the purposes of
allowing users to read text in the document that utilizes the Fonts. In
each case, you may use the STIX Fonts-TM mark to designate the resulting
Fonts or subset of the Fonts.

   4. You may also (a) add glyphs or characters to the Fonts, or modify
the shape of existing glyphs, so long as the base set of glyphs is not
removed and (b) delete glyphs or characters from the Fonts, provided
that the resulting font set is distributed with the following
disclaimer: "This [name] font does not include all the Unicode points
covered in the STIX Fonts-TM set but may include others." In each case,
the name used to denote the resulting font set shall not include the
term "STIX" or any similar term.

   5. You may charge a fee in connection with the distribution of the
Font Software, provided that no copy of one or more of the individual
Font typefaces that form the STIX Fonts-TM set may be sold by itself.

   6. THE FONT SOFTWARE IS PROVIDED "AS IS," WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF COPYRIGHT, PATENT, TRADEMARK OR OTHER RIGHT. IN NO EVENT SHALL
MICROPRESS OR ANY OF THE STI PUB COMPANIES BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, INCLUDING, BUT NOT LIMITED TO, ANY GENERAL,
SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM OR OUT OF THE USE OR
INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT
SOFTWARE.

   7. Except as contained in the notice set forth in Section 2, the
names MicroPress Inc. and STI Pub Companies, as well as the names of the
companies/organizations that compose the STI Pub Companies, shall not be
used in advertising or otherwise to promote the sale, use or other
dealings in the Font Software without the prior written consent of the
respective company or organization.

   8. This License shall become null and void in the event of any
```

```
material breach of the Terms and Conditions herein by licensee.

   9. A substantial portion of the STIX Fonts set was developed by
MicroPress Inc. for the STI Pub Companies. To obtain additional
mathematical fonts, please contact MicroPress, Inc., 68-30 Harrow
Street, Forest Hills, NY 11375, USA - Phone: (718) 575-1816.

++++++++++++++++++
Dependency: YORICK Colormap

Copyright (c) 1996.  The Regents of the University of California.
All rights reserved.

Permission to use, copy, modify, and distribute this software for any
purpose without fee is hereby granted, provided that this entire
notice is included in all copies of any software which is or includes
a copy or modification of this software and in all copies of the
supporting documentation for such software.

This work was produced at the University of California, Lawrence
Livermore National Laboratory under contract no. W-7405-ENG-48 between
the U.S. Department of Energy and The Regents of the University of
California for the operation of UC LLNL.

         DISCLAIMER

This software was prepared as an account of work sponsored by an
agency of the United States Government.  Neither the United States
Government nor the University of California nor any of their
employees, makes any warranty, express or implied, or assumes any
liability or responsibility for the accuracy, completeness, or
usefulness of any information, apparatus, product, or process
disclosed, or represents that its use would not infringe
privately-owned rights.  Reference herein to any specific commercial
products, process, or service by trade name, trademark, manufacturer,
or otherwise, does not necessarily constitute or imply its
endorsement, recommendation, or favoring by the United States
Government or the University of California.  The views and opinions of
authors expressed herein do not necessarily state or reflect those of
the United States Government or the University of California, and
shall not be used for advertising or product endorsement purposes.

    AUTHOR

David H. Munro wrote Yorick and Gist.  Berkeley Yacc (byacc) generated
the Yorick parser.  The routines in Math are from LAPACK and FFTPACK;
MathC contains C translations by David H. Munro.  The algorithms for
Yorick's random number generator and several special functions in
Yorick/include were taken from Numerical Recipes by Press, et. al.,
although the Yorick implementations are unrelated to those in
Numerical Recipes.  A small amount of code in Gist was adapted from
the X11R4 release, copyright M.I.T. -- the complete copyright notice
may be found in the (unused) file Gist/host.c.

++++++++++++++++
Dependency: SOLARIZED Color palette

Copyright (c) 2011 Ethan Schoonover
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify,
```

```
merge, publish, distribute, sublicense, and/or sell copies of the Software,
 and to
permit persons to whom the Software is furnished to do so, subject to the
 following
conditions:
The above copyright notice and this permission notice shall be included in
 all copies
or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.

++++++++++++++++
Dependency: Numpy:1.18.2

Copyright (c) 2005-2019, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

++++++++++++++++++
Dependency: Pyparsing:2.4.7
Copyright (c) 2003-2020  Paul T. McGuire

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify,
```

```
merge, publish, distribute, sublicense, and/or sell copies of the Software,
 and to
permit persons to whom the Software is furnished to do so, subject to the
 following
conditions:

The above copyright notice and this permission notice shall be included in
 all copies
or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.

++++++++++++++++
Dependency: Kiwisolver:1.2.0

==========================
 The Kiwi licensing terms
==========================
Kiwi is licensed under the terms of the Modified BSD License (also known as
New or Revised BSD), as follows:

Copyright (c) 2013, Nucleic Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
other materials provided with the distribution.

Neither the name of the Nucleic Development Team nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
About Kiwi
----------
Chris Colbert began the Kiwi project in December 2013 in an effort to
create a blisteringly fast UI constraint solver. Chris is still the
project lead.

The Nucleic Development Team is the set of all contributors to the Nucleic
project and its subprojects.

The core team that coordinates development on GitHub can be found here:
http://github.com/nucleic. The current team consists of:

* Chris Colbert

Our Copyright Policy
--------------------
Nucleic uses a shared copyright model. Each contributor maintains copyright
over their contributions to Nucleic. But, it is important to note that these
contributions are typically only changes to the repositories. Thus, the
 Nucleic
source code, in its entirety is not the copyright of any single person or
institution. Instead, it is the collective copyright of the entire Nucleic
Development Team. If individual contributors want to maintain a record of
 what
changes/contributions they have specific copyright on, they should indicate
their copyright in the commit message of the change, when they commit the
change to one of the Nucleic repositories.

With this in mind, the following banner should be used in any source code
 file
to indicate the copyright and license terms:

#------------------------------------------------------------------------------
# Copyright (c) 2013, Nucleic Development Team.
#
# Distributed under the terms of the Modified BSD License.
#
# The full license is in the file LICENSE, distributed with this software.
#------------------------------------------------------------------------------

++++++++++++++++++++
Dependency: Python-dateutil:2.8.1

Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
```

```
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.


++++++++++++++++++++
Dependency: Cycler:0.10.0
Copyright (c) 2015, matplotlib project
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the matplotlib project nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
```

```
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

+++++++++++++++++
Dependency: Six:1.15.0
Copyright (c) 2010-2020 Benjamin PetersonLicense: MIT license

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software,
 and to
permit persons to whom the Software is furnished to do so, subject to the
 following
conditions:

The above copyright notice and this permission notice shall be included in
 all copies
or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.

+++++++
Dependency: Certifi:2020.6.20

This packge contains a modified version of ca-bundle.crt:
ca-bundle.crt -- Bundle of CA Root Certificates
Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#

It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#
***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.
***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $
```

```
Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor” means each individual or legal entity that creates,
 contributes
to the creation of, or owns Covered Software.
1.2. “Contributor Version” means the combination of the Contributions of
 others (if
any) used by a Contributor and that particular Contributor’s Contribution.
1.3. “Contribution” means Covered Software of a particular Contributor.
1.4. “Covered Software” means Source Code Form to which the initial
 Contributor has
attached the notice in Exhibit A, the Executable Form of such Source Code
 Form, and
Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses” means that the initial
 Contributor has
attached the notice described in Exhibit B to the Covered Software; or that
 the Covered
Software was made available under the terms of version 1.1 or earlier of the
 License,
but not also under the terms of a Secondary License.
1.6. “Executable Form” means any form of the work other than Source Code
 Form.
1.7. “Larger Work” means a work that combines Covered Software with other
 material,
in a separate file or files, that is not Covered Software.
1.8. “License” means this document.
1.9. “Licensable” means having the right to grant, to the maximum extent
 possible,
whether at the time of the initial grant or subsequently, any and all of the
 rights
conveyed by this License.
1.10. “Modifications” means any of the following: any file in Source Code
 Form that
results from an addition to, deletion from, or modification of the contents
 of Covered
Software; or any new file in Source Code Form that contains any Covered
 Software.

1.11. “Patent Claims” of a Contributor means any patent claim(s), including
 without
limitation, method, process, and apparatus claims, in any patent Licensable
 by such
Contributor that would be infringed, but for the grant of the License, by
 the making,
using, selling, offering for sale, having made, import, or transfer of
 either its
Contributions or its Contributor Version.
1.12. “Secondary License” means either the GNU General Public License,
 Version 2.0,
the GNU Lesser General Public License, Version 2.1, the GNU Affero General
 Public
License, Version 3.0, or any later versions of those licenses.
1.13. “Source Code Form” means the form of the work preferred for making
 modifications.

1.14. “You” (or “Your”) means an individual or a legal entity exercising
 rights under
this License. For legal entities, “You” includes any entity that controls,
 is controlled
```

```
by, or is under common control with You. For purposes of this definition,
 “control”
means (a) the power, direct or indirect, to cause the direction or
 management of
such entity, whether by contract or otherwise, or (b) ownership of more than
 fifty
percent (50%) of the outstanding shares or beneficial ownership of such
 entity.
2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:
under intellectual property rights (other than patent or trademark)
 Licensable by
such Contributor to use, reproduce, make available, modify, display,
 perform, distribute,
and otherwise exploit its Contributions, either on an unmodified basis, with
 Modifications,
or as part of a Larger Work; and under Patent Claims of such Contributor to
 make,
use, sell, offer for sale, have made, import, and otherwise transfer either
 its Contributions
or its Contributor Version.
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution become
 effective
for each Contribution on the date the Contributor first distributes such
 Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License.
No additional rights or licenses will be implied from the distribution or
 licensing
of Covered Software under this License. Notwithstanding Section 2.1(b)
 above, no
patent license is granted by a Contributor: for any code that a Contributor
 has removed
from Covered Software; or for infringements caused by: (i) Your and any
 other third
party’s modifications of Covered Software, or (ii) the combination of its
 Contributions
with other software (except as part of its Contributor Version); or under
 Patent
Claims infringed by Covered Software in the absence of its Contributions.
This License does not grant any rights in the trademarks, service marks, or
 logos
of any Contributor (except as may be necessary to comply with the notice
 requirements
in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the
Covered Software under a subsequent version of this License (see Section
 10.2) or
under the terms of a Secondary License (if permitted under the terms of
 Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its
original creation(s) or it has sufficient rights to grant the rights to its
 Contributions
conveyed by this License.
```

```
2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright
doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section
2.1.
3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications
that You create or to which You contribute, must be under the terms of this
 License.
You must inform recipients that the Source Code Form of the Covered Software
 is governed
by the terms of this License, and how they can obtain a copy of this
 License. You
may not attempt to alter or restrict the recipients' rights in the Source
 Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
such Covered Software must also be made available in Source Code Form, as
 described
in Section 3.1, and You must inform recipients of the Executable Form how
 they can
obtain a copy of such Source Code Form by reasonable means in a timely
 manner, at
a charge no more than the cost of distribution to the recipient; and
You may distribute such Executable Form under the terms of this License, or
 sublicense
it under different terms, provided that the license for the Executable Form
 does
not attempt to limit or alter the recipients' rights in the Source Code Form
 under
this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided
that You also comply with the requirements of this License for the Covered
 Software.
If the Larger Work is a combination of Covered Software with a work governed
 by one
or more Secondary Licenses, and the Covered Software is not Incompatible
 With Secondary
Licenses, this License permits You to additionally distribute such Covered
 Software
under the terms of such Secondary License(s), so that the recipient of the
 Larger
Work may, at their option, further distribute the Covered Software under the
 terms
of either this License or such Secondary License(s).
3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright
notices, patent notices, disclaimers of warranty, or limitations of
 liability) contained
within the Source Code Form of the Covered Software, except that You may
 alter any
license notices to the extent required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or
```

```
liability obligations to one or more recipients of Covered Software.
 However, You
may do so only on Your own behalf, and not on behalf of any Contributor. You
 must
make it absolutely clear that any such warranty, support, indemnity, or
 liability
obligation is offered by You alone, and You hereby agree to indemnify every
 Contributor
for any liability incurred by such Contributor as a result of warranty,
 support,
indemnity or liability terms You offer. You may include additional
 disclaimers of
warranty and limitations of liability specific to any jurisdiction.
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with
respect to some or all of the Covered Software due to statute, judicial
 order, or
regulation then You must: (a) comply with the terms of this License to the
 maximum
extent possible; and (b) describe the limitations and the code they affect.
 Such
description must be placed in a text file included with all distributions of
 the
Covered Software under this License. Except to the extent prohibited by
 statute or
regulation, such description must be sufficiently detailed for a recipient
 of ordinary
skill to be able to understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail
to comply with any of its terms. However, if You become compliant, then the
 rights
granted under this License from a particular Contributor are reinstated (a)
 provisionally,
unless and until such Contributor explicitly and finally terminates Your
 grants,
and (b) on an ongoing basis, if such Contributor fails to notify You of the
 non-compliance
by some reasonable means prior to 60 days after You have come back into
 compliance.
Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing
basis if such Contributor notifies You of the non-compliance by some
 reasonable means,
this is the first time You have received notice of non-compliance with this
 License
from such Contributor, and You become compliant prior to 30 days after Your
 receipt
of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
 infringement
claim (excluding declaratory judgment actions, counter-claims, and cross-
claims)
alleging that a Contributor Version directly or indirectly infringes any
 patent,
then the rights granted to You by any and all Contributors for the Covered
 Software
under Section 2.1 of this License shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license
agreements (excluding distributors and resellers) which have been validly
 granted
```

```
by You or Your distributors under this License prior to termination shall
 survive
termination.
6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty
of any kind, either expressed, implied, or statutory, including, without
 limitation,
warranties that the Covered Software is free of defects, merchantable, fit
 for a
particular purpose or non-infringing. The entire risk as to the quality and
 performance
of the Covered Software is with You. Should any Covered Software prove
 defective
in any respect, You (not any Contributor) assume the cost of any necessary
 servicing,
repair, or correction. This disclaimer of warranty constitutes an essential
 part
of this License. No use of any Covered Software is authorized under this
 License
except under this disclaimer.
7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence),
contract, or otherwise, shall any Contributor, or anyone who distributes
 Covered
Software as permitted above, be liable to You for any direct, indirect,
 special,
incidental, or consequential damages of any character including, without
 limitation,
damages for lost profits, loss of goodwill, work stoppage, computer failure
 or malfunction,
or any and all other commercial damages or losses, even if such party shall
 have
been informed of the possibility of such damages. This limitation of
 liability shall
not apply to liability for death or personal injury resulting from such
 party’s negligence
to the extent applicable law prohibits such limitation. Some jurisdictions
 do not
allow the exclusion or limitation of incidental or consequential damages, so
 this
exclusion and limitation may not apply to You.
8. Litigation
Any litigation relating to this License may be brought only in the courts of
 a jurisdiction
where the defendant maintains its principal place of business and such
 litigation
shall be governed by laws of that jurisdiction, without reference to its
 conflict-of-law
provisions. Nothing in this Section shall prevent a party’s ability to bring
 cross-claims
or counter-claims.
9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof.
If any provision of this License is held to be unenforceable, such provision
 shall
be reformed only to the extent necessary to make it enforceable. Any law or
 regulation
which provides that the language of a contract shall be construed against
 the drafter
shall not be used to construe this License against a Contributor.
10. Versions of the License
```

```
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no
one other than the license steward has the right to modify or publish new
 versions
of this License. Each version will be given a distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License
under which You originally received the Covered Software, or under the terms
 of any
subsequent version published by the license steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new
license for such software, you may create and use a modified version of this
 License
if you rename the license and remove any references to the name of the
 license steward
(except to note that such modified license differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses

If You choose to distribute Source Code Form that is Incompatible With
 Secondary
Licenses under the terms of this version of the License, the notice
 described in
Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0.
If a copy of the MPL was not distributed with this file, You can obtain one
 at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You
may include the notice in a location (such as a LICENSE file in a relevant
 directory)
where a recipient would be likely to look for such a notice.
You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by the
Mozilla Public License, v. 2.0.

Dependency: Pillow:7.2.0
The Python Imaging Library (PIL) is

    Copyright © 1997-2011 by Secret Labs AB
    Copyright © 1995-2011 by Fredrik Lundh

Pillow is the friendly PIL fork. It is

    Copyright © 2010-2020 by Alex Clark and contributors

Like PIL, Pillow is licensed under the open source PIL Software License:

By obtaining, using, and/or copying this software and/or its associated
documentation, you agree that you have read, understood, and will comply
with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its
```

```
associated documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appears in all copies, and that
both that copyright notice and this permission notice appear in supporting
documentation, and that the name of Secret Labs AB or the author not be
used in advertising or publicity pertaining to distribution of the software
without specific, written prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.
IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
```

Provider: Matthew Bartos and Abhiram Mullapudi and Sara Troutman / Component(s): rrcf 0.4.4

```
------------------------------- Top-level license -------------------------
rrcf

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------------------------- Copyright notices -------------------------
. Copyright (c) 2018 kLabUM



---------------------------- Fourth-party information ----------------------

numpy

License
BSD license.

Copyright Notices
Copyright (c) 2005-2024, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Matthew Newville / Component(s): asteval 0.9.28

```
------------------------------- Top-level license --------------------------
The MIT License

Copyright (c) 2021 Matthew Newville, The University of Chicago

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------------------------- Copyright notices --------------------------
Copyright (c) 2021 Matthew Newville, The University of Chicago
```

Provider: Mattjis Perdeck / Component(s): jsnlog 2.30.0

```
Copyright 2012-2015 Mattijs Perdeck

This project is licensed under the MIT license.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Max Persson / Component(s): FSM for Go 0.3.0

```
github.com/looplab/fsm
-------- Copyrights
Copyright (c) 2013 - Max Persson <max@looplab.se>

-------- License
SPDX:Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
```

```
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
```

```
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: 0215e84bcaced8f7ffafafe9e17cf3b8
```

Provider: Meta Platforms, Inc. / Component(s): Meta-Llama-3-70B-Instruct 359ec69

```
META LLAMA 3 COMMUNITY LICENSE AGREEMENT
Meta Llama 3 Version Release Date: April 18, 2024

"Agreement" means the terms and conditions for use, reproduction,
 distribution and modification of the
Llama Materials set forth herein.

"Documentation" means the specifications, manuals and documentation
 accompanying Meta Llama 3
distributed by Meta at https://llama.meta.com/get-started/.

"Licensee" or "you" means you, or your employer or any other person or
 entity (if you are entering into
this Agreement on such person or entity’s behalf), of the age required under
 applicable laws, rules or
regulations to provide legal consent and that has legal authority to bind
 your employer or such other
person or entity if you are entering in this Agreement on their behalf.

"Meta Llama 3" means the foundational large language models and software and
 algorithms, including
machine-learning model code, trained model weights, inference-enabling code,
 training-enabling code,
fine-tuning enabling code and other elements of the foregoing distributed by
 Meta at
https://llama.meta.com/llama-downloads.

"Llama Materials" means, collectively, Meta’s proprietary Meta Llama 3 and
 Documentation (and any
portion thereof) made available under this Agreement.

"Meta" or "we" means Meta Platforms Ireland Limited (if you are located in
 or, if you are an entity, your
principal place of business is in the EEA or Switzerland) and Meta
 Platforms, Inc. (if you are located
outside of the EEA or Switzerland).
```

```
By clicking "I Accept" below or by using or distributing any portion or
 element of the Llama Materials,
you agree to be bound by this Agreement.

1. License Rights and Redistribution.

  a. Grant of Rights. You are granted a non-exclusive, worldwide, non-
transferable and royalty-free
limited license under Meta’s intellectual property or other rights owned by
 Meta embodied in the Llama
Materials to use, reproduce, distribute, copy, create derivative works of,
 and make modifications to the
Llama Materials.

  b. Redistribution and Use.

      i. If you distribute or make available the Llama Materials (or any
 derivative works
thereof), or a product or service that uses any of them, including another
 AI model, you shall (A) provide
a copy of this Agreement with any such Llama Materials; and (B) prominently
 display "Built with Meta
Llama 3" on a related website, user interface, blogpost, about page, or
 product documentation. If you
use the Llama Materials to create, train, fine tune, or otherwise improve an
 AI model, which is
distributed or made available, you shall also include "Llama 3" at the
 beginning of any such AI model
name.

      ii. If you receive Llama Materials, or any derivative works thereof,
 from a Licensee as part
of an integrated end user product, then Section 2 of this Agreement will not
 apply to you.

      iii. You must retain in all copies of the Llama Materials that you
 distribute the following
attribution notice within a "Notice" text file distributed as a part of such
 copies: "Meta Llama 3 is
licensed under the Meta Llama 3 Community License, Copyright © Meta
 Platforms, Inc. All Rights
Reserved."

      iv. Your use of the Llama Materials must comply with applicable laws
 and regulations
(including trade compliance laws and regulations) and adhere to the
 Acceptable Use Policy for the Llama
Materials (available at https://llama.meta.com/llama3/use-policy), which is
 hereby incorporated by
reference into this Agreement.

      v. You will not use the Llama Materials or any output or results of
 the Llama Materials to
improve any other large language model (excluding Meta Llama 3 or derivative
 works thereof).

2. Additional Commercial Terms. If, on the Meta Llama 3 version release
 date, the monthly active users
of the products or services made available by or for Licensee, or Licensee’s
 affiliates, is greater than 700
million monthly active users in the preceding calendar month, you must
 request a license from Meta,
```

```
which Meta may grant to you in its sole discretion, and you are not
 authorized to exercise any of the
rights under this Agreement unless or until Meta otherwise expressly grants
 you such rights.

3. Disclaimer of Warranty. UNLESS REQUIRED BY APPLICABLE LAW, THE LLAMA
 MATERIALS AND ANY
OUTPUT AND RESULTS THEREFROM ARE PROVIDED ON AN "AS IS" BASIS, WITHOUT
 WARRANTIES OF
ANY KIND, AND META DISCLAIMS ALL WARRANTIES OF ANY KIND, BOTH EXPRESS AND
 IMPLIED,
INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF TITLE, NON-INFRINGEMENT,
MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. YOU ARE SOLELY
 RESPONSIBLE FOR
DETERMINING THE APPROPRIATENESS OF USING OR REDISTRIBUTING THE LLAMA
 MATERIALS AND
ASSUME ANY RISKS ASSOCIATED WITH YOUR USE OF THE LLAMA MATERIALS AND ANY
 OUTPUT AND
RESULTS.

4. Limitation of Liability. IN NO EVENT WILL META OR ITS AFFILIATES BE
 LIABLE UNDER ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, PRODUCTS LIABILITY, OR
 OTHERWISE, ARISING
OUT OF THIS AGREEMENT, FOR ANY LOST PROFITS OR ANY INDIRECT, SPECIAL,
 CONSEQUENTIAL,
INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES, EVEN IF META OR ITS AFFILIATES
 HAVE BEEN ADVISED
OF THE POSSIBILITY OF ANY OF THE FOREGOING.

5. Intellectual Property.

  a. No trademark licenses are granted under this Agreement, and in
 connection with the Llama
Materials, neither Meta nor Licensee may use any name or mark owned by or
 associated with the other
or any of its affiliates, except as required for reasonable and customary
 use in describing and
redistributing the Llama Materials or as set forth in this Section 5(a).
 Meta hereby grants you a license to
use "Llama 3" (the "Mark") solely as required to comply with the last
 sentence of Section 1.b.i. You will
comply with Meta’s brand guidelines (currently accessible at
https://about.meta.com/brand/resources/meta/company-brand/ ). All goodwill
 arising out of your use
of the Mark will inure to the benefit of Meta.

  b. Subject to Meta’s ownership of Llama Materials and derivatives made by
 or for Meta, with
respect to any derivative works and modifications of the Llama Materials
 that are made by you, as
between you and Meta, you are and will be the owner of such derivative works
 and modifications.

  c. If you institute litigation or other proceedings against Meta or any
 entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Llama Materials
 or Meta Llama 3 outputs or
results, or any portion of any of the foregoing, constitutes infringement of
 intellectual property or other
rights owned or licensable by you, then any licenses granted to you under
 this Agreement shall
terminate as of the date such litigation or claim is filed or instituted.
 You will indemnify and hold
```

```
harmless Meta from and against any claim by any third party arising out of
 or related to your use or
distribution of the Llama Materials.

6. Term and Termination. The term of this Agreement will commence upon your
 acceptance of this
Agreement or access to the Llama Materials and will continue in full force
 and effect until terminated in
accordance with the terms and conditions herein. Meta may terminate this
 Agreement if you are in
breach of any term or condition of this Agreement. Upon termination of this
 Agreement, you shall delete
and cease use of the Llama Materials. Sections 3, 4 and 7 shall survive the
 termination of this
Agreement.

7. Governing Law and Jurisdiction. This Agreement will be governed and
 construed under the laws of
the State of California without regard to choice of law principles, and the
 UN Convention on Contracts
for the International Sale of Goods does not apply to this Agreement. The
 courts of California shall have
exclusive jurisdiction of any dispute arising out of this Agreement.

Meta Llama 3 Acceptable Use Policy
Meta is committed to promoting safe and fair use of its tools and features,
 including Meta Llama 3. If you access or use Meta Llama 3, you agree to
 this Acceptable Use Policy ("Policy"). The most recent copy of this policy
 can be found at https://llama.meta.com/llama3/use-policy
Prohibited Uses
We want everyone to use Meta Llama 3 safely and responsibly. You agree you
 will not use, or allow others to use, Meta Llama 3 to: 1. Violate the law
 or others' rights, including to:
1. Engage in, promote, generate, contribute to, encourage, plan, incite, or
 further illegal or unlawful activity or content, such as:
1. Violence or terrorism
2. Exploitation or harm to children, including the solicitation, creation,
 acquisition, or dissemination of child exploitative content or failure to
 report Child Sexual Abuse Material
3. Human trafficking, exploitation, and sexual violence
4. The illegal distribution of information or materials to minors, including
 obscene materials, or failure to employ legally required age-gating in
 connection with such information or materials.
5. Sexual solicitation
6. Any other criminal activity
2. Engage in, promote, incite, or facilitate the harassment, abuse,
 threatening, or bullying of individuals or groups of individuals
3. Engage in, promote, incite, or facilitate discrimination or other
 unlawful or harmful conduct in the provision of employment, employment
 benefits, credit, housing, other economic benefits, or other essential
 goods and services
4. Engage in the unauthorized or unlicensed practice of any profession
 including, but not limited to, financial, legal, medical/health, or related
 professional practices
5. Collect, process, disclose, generate, or infer health, demographic, or
 other sensitive personal or private information about individuals without
 rights and consents required by applicable laws
6. Engage in or facilitate any action or generate any content that
 infringes, misappropriates, or otherwise violates any third-party rights,
 including the outputs or results of any products or services using the
 Llama Materials
7. Create, generate, or facilitate the creation of malicious code, malware,
 computer viruses or do anything else that could disable, overburden,
```

```
 interfere with or impair the proper working, integrity, operation or
 appearance of a website or computer system
2. Engage in, promote, incite, facilitate, or assist in the planning or
 development of activities that present a risk of death or bodily harm to
 individuals, including use of Meta Llama 3 related to the following:
1. Military, warfare, nuclear industries or applications, espionage, use for
 materials or activities that are subject to the International Traffic Arms
 Regulations (ITAR) maintained by the United States Department of State
2. Guns and illegal weapons (including weapon development)
3. Illegal drugs and regulated/controlled substances
4. Operation of critical infrastructure, transportation technologies, or
 heavy machinery
5. Self-harm or harm to others, including suicide, cutting, and eating
 disorders
6. Any content intended to incite or promote violence, abuse, or any
 infliction of bodily harm to an individual
3. Intentionally deceive or mislead others, including use of Meta Llama 3
 related to the following:
1. Generating, promoting, or furthering fraud or the creation or promotion
 of disinformation
2. Generating, promoting, or furthering defamatory content, including the
 creation of defamatory statements, images, or other content
3. Generating, promoting, or further distributing spam
4. Impersonating another individual without consent, authorization, or legal
 right
5. Representing that the use of Meta Llama 3 or outputs are human-generated
6. Generating or facilitating false online engagement, including fake
 reviews and other means of fake online engagement
4. Fail to appropriately disclose to end users any known dangers of your AI
 system
Please report any violation of this Policy, software "bug," or other
 problems that could lead to a violation of this Policy through one of the
 following means:
* Reporting issues with the model: https://github.com/meta-llama/llama3
* Reporting risky content generated by the model:
developers.facebook.com/llama_output_feedback
* Reporting bugs and security concerns: facebook.com/whitehat/info
* Reporting violations of the Acceptable Use Policy or unlicensed uses of
 Meta Llama 3: LlamaUseReport@meta.com
```

Provider: Meta Platforms, Inc. / Component(s): Meta-Llama-3-8B-Instruct c4a5432

```
META LLAMA 3 COMMUNITY LICENSE AGREEMENT
Meta Llama 3 Version Release Date: April 18, 2024

"Agreement" means the terms and conditions for use, reproduction,
 distribution and modification of the
Llama Materials set forth herein.

"Documentation" means the specifications, manuals and documentation
 accompanying Meta Llama 3
distributed by Meta at https://llama.meta.com/get-started/.

"Licensee" or "you" means you, or your employer or any other person or
 entity (if you are entering into
this Agreement on such person or entity’s behalf), of the age required under
 applicable laws, rules or
regulations to provide legal consent and that has legal authority to bind
 your employer or such other
person or entity if you are entering in this Agreement on their behalf.
```

```
"Meta Llama 3" means the foundational large language models and software and
 algorithms, including
machine-learning model code, trained model weights, inference-enabling code,
 training-enabling code,
fine-tuning enabling code and other elements of the foregoing distributed by
 Meta at
https://llama.meta.com/llama-downloads.

"Llama Materials" means, collectively, Meta’s proprietary Meta Llama 3 and
 Documentation (and any
portion thereof) made available under this Agreement.

"Meta" or "we" means Meta Platforms Ireland Limited (if you are located in
 or, if you are an entity, your
principal place of business is in the EEA or Switzerland) and Meta
 Platforms, Inc. (if you are located
outside of the EEA or Switzerland).

By clicking "I Accept" below or by using or distributing any portion or
 element of the Llama Materials,
you agree to be bound by this Agreement.

1. License Rights and Redistribution.

  a. Grant of Rights. You are granted a non-exclusive, worldwide, non-
transferable and royalty-free
limited license under Meta’s intellectual property or other rights owned by
 Meta embodied in the Llama
Materials to use, reproduce, distribute, copy, create derivative works of,
 and make modifications to the
Llama Materials.

  b. Redistribution and Use.

      i. If you distribute or make available the Llama Materials (or any
 derivative works
thereof), or a product or service that uses any of them, including another
 AI model, you shall (A) provide
a copy of this Agreement with any such Llama Materials; and (B) prominently
 display "Built with Meta
Llama 3" on a related website, user interface, blogpost, about page, or
 product documentation. If you
use the Llama Materials to create, train, fine tune, or otherwise improve an
 AI model, which is
distributed or made available, you shall also include "Llama 3" at the
 beginning of any such AI model
name.

      ii. If you receive Llama Materials, or any derivative works thereof,
 from a Licensee as part
of an integrated end user product, then Section 2 of this Agreement will not
 apply to you.

      iii. You must retain in all copies of the Llama Materials that you
 distribute the following
attribution notice within a "Notice" text file distributed as a part of such
 copies: "Meta Llama 3 is
licensed under the Meta Llama 3 Community License, Copyright © Meta
 Platforms, Inc. All Rights
Reserved."

      iv. Your use of the Llama Materials must comply with applicable laws
 and regulations
```

```
(including trade compliance laws and regulations) and adhere to the
 Acceptable Use Policy for the Llama
Materials (available at https://llama.meta.com/llama3/use-policy), which is
 hereby incorporated by
reference into this Agreement.

      v. You will not use the Llama Materials or any output or results of
 the Llama Materials to
improve any other large language model (excluding Meta Llama 3 or derivative
 works thereof).

2. Additional Commercial Terms. If, on the Meta Llama 3 version release
 date, the monthly active users
of the products or services made available by or for Licensee, or Licensee's
 affiliates, is greater than 700
million monthly active users in the preceding calendar month, you must
 request a license from Meta,
which Meta may grant to you in its sole discretion, and you are not
 authorized to exercise any of the
rights under this Agreement unless or until Meta otherwise expressly grants
 you such rights.

3. Disclaimer of Warranty. UNLESS REQUIRED BY APPLICABLE LAW, THE LLAMA
 MATERIALS AND ANY
OUTPUT AND RESULTS THEREFROM ARE PROVIDED ON AN "AS IS" BASIS, WITHOUT
 WARRANTIES OF
ANY KIND, AND META DISCLAIMS ALL WARRANTIES OF ANY KIND, BOTH EXPRESS AND
 IMPLIED,
INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF TITLE, NON-INFRINGEMENT,
MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. YOU ARE SOLELY
 RESPONSIBLE FOR
DETERMINING THE APPROPRIATENESS OF USING OR REDISTRIBUTING THE LLAMA
 MATERIALS AND
ASSUME ANY RISKS ASSOCIATED WITH YOUR USE OF THE LLAMA MATERIALS AND ANY
 OUTPUT AND
RESULTS.

4. Limitation of Liability. IN NO EVENT WILL META OR ITS AFFILIATES BE
 LIABLE UNDER ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, PRODUCTS LIABILITY, OR
 OTHERWISE, ARISING
OUT OF THIS AGREEMENT, FOR ANY LOST PROFITS OR ANY INDIRECT, SPECIAL,
 CONSEQUENTIAL,
INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES, EVEN IF META OR ITS AFFILIATES
 HAVE BEEN ADVISED
OF THE POSSIBILITY OF ANY OF THE FOREGOING.

5. Intellectual Property.

  a. No trademark licenses are granted under this Agreement, and in
 connection with the Llama
Materials, neither Meta nor Licensee may use any name or mark owned by or
 associated with the other
or any of its affiliates, except as required for reasonable and customary
 use in describing and
redistributing the Llama Materials or as set forth in this Section 5(a).
 Meta hereby grants you a license to
use "Llama 3" (the "Mark") solely as required to comply with the last
 sentence of Section 1.b.i. You will
comply with Meta's brand guidelines (currently accessible at
https://about.meta.com/brand/resources/meta/company-brand/ ). All goodwill
 arising out of your use
of the Mark will inure to the benefit of Meta.
```

```
  b. Subject to Meta’s ownership of Llama Materials and derivatives made by
 or for Meta, with
respect to any derivative works and modifications of the Llama Materials
 that are made by you, as
between you and Meta, you are and will be the owner of such derivative works
 and modifications.

  c. If you institute litigation or other proceedings against Meta or any
 entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Llama Materials
 or Meta Llama 3 outputs or
results, or any portion of any of the foregoing, constitutes infringement of
 intellectual property or other
rights owned or licensable by you, then any licenses granted to you under
 this Agreement shall
terminate as of the date such litigation or claim is filed or instituted.
 You will indemnify and hold
harmless Meta from and against any claim by any third party arising out of
 or related to your use or
distribution of the Llama Materials.

6. Term and Termination. The term of this Agreement will commence upon your
 acceptance of this
Agreement or access to the Llama Materials and will continue in full force
 and effect until terminated in
accordance with the terms and conditions herein. Meta may terminate this
 Agreement if you are in
breach of any term or condition of this Agreement. Upon termination of this
 Agreement, you shall delete
and cease use of the Llama Materials. Sections 3, 4 and 7 shall survive the
 termination of this
Agreement.

7. Governing Law and Jurisdiction. This Agreement will be governed and
 construed under the laws of
the State of California without regard to choice of law principles, and the
 UN Convention on Contracts
for the International Sale of Goods does not apply to this Agreement. The
 courts of California shall have
exclusive jurisdiction of any dispute arising out of this Agreement.

Meta Llama 3 Acceptable Use Policy
Meta is committed to promoting safe and fair use of its tools and features,
 including Meta Llama 3. If you access or use Meta Llama 3, you agree to
 this Acceptable Use Policy ("Policy"). The most recent copy of this policy
 can be found at https://llama.meta.com/llama3/use-policy
Prohibited Uses
We want everyone to use Meta Llama 3 safely and responsibly. You agree you
 will not use, or allow others to use, Meta Llama 3 to: 1. Violate the law
 or others’ rights, including to:
1. Engage in, promote, generate, contribute to, encourage, plan, incite, or
 further illegal or unlawful activity or content, such as:
1. Violence or terrorism
2. Exploitation or harm to children, including the solicitation, creation,
 acquisition, or dissemination of child exploitative content or failure to
 report Child Sexual Abuse Material
3. Human trafficking, exploitation, and sexual violence
4. The illegal distribution of information or materials to minors, including
 obscene materials, or failure to employ legally required age-gating in
 connection with such information or materials.
5. Sexual solicitation
6. Any other criminal activity
2. Engage in, promote, incite, or facilitate the harassment, abuse,
 threatening, or bullying of individuals or groups of individuals
```

```
3. Engage in, promote, incite, or facilitate discrimination or other
 unlawful or harmful conduct in the provision of employment, employment
 benefits, credit, housing, other economic benefits, or other essential
 goods and services
4. Engage in the unauthorized or unlicensed practice of any profession
 including, but not limited to, financial, legal, medical/health, or related
 professional practices
5. Collect, process, disclose, generate, or infer health, demographic, or
 other sensitive personal or private information about individuals without
 rights and consents required by applicable laws
6. Engage in or facilitate any action or generate any content that
 infringes, misappropriates, or otherwise violates any third-party rights,
 including the outputs or results of any products or services using the
 Llama Materials
7. Create, generate, or facilitate the creation of malicious code, malware,
 computer viruses or do anything else that could disable, overburden,
 interfere with or impair the proper working, integrity, operation or
 appearance of a website or computer system
2. Engage in, promote, incite, facilitate, or assist in the planning or
 development of activities that present a risk of death or bodily harm to
 individuals, including use of Meta Llama 3 related to the following:
1. Military, warfare, nuclear industries or applications, espionage, use for
 materials or activities that are subject to the International Traffic Arms
 Regulations (ITAR) maintained by the United States Department of State
2. Guns and illegal weapons (including weapon development)
3. Illegal drugs and regulated/controlled substances
4. Operation of critical infrastructure, transportation technologies, or
 heavy machinery
5. Self-harm or harm to others, including suicide, cutting, and eating
 disorders
6. Any content intended to incite or promote violence, abuse, or any
 infliction of bodily harm to an individual
3. Intentionally deceive or mislead others, including use of Meta Llama 3
 related to the following:
1. Generating, promoting, or furthering fraud or the creation or promotion
 of disinformation
2. Generating, promoting, or furthering defamatory content, including the
 creation of defamatory statements, images, or other content
3. Generating, promoting, or further distributing spam
4. Impersonating another individual without consent, authorization, or legal
 right
5. Representing that the use of Meta Llama 3 or outputs are human-generated
6. Generating or facilitating false online engagement, including fake
 reviews and other means of fake online engagement
4. Fail to appropriately disclose to end users any known dangers of your AI
 system
Please report any violation of this Policy, software "bug," or other
 problems that could lead to a violation of this Policy through one of the
 following means:
* Reporting issues with the model: https://github.com/meta-llama/llama3
* Reporting risky content generated by the model:
developers.facebook.com/llama_output_feedback
* Reporting bugs and security concerns: facebook.com/whitehat/info
* Reporting violations of the Acceptable Use Policy or unlicensed uses of
 Meta Llama 3: LlamaUseReport@meta.com
```

Provider: MetaStuff, Ltd / Component(s): dom4j 2.1.4

```
Copyright 2001-2023 © MetaStuff, Ltd. and DOM4J contributors. All Rights
 Reserved.
Redistribution and use of this software and associated documentation
("Software"), with or without modification, are permitted provided
```

```
that the following conditions are met:
1. Redistributions of source code must retain copyright
   statements and notices.  Redistributions must also contain a
   copy of this document.
2. Redistributions in binary form must reproduce the
   above copyright notice, this list of conditions and the
   following disclaimer in the documentation and/or other
   materials provided with the distribution.
3. The name "DOM4J" must not be used to endorse or promote
   products derived from this Software without prior written
   permission of MetaStuff, Ltd.  For written permission,
   please contact dom4j-info@metastuff.com.
4. Products derived from this Software may not be called "DOM4J"
   nor may "DOM4J" appear in their names without prior written
   permission of MetaStuff, Ltd. DOM4J is a registered
   trademark of MetaStuff, Ltd.
5. Due credit should be given to the DOM4J Project - https://
dom4j.github.io/
THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL
METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
jaxen - BSD 2 - clause
Copyright © 2001-2022 The Jaxen Project. All Rights Reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
xpp3 (dependency) - Indiana University Extreme! Lab Software License(Xpp3
 classes)
Indiana University Extreme! Lab Software License
Version 1.1.1
Copyright (c) 2002 Extreme! Lab, Indiana University. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
```

```
   the documentation and/or other materials provided with the distribution.
3. The end-user documentation included with the redistribution, if any,
   must include the following acknowledgment:
  "This product includes software developed by the Indiana University
  Extreme! Lab (http://www.extreme.indiana.edu/)."
Alternately, this acknowledgment may appear in the software itself,
if and wherever such third-party acknowledgments normally appear.
4. The names "Indiana Univeristy" and "Indiana Univeristy Extreme! Lab"
must not be used to endorse or promote products derived from this
software without prior written permission. For written permission,
please contact http://www.extreme.indiana.edu/.
5. Products derived from this software may not use "Indiana Univeristy"
name nor may "Indiana Univeristy" appear in their name, without prior
written permission of the Indiana University.
THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHORS, COPYRIGHT HOLDERS OR ITS CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Apache 1.1 (javax.xml.namespace.QName)
/* ====================================================================
 * The Apache Software License, Version 1.1
 *
 * Copyright (c) 2000 The Apache Software Foundation.  All rights
 * reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. The end-user documentation included with the redistribution,
 *    if any, must include the following acknowledgment:
 *       "This product includes software developed by the
 *        Apache Software Foundation (http://www.apache.org/)."
 *    Alternately, this acknowledgment may appear in the software itself,
 *    if and wherever such third-party acknowledgments normally appear.
 *
 * 4. The names "Apache" and "Apache Software Foundation" must
 *    not be used to endorse or promote products derived from this
 *    software without prior written permission. For written
 *    permission, please contact apache@apache.org.
 *
 * 5. Products derived from this software may not be called "Apache",
 *    nor may "Apache" appear in their name, without prior written
 *    permission of the Apache Software Foundation.
 *
 * THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 * DISCLAIMED.  IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
```

```
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 * USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 * ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
 * OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 * OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 * ====================================================================
 *
 * This software consists of voluntary contributions made by many
 * individuals on behalf of the Apache Software Foundation.  For more
 * information on the Apache Software Foundation, please see
 * <http://www.apache.org/>.
 *
 * Portions of this software are based upon public domain software
 * originally written at the National Center for Supercomputing
 Applications,
 * University of Illinois, Urbana-Champaign.
 */
CCO 1.0 Public (XmlPull API)
CC0 1.0 Universal (CC0 1.0)Public Domain Dedication
No Copyright
The person who associated a work with this deed has dedicated the work to
 the public domain by waiving all of his or her rights to the work worldwide
 under copyright law, including all related and neighboring rights, to the
 extent allowed by law.
You can copy, modify, distribute and perform the work, even for commercial
 purposes, all without asking permission. See Other Information below.
Other Information
In no way are the patent or trademark rights of any person affected by CC0,
 nor are the rights that other persons may have in the work or in how the
 work is used, such as publicity or privacy rights.
Unless expressly stated otherwise, the person who associated a work with
 this deed makes no warranties about the work, and disclaims liability for
 all uses of the work, to the fullest extent permitted by applicable law.
When using or citing the work, you should not imply endorsement by the
 author or the affirmer.
xsdlib
    Copyright (c) 2001-2022 Oracle and/or its affiliates. All rights
 reserved.
    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
      - Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
      - Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.
      - Neither the name of Oracle nor the names of its
        contributors may be used to endorse or promote products derived
        from this software without specific prior written permission.
    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
    IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO,
    THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
    CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Michael Bostock / Component(s): D3 5.15.0

```
D3 v5.12.0
==========

TOP-LEVEL LICENSE:  BSD-3-Clause
-----------------
Copyright 2010-2017 Mike Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the author nor the names of contributors may be used
 to
  endorse or promote products derived from this software without specific
 prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

******************************************************************************

FOURTH PARTY DEPENDENCIES
-------------------------

LIBRARY NAME        LICENSE (see license text below)
------------        --------------------------------
d3-array            BSD-3-Clause
d3-axis             BSD-3-Clause
d3-brush            BSD-3-Clause
d3-chord            BSD-3-Clause
d3-collection       BSD-3-Clause
d3-color            BSD-3-Clause
d3-contour          BSD-3-Clause
d3-dispatch         BSD-3-Clause
```

```
d3-drag             BSD-3-Clause
d3-dsv              BSD-3-Clause
commander           MIT
iconv-lite          MIT
safer-buffer        MIT
rw                  BSD-3-Clause
d3-ease             BSD-3-Clause
d3-fetch            BSD-3-Clause
d3-force            BSD-3-Clause
d3-format           BSD-3-Clause
d3-geo              BSD-3-Clause
d3-hierarchy        BSD-3-Clause
d3-interpolate      BSD-3-Clause
d3-path             BSD-3-Clause
d3-polygon          BSD-3-Clause
d3-quadtree         BSD-3-Clause
d3-random           BSD-3-Clause
d3-scale            BSD-3-Clause
d3-scale-chromatic  BSD-3-Clause
d3-selection        BSD-3-Clause
d3-shape            BSD-3-Clause
d3-time             BSD-3-Clause
d3-time-format      BSD-3-Clause
d3-timer            BSD-3-Clause
d3-transition       BSD-3-Clause
d3-voronoi          BSD-3-Clause
d3-zoom             BSD-3-Clause

----------------------------------------

COPYRIGHT NOTICES
-----------------
d3-array:
Copyright 2010-2018 Mike Bostock

d3-axis:
Copyright 2010-2016 Mike Bostock

d3-brush:
Copyright 2010-2016 Mike Bostock

d3-chord:
Copyright 2010-2016 Mike Bostock

d3-collection:
Copyright 2010-2016, Mike Bostock

d3-color:
Copyright 2010-2016 Mike Bostock

d3-contour:
Copyright 2012-2017 Mike Bostock

d3-dispatch:
Copyright 2010-2016 Mike Bostock

d3-drag:
Copyright 2010-2016 Mike Bostock

d3-dsv:
Copyright 2013-2016 Mike Bostock

commander:
Copyright (c) 2011 TJ Holowaychuk <tj@vision-media.ca>
```

```
iconv-lite:
Copyright (c) 2011 Alexander Shtuchkin

safer-buffer:
Copyright (c) 2018 Nikita Skovoroda <chalkerx@gmail.com>

rw:
Copyright (c) 2014-2016, Michael Bostock

d3-ease:
Copyright 2010-2016 Mike Bostock
Copyright 2001 Robert Penner

d3-fetch:
Copyright 2016 Mike Bostock

d3-force:
Copyright 2010-2016 Mike Bostock

d3-format:
Copyright 2010-2015 Mike Bostock

d3-geo:
Copyright 2010-2016 Mike Bostock

d3-hierarchy:
Copyright 2010-2016 Mike Bostock

d3-interpolate:
Copyright 2010-2016 Mike Bostock

d3-path:
Copyright 2015-2016 Mike Bostock

d3-polygon:
Copyright 2010-2016 Mike Bostock

d3-quadtree:
Copyright 2010-2016 Mike Bostock

d3-random:
Copyright 2010-2016 Mike Bostock

d3-scale:
Copyright 2010-2015 Mike Bostock

d3-scale-chromatic:
Copyright 2010-2018 Mike Bostock

d3-selection:
Copyright (c) 2010-2018, Michael Bostock

d3-shape:
Copyright 2010-2015 Mike Bostock

d3-time:
Copyright 2010-2016 Mike Bostock

d3-time-format:
Copyright 2010-2017 Mike Bostock

d3-timer:
Copyright 2010-2016 Mike Bostock
```

```
d3-transition:
Copyright 2010-2016 Mike Bostock

d3-voronoi:
Copyright 2010-2016 Mike Bostock

d3-zoom:
Copyright 2010-2016 Mike Bostock

--------------------------------------------------------------------------------

BSD-3-Clause
------------
Copyright <YEAR> <COPYRIGHT HOLDER>

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the author nor the names of contributors may be used
 to
  endorse or promote products derived from this software without specific
 prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

MIT
---
Copyright <YEAR> <COPYRIGHT HOLDER>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
```

```
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
```

Provider: Michael Mclaughlin / Component(s): bignumber.js 9.1.0

```
The MIT License (MIT)
Copyright © <2022> Michael Mclaughlin

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the “Software”), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Michael Peyper / Component(s): react-hooks-testing-library 3.4.2

```
------------------------------- Top-level license --------------------------

    . @testing-library/react-hooks@3.4.2
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT) Copyright (c) 2019 Michael Peyper

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and
associated documentation files (the "Software"), to deal in the Software
 without restriction,
including without limitation the rights to use, copy, modify, merge,
 publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial
portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT
NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
 PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---------------------------- Fourth-party information ----------------------
=== ==========================================================================

    == NAME OF DEPENDENCY
    . regenerator-runtime@0.13.7
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2014-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

    ---------------------------------------------
    == NAME OF DEPENDENCY
    . @babel/runtime@7.12.5
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2014-present Sebastian McKenzie and other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
```

```
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

    ---------------------------------------------
    == NAME OF DEPENDENCY
    . @types/testing-library__react-hooks@3.4.1
    == License Type
    . MIT
    == Copyright Notices And License
    .     MIT License

    Copyright (c) Microsoft Corporation.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE

    ---------------------------------------------
    == NAME OF DEPENDENCY
    . @types/react-test-renderer@16.9.3
    == License Type
    . MIT
    == Copyright Notices And License
    .     MIT License

    Copyright (c) Microsoft Corporation.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
```

```
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE

    ---------------------------------------------
```

Provider: Michael Thompson / Component(s): re-frame 0.4.1

```
The MIT License (MIT)

Copyright (c) 2015 Michael Thompson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Michal Witkowski / Component(s): go-grpc-middleware 1.0.0

```
go-grpc-middleware 1.0.0
COPYRIGHT: Copyright 2016-2017 David Ackroyd , Michal Witkowski. All Rights
 Reserved.
LICENSE: Apache 2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
```

```
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.


================================
4P Dependencies:

go-lang version 1.2
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
github.com/golang/protobuf v1.1.0
https://raw.githubusercontent.com/golang/protobuf/master/LICENSE
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
golang.org/x/net version 1c05540f6879653db88113bc4a2b70aec4bd491f
https://go.googlesource.com/net/+/master/LICENSE
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
golang.org/x/text version b19bf474d317b857955b12035d2c5acb57ce8b01
https://go.googlesource.com/text/+/master/LICENSE
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
google.golang.org/genproto version 32ee49c4dd805befd833990acba36cb75042378c
COPYRIGHT: Copyright 2016 Google Inc.
https://raw.githubusercontent.com/google/go-genproto/master/LICENSE
LICENSE: Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



---
google.golang.org/grpc version v1.13.0
https://raw.githubusercontent.com/grpc/grpc-go/master/LICENSE
COPYRIGHT: Copyright 2016, Google Inc.
LICENSE: Apache 2.0
                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
```

```
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
```

```
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



---
github.com/sirupsen/logrus
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Microsoft / Component(s): @microsoft/portalhostingservice

```
------------------------------- Top-level license --------------------------
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT PORTAL FRAMEWORK SDK

These license terms are an agreement between you and Microsoft Corporation
 (or one of its affiliates). They apply to the software named above and any
 Microsoft services or software updates (except to the extent such services
 or updates are accompanied by new or additional terms, in which case those
 different terms apply prospectively and do not alter your or Microsoft's
 rights relating to pre-updated software or services). IF YOU COMPLY WITH
 THESE LICENSE TERMS, YOU HAVE THE RIGHTS BELOW.  BY USING THE SOFTWARE, YOU
 ACCEPT THESE TERMS.
1. INSTALLATION AND USE RIGHTS.
a) General. You may install and use any number of copies of the software to
 develop and test your applications.
b) Third Party Software. The software may include third party applications
 that Microsoft, not the third party, licenses to you under this agreement.
 Any included notices for third party applications are for your information
 only.
2. DISTRIBUTABLE CODE. The software may contain code you are permitted to
 distribute (i.e. make available for third parties) in applications you
 develop, as described in this Section.
a) Distribution Rights. The code and test files described below are
 distributable if included with the software.
i. Sample Code, Templates, and Styles. You may copy, modify, and distribute
 the source and object code form of code marked as "sample", "template",
 "simple styles", and "sketch styles"; and
ii. Third Party Distribution. You may permit distributors of your
 applications to copy and distribute any of this distributable code you
 elect to distribute with your applications.
b) Distribution Requirements. For any code you distribute, you must:
i. add significant primary functionality to it in your applications;
ii. require distributors and external end users to agree to terms that
 protect it and Microsoft at least as much as this agreement; and
iii. indemnify, defend, and hold harmless Microsoft from any claims,
 including attorneys' fees, related to the distribution or use of your
 applications, except to the extent that any claim is based solely on the
 unmodified distributable code.
c) Distribution Restrictions. You may not:
i. use Microsoft's trademarks or trade dress in your application in any way
 that suggests your application comes from or is endorsed by Microsoft; or
ii. modify or distribute the source code of any distributable code so
 that any part of it becomes subject to any license that requires that the
 distributable code, any other part of the software, or any of Microsoft's
 other intellectual property be disclosed or distributed in source code
 form, or that others have the right to modify it.
3. DATA COLLECTION. The software may collect information about you and
 your use of the software and send that to Microsoft. Microsoft may use
 this information to provide services and improve Microsoft's products
 and services. Your opt-out rights, if any, are described in the product
```

```
 documentation. Some features in the software may enable collection of
 data from users of your applications that access or use the software. If
 you use these features to enable data collection in your applications,
 you must comply with applicable law, including getting any required user
 consent, and maintain a prominent privacy policy that accurately informs
 users about how you use, collect, and share their data. You can learn more
 about Microsoft's data collection and use in the product documentation
 and the Microsoft Privacy Statement at https://go.microsoft.com/fwlink/?
LinkId=521839. You agree to comply with all applicable provisions of the
 Microsoft Privacy Statement.
a) Processing of Personal Data.  To the extent Microsoft is a processor or
 subprocessor of personal data in connection with the software, Microsoft
 makes the commitments in the European Union General Data Protection
 Regulation Terms of the Online Services Terms to all customers effective
 May 25, 2018, at http://go.microsoft.com/?linkid=9840733.
4. SCOPE OF LICENSE. The software is licensed, not sold. Microsoft reserves
 all other rights. Unless applicable law gives you more rights despite this
 limitation, you will not (and have no right to):
a) work around any technical limitations in the software that only allow you
 to use it in certain ways;
b) reverse engineer, decompile or disassemble the software;
c) remove, minimize, block, or modify any notices of Microsoft or its
 suppliers in the software;
d) use the software in any way that is against the law or to create or
 propagate malware; or
e) share, publish, distribute, or lend the software (except for any
 distributable code, subject to the terms above), provide the software as a
 stand-alone hosted solution for others to use, or transfer the software or
 this agreement to any third party.
5. EXPORT RESTRICTIONS. You must comply with all domestic and international
 export laws and regulations that apply to the software, which include
 restrictions on destinations, end users, and end use. For further
 information on export restrictions, visit http://aka.ms/exporting.
6. SUPPORT SERVICES. Microsoft is not obligated under this agreement to
 provide any support services for the software. Any support provided is "as
 is", "with all faults", and without warranty of any kind.
7. ENTIRE AGREEMENT. This agreement, and any other terms Microsoft may
 provide for supplements, updates, or third-party applications, is the
 entire agreement for the software.
8. APPLICABLE LAW AND PLACE TO RESOLVE DISPUTES. If you acquired the
 software in the United States or Canada, the laws of the state or province
 where you live (or, if a business, where your principal place of business
 is located) govern the interpretation of this agreement, claims for
 its breach, and all other claims (including consumer protection, unfair
 competition, and tort claims), regardless of conflict of laws principles.
 If you acquired the software in any other country, its laws apply. If
 U.S. federal jurisdiction exists, you and Microsoft consent to exclusive
 jurisdiction and venue in the federal court in King County, Washington for
 all disputes heard in court. If not, you and Microsoft consent to exclusive
 jurisdiction and venue in the Superior Court of King County, Washington for
 all disputes heard in court.
9. CONSUMER RIGHTS; REGIONAL VARIATIONS. This agreement describes certain
 legal rights. You may have other rights, including consumer rights,
 under the laws of your state or country. Separate and apart from your
 relationship with Microsoft, you may also have rights with respect to the
 party from which you acquired the software. This agreement does not change
 those other rights if the laws of your state or country do not permit it
 to do so. For example, if you acquired the software in one of the below
 regions, or mandatory country law applies, then the following provisions
 apply to you:
a. Australia. You have statutory guarantees under the Australian Consumer
 Law and nothing in this agreement is intended to affect those rights.
b. Canada. If you acquired this software in Canada, you may stop receiving
 updates by turning off the automatic update feature, disconnecting your
```

```
 device from the Internet (if and when you re-connect to the Internet,
 however, the software will resume checking for and installing updates),
 or uninstalling the software. The product documentation, if any, may also
 specify how to turn off updates for your specific device or software.
c. Germany and Austria.
i. Warranty. The properly licensed software will perform substantially as
 described in any Microsoft materials that accompany the software. However,
 Microsoft gives no contractual guarantee in relation to the licensed
 software.
ii. Limitation of Liability. In case of intentional conduct, gross
 negligence, claims based on the Product Liability Act, as well as, in case
 of death or personal or physical injury, Microsoft is liable according to
 the statutory law.
Subject to the foregoing clause ii., Microsoft will only be liable for
 slight negligence if Microsoft is in breach of such material contractual
 obligations, the fulfillment of which facilitate the due performance of
 this agreement, the breach of which would endanger the purpose of this
 agreement and the compliance with which a party may constantly trust in
 (so-called "cardinal obligations"). In other cases of slight negligence,
 Microsoft will not be liable for slight negligence.
10. DISCLAIMER OF WARRANTY. THE SOFTWARE IS LICENSED "AS IS." YOU BEAR
 THE RISK OF USING IT. MICROSOFT GIVES NO EXPRESS WARRANTIES, GUARANTEES,
 OR CONDITIONS. TO THE EXTENT PERMITTED UNDER APPLICABLE LAWS, MICROSOFT
 EXCLUDES ALL IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY, FITNESS FOR A
 PARTICULAR PURPOSE, AND NON-INFRINGEMENT.
11. LIMITATION ON AND EXCLUSION OF DAMAGES. IF YOU HAVE ANY BASIS FOR
 RECOVERING DAMAGES DESPITE THE PRECEDING DISCLAIMER OF WARRANTY, YOU CAN
 RECOVER FROM MICROSOFT AND ITS SUPPLIERS ONLY DIRECT DAMAGES UP TO U.S.
 $5.00. YOU CANNOT RECOVER ANY OTHER DAMAGES, INCLUDING CONSEQUENTIAL, LOST
 PROFITS, SPECIAL, INDIRECT, OR INCIDENTAL DAMAGES.
This limitation applies to (a) anything related to the software, services,
 content (including code) on third party Internet sites, or third party
 applications; and (b) claims for breach of contract, warranty, guarantee,
 or condition; strict liability, negligence, or other tort; or any other
 claim; in each case to the extent permitted by applicable law.
It also applies even if Microsoft knew or should have known about the
 possibility of the damages. The above limitation or exclusion may not apply
 to you because your state, province, or country may not allow the exclusion
 or limitation of incidental, consequential, or other damages.

Please note: As this software is distributed in Canada, some of the clauses
 in this agreement are provided below in French.
Remarque: Ce logiciel étant distribué au Canada, certaines des clauses dans
 ce contrat sont fournies ci-dessous en français.
EXONÉRATION DE GARANTIE. Le logiciel visé par une licence est offert « tel
 quel ». Toute utilisation de ce logiciel est à votre seule risque et péril.
 Microsoft n’accorde aucune autre garantie expresse. Vous pouvez bénéficier
 de droits additionnels en vertu du droit local sur la protection des
 consommateurs, que ce contrat ne peut modifier. La ou elles sont permises
 par le droit locale, les garanties implicites de qualité marchande,
 d’adéquation à un usage particulier et d’absence de contrefaçon sont
 exclues.
LIMITATION DES DOMMAGES-INTÉRÊTS ET EXCLUSION DE RESPONSABILITÉ POUR LES
 DOMMAGES. Vous pouvez obtenir de Microsoft et de ses fournisseurs une
 indemnisation en cas de dommages directs uniquement à hauteur de 5,00 $ US.
 Vous ne pouvez prétendre à aucune indemnisation pour les autres dommages,
 y compris les dommages spéciaux, indirects ou accessoires et pertes de
 bénéfices.
Cette limitation concerne:
• tout ce qui est relié au logiciel, aux services ou au contenu (y compris
 le code) figurant sur des sites Internet tiers ou dans des programmes
 tiers; et
```

```
• les réclamations au titre de violation de contrat ou de garantie, ou au
 titre de responsabilité stricte, de négligence ou d’une autre faute dans la
 limite autorisée par la loi en vigueur.
Elle s’applique également, même si Microsoft connaissait ou devrait
 connaître l’éventualité d’un tel dommage. Si votre pays n’autorise pas
 l’exclusion ou la limitation de responsabilité pour les dommages indirects,
 accessoires ou de quelque nature que ce soit, il se peut que la limitation
 ou l’exclusion ci-dessus ne s’appliquera pas à votre égard.
EFFET JURIDIQUE. Le présent contrat décrit certains droits juridiques.
 Vous pourriez avoir d’autres droits prévus par les lois de votre pays. Le
 présent contrat ne modifie pas les droits que vous confèrent les lois de
 votre pays si celles-ci ne le permettent pas.
.
.
.
.
.
.
---------------------------- Fourth-party information ----------------------

@azure/cosmos
.
MIT
.
The MIT License (MIT)

Copyright (c) 2020 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
.
.
--------------------------------(separator)---------------------------------
@azure/storage-blob
.
MIT
.
The MIT License (MIT)

Copyright (c) 2020 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
.
.
--------------------------------(separator)---------------------------------
bluebird
.
MIT
.
The MIT License (MIT)

Copyright (c) 2013-2015 Petka Antonov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

.
.
--------------------------------(separator)---------------------------------
body-parser
.
MIT
.
(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>
Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
```

```
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

.
.
--------------------------------(separator)----------------------------------
chokidar
.
MIT
.
The MIT License (MIT)

Copyright (c) 2012-2019 Paul Miller (https://paulmillr.com), Elan Shanker

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the “Software”), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

.
.
--------------------------------(separator)----------------------------------
connect-timeout
.
MIT
.
(The MIT License)

Copyright (c) 2014 Jonathan Ong <me@jongleberry.com>
Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
```

```
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

.
.
--------------------------------(separator)----------------------------------
devcert
.
MIT
.
## License

MIT © [Dave Wasmer](http://davewasmer.com)
.
.
--------------------------------(separator)----------------------------------
express
.
MIT
.
(The MIT License)

Copyright (c) 2009-2014 TJ Holowaychuk <tj@vision-media.ca>
Copyright (c) 2013-2014 Roman Shtylman <shtylman+expressjs@gmail.com>
Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

.
.
--------------------------------(separator)----------------------------------
jsonschema.
.
MIT
.
jsonschema is licensed under MIT license.
```

```
Copyright (C) 2012-2015 Tom de Grunt <tom@degrunt.nl>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

.
.
--------------------------------(separator)---------------------------------
memfs
.
Unlicense
.
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <https://unlicense.org>

.
.
--------------------------------(separator)---------------------------------
mime
.
```

```
MIT
.
The MIT License (MIT)

Copyright (c) 2010 Benjamin Thomas, Robert Kieffer

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

.
.
--------------------------------(separator)---------------------------------
node-cache
.
MIT
.
The MIT License (MIT)

Copyright (c) 2019 mpneuried

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

.
.
--------------------------------(separator)---------------------------------
node-fetch
.
```

```
MIT
.
The MIT License (MIT)

Copyright (c) 2016 David Frank

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



.
.
--------------------------------(separator)---------------------------------
open
.
MIT
.
MIT License

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (https://
sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

.
.
--------------------------------(separator)---------------------------------
relaxed-json
.
```

```
Unknown
.
Copyright (c) 2013, Oleg Grenrus
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the Oleg Grenrus nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL OLEG GRENRUS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

.
.
--------------------------------(separator)---------------------------------
unizpper
.
MIT
.
Copyright (c) 2012 - 2013 Near Infinity Corporation

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

Commits in this fork are (c) Ziggy Jonsson (ziggy.jonsson.nyc@gmail.com)
and fall under same licence structure as the original repo (MIT)
.
.
```

```
--------------------------------(separator)---------------------------------
uuid
.
MIT
.
The MIT License (MIT)

Copyright (c) 2010-2016 Robert Kieffer and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

.
.
--------------------------------(separator)---------------------------------
xml2js
.
Unknown
.
Copyright 2010, 2011, 2012, 2013. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

.
.
--------------------------------(separator)---------------------------------
yargs
.
MIT
```

```
.
MIT License

Copyright 2010 James Halliday (mail@substack.net); Modified work Copyright
 2014 Contributors (ben@npmjs.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

.
.
```

Provider: Microsoft / Component(s): Azure CLI Curl Install Script 2.0.9

```
The MIT License (MIT)

Copyright (c) Microsoft Corporation. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


4th Party Dependencies, Version, License Text:

python, version 2
```

```
A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property.  Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
================================================================

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
```

```
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017 Python Software Foundation; All
 Rights
Reserved" are retained in Python alone or in any derivative version prepared
 by
Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
--------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").
```

```
2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the Internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the Internet
```

```
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
```

```
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


python, version 3

 A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property.  Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.
```

```
Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017 Python Software Foundation; All
 Rights
Reserved" are retained in Python alone or in any derivative version prepared
 by
Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------
```

```
BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
```

```
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the Internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the Internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
```

```
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


virtualenv, version 15.0.0

Copyright (c) 2007 Ian Bicking and Contributors
Copyright (c) 2009 Ian Bicking, The Open Planning Project
Copyright (c) 2011-2016 The virtualenv developers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Microsoft / Component(s): Azure Resource Manager 2.31.0

```
###########################
#### TOP LEVEL LICENSE ####
###########################

com.azure.resourcemanager:azure-resourcemanager

The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------

###########################
### 4TH PARTY LICENSES ###
###########################

com.azure:azure-core
com.azure:azure-json
com.azure:azure-core-management
com.azure.resourcemanager:azure-resourcemanager-resources
com.azure.resourcemanager:azure-resourcemanager-storage
com.azure.resourcemanager:azure-resourcemanager-compute
com.azure.resourcemanager:azure-resourcemanager-network
com.azure.resourcemanager:azure-resourcemanager-keyvault
com.azure:azure-security-keyvault-keys
com.azure:azure-security-keyvault-secrets
com.azure.resourcemanager:azure-resourcemanager-msi
com.azure.resourcemanager:azure-resourcemanager-sql
com.azure.resourcemanager:azure-resourcemanager-authorization
com.azure.resourcemanager:azure-resourcemanager-appservice
com.azure.resourcemanager:azure-resourcemanager-cosmos
com.azure.resourcemanager:azure-resourcemanager-containerservice
com.azure.resourcemanager:azure-resourcemanager-monitor
com.azure.resourcemanager:azure-resourcemanager-containerregistry
com.azure.resourcemanager:azure-resourcemanager-dns
com.azure.resourcemanager:azure-resourcemanager-appplatform
com.azure:azure-storage-file-share
com.azure:azure-storage-common
com.azure.resourcemanager:azure-resourcemanager-containerinstance
com.azure.resourcemanager:azure-resourcemanager-privatedns
com.azure.resourcemanager:azure-resourcemanager-redis
com.azure.resourcemanager:azure-resourcemanager-eventhubs
com.azure.resourcemanager:azure-resourcemanager-trafficmanager
com.azure.resourcemanager:azure-resourcemanager-servicebus
com.azure.resourcemanager:azure-resourcemanager-cdn
com.azure.resourcemanager:azure-resourcemanager-search


The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------

com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-core
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.dataformat:jackson-dataformat-xml
com.fasterxml.jackson.datatype:jackson-datatype-jsr310
com.fasterxml.woodstox:woodstox-core
io.projectreactor:reactor-core

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------------------------------------------------------

org.reactivestreams:reactive-streams

MIT No Attribution

Copyright 2014 Reactive Streams

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

org.slf4j:slf4j-api

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
```

```
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

org.codehaus.woodstox:stax2-api


This copy of Stax2 API is licensed under the
Simplified BSD License (also known as "2-clause BSD", or "FreeBSD License")
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

Copyright <YEAR> <COPYRIGHT HOLDER>

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS”
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

with details of:

<COPYRIGHT HOLDER> = FasterXML.com
<YEAR> = 2010-
--------------------------------------------------------------------------------

#################
#### NOTICES ####
#################

com.azure.resourcemanager:azure-resourcemanager
```

```
com.azure:azure-core
com.azure:azure-json
com.azure:azure-core-management
com.azure.resourcemanager:azure-resourcemanager-resources
com.azure.resourcemanager:azure-resourcemanager-storage
com.azure.resourcemanager:azure-resourcemanager-compute
com.azure.resourcemanager:azure-resourcemanager-network
com.azure.resourcemanager:azure-resourcemanager-keyvault
com.azure:azure-security-keyvault-keys
com.azure:azure-security-keyvault-secrets
com.azure.resourcemanager:azure-resourcemanager-msi
com.azure.resourcemanager:azure-resourcemanager-sql
com.azure.resourcemanager:azure-resourcemanager-authorization
com.azure.resourcemanager:azure-resourcemanager-appservice
com.azure.resourcemanager:azure-resourcemanager-cosmos
com.azure.resourcemanager:azure-resourcemanager-containerservice
com.azure.resourcemanager:azure-resourcemanager-monitor
com.azure.resourcemanager:azure-resourcemanager-containerregistry
com.azure.resourcemanager:azure-resourcemanager-dns
com.azure.resourcemanager:azure-resourcemanager-appplatform
com.azure:azure-storage-file-share
com.azure:azure-storage-common
com.azure.resourcemanager:azure-resourcemanager-containerinstance
com.azure.resourcemanager:azure-resourcemanager-privatedns
com.azure.resourcemanager:azure-resourcemanager-redis
com.azure.resourcemanager:azure-resourcemanager-eventhubs
com.azure.resourcemanager:azure-resourcemanager-trafficmanager
com.azure.resourcemanager:azure-resourcemanager-servicebus
com.azure.resourcemanager:azure-resourcemanager-cdn
com.azure.resourcemanager:azure-resourcemanager-search

NOTICES AND INFORMATION
Do Not Translate or Localize

This software incorporates material from third parties. Microsoft makes
 certain
open source code available at https://3rdpartysource.microsoft.com, or you
 may
send a check or money order for US $5.00, including the product name, the
 open
source component name, and version number, to:

Source Code Compliance Team
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
USA

Notwithstanding any other terms, you may reverse engineer this software to
 the
extent required to debug changes to any libraries licensed under the GNU
 Lesser
General Public License.

--------------------------------------------------------------------------------

Azure SDK for Java uses third-party libraries or other resources that may be
distributed under licenses different than the Azure SDK for Java software.

In the event that we accidentally failed to list a required notice, please
bring it to our attention. Post an issue or email us:

           azjavasdkhelp@microsoft.com
```

```
The attached notices are provided for information only.

License notice for Hamcrest
-------------------------------------------------------------------------------

The 3-Clause BSD License

Copyright (c) 2000-2015 www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of
conditions and the following disclaimer. Redistributions in binary form must
 reproduce
the above copyright notice, this list of conditions and the following
 disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used
 to endorse
or promote products derived from this software without specific prior
 written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
DAMAGE.

License notice for Slf4j API
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.
```

```
 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Slf4j Simple
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Guava (https://github.com/google/guava)
-------------------------------------------------------------------------------

Copyright (C) 2010 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for Netty
-------------------------------------------------------------------------------

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
```

```
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

License notice for JUG Java Uuid Generator
-------------------------------------------------------------------------------

JUG Java Uuid Generator

Copyright (c) 2002- Tatu Saloranta, tatu.saloranta@iki.fi

Licensed under the License specified in the file LICENSE which is
included with the source code.
You may not use this file except in compliance with the License.

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


License notice for Jackson
-------------------------------------------------------------------------------

Copyright (c) 2007 Jackson Project

Jackson-annotations (http://github.com/FasterXML/jackson
Jackson-core (https://github.com/FasterXML/jackson-core
jackson-databind (http://github.com/FasterXML/jackson
Jackson-dataformat-XML (https://github.com/FasterXML/jackson-dataformat-xml)
Jackson datatype: JSR310 (https://github.com/FasterXML/jackson-modules-
java8/jackson-datatype-jsr310)
Jackson module: Afterburner (https://github.com/FasterXML/jackson-modules-
base)
Jackson module: JAXB Annotations (https://github.com/FasterXML/jackson-
modules-base)
Woodstox (https://github.com/FasterXML/woodstox)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for Metrics Core
-------------------------------------------------------------------------------

Copyright (c) 2010-2013 Coda Hale, Yammer.com, 2014-2020 Dropwizard Team

Metrics Core (https://github.com/dropwizard/metrics)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
```

```
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for micrometer-core
-------------------------------------------------------------------------------

Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.

micrometer-core (https://github.com/micrometer-metrics/micrometer)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for project Reactor
-------------------------------------------------------------------------------

Copyright (c) 2011-2017 Pivotal Software Inc, All Rights Reserved.

Non-Blocking Reactive Foundation for the JVM (https://github.com/reactor/
reactor-core)
reactor-scala-extensions (https://github.com/reactor/reactor-scala-
extensions)
Reactive Streams Netty driver (https://github.com/reactor/reactor-netty)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for JavaBeans Activation Framework API
-------------------------------------------------------------------------------
```

```
JavaBeans Activation Framework API jar (https://github.com/eclipse-ee4j/jaf/
jakarta.activation-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

jakarta.xml.bind-api (https://github.com/eclipse-ee4j/jaxb-api/
jakarta.xml.bind-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

Stax2 API (http://github.com/FasterXML/stax2-api)
Copyright (c) 2008 FasterXML LLC info@fasterxml.com

This source code is licensed under standard BSD license, which is compatible
 with all Free and Open Software (OSS) licenses.


License notice for HdrHistogrami
-------------------------------------------------------------------------------
HdrHistogram (http://hdrhistogram.github.io/HdrHistogram/)

The code in this repository code was Written by Gil Tene, Michael Barker,
and Matt Warren, and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/

For users of this code who wish to consume it under the "BSD" license
rather than under the public domain or CC0 contribution text mentioned
above, the code found under this directory is *also* provided under the
following license (commonly referred to as the BSD 2-Clause License). This
license does not detract from the above stated release of the code into
the public domain, and simply represents an additional license granted by
the Author.

-----------------------------------------------------------------------------
** Beginning of "BSD 2-Clause License" text. **

 Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
 Copyright (c) 2014 Michael Barker
 Copyright (c) 2014 Matt Warren
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
```

```
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.


License notice for LatencyUtils
-------------------------------------------------------------------------------

LatencyUtils (http://latencyutils.github.io/LatencyUtils/)

  * This code was Written by Gil Tene of Azul Systems, and released to the
  * public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/

 For users of this code who wish to consume it under the "BSD" license
 rather than under the public domain or CC0 contribution text mentioned
 above, the code found under this directory is *also* provided under the
 following license (commonly referred to as the BSD 2-Clause License). This
 license does not detract from the above stated release of the code into
 the public domain, and simply represents an additional license granted by
 the Author.

 -----------------------------------------------------------------------------
 ** Beginning of "BSD 2-Clause License" text. **

  Copyright (c) 2012, 2013, 2014 Gil Tene
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
  THE POSSIBILITY OF SUCH DAMAGE.


License notice for reactive-streams
-------------------------------------------------------------------------------
```

```
reactive-streams (http://www.reactive-streams.org/)

Copyright Statement for Contributions to the Reactive Streams Project
======================================================================

I hereby represent that all present, past and future contributions I make to
the Reactive Streams project (which includes all repositories owned by the
"reactive-streams" github organization) are governed by the Creative Commons
Zero 1.0 Universal copyright statement, placing my contributions in the
 public
domain. This entails that to the extent possible under law I waive all
copyright and related or neighboring rights to the code or documents I
contribute. I also represent that I have the authority to perform the above
waiver with respect to the entirety of my contributions.

The text of the copyright statement is included in the COPYING file at the
 root
of the reactive-streams repository at
https://github.com/reactive-streams/reactive-streams-jvm/blob/master/
COPYING.

Underwriting parties:

github name    | Real Name, Email Address used for git commits, Company
---------------
+-------------------------------------------------------------------------------
rkuhn          | Roland Kuhn, rk@rkuhn.info, Typesafe Inc.
benjchristensen| Ben Christensen, benjchristensen@gmail.com, Netflix Inc.
viktorklang    | Viktor Klang, viktor.klang@gmail.com, Typesafe Inc.
smaldini       | Stephane Maldini, stephane.maldini@gmail.com, Pivotal
 Software Inc.
savulchik      | Stanislav Savulchik, s.savulchik@gmail.com
ktoso          | Konrad Malawski, konrad.malawski@project13.pl, Typesafe
 Inc.
ouertani       | Slim Ouertani, ouertani@gmail.com
2m             | Martynas Mickevičius, mmartynas@gmail.com, Typesafe Inc.
ldaley         | Luke Daley, luke.daley@gradleware.com, Gradleware Inc.
colinrgodsey   | Colin Godsey, crgodsey@gmail.com, MediaMath Inc.
davidmoten     | Dave Moten, davidmoten@gmail.com
briantopping   | Brian Topping, brian.topping@gmail.com, Mauswerks LLC
rstoyanchev    | Rossen Stoyanchev, rstoyanchev@pivotal.io, Pivotal
BjornHamels    | Björn Hamels, bjorn@hamels.nl
JakeWharton    | Jake Wharton, jakewharton@gmail.com
anthonyvdotbe  | Anthony Vanelverdinghe, anthonyv.be@outlook.com
seratch        | Kazuhiro Sera, seratch@gmail.com, SmartNews, Inc.
akarnokd       | David Karnok, akarnokd@gmail.com
egetman        | Evgeniy Getman, getman.eugene@gmail.com
patriknw       | Patrik Nordwall, patrik.nordwall@gmail.com, Lightbend Inc
angelsanz      | Ángel Sanz, angelsanz@users.noreply.github.com
shenghaiyang   | 盛海洋, shenghaiyang@aliyun.com
kiiadi         | Kyle Thomson, kylthoms@amazon.com, Amazon.com
jroper         | James Roper, james@jazzy.id.au, Lightbend Inc.
olegdokuka     | Oleh Dokuka, shadowgun@.i.ua, Netifi Inc.
Scottmitch     | Scott Mitchell, scott_mitchell@apple.com, Apple Inc.
retronym       | Jason Zaugg, jzaugg@gmail.com, Lightbend Inc.

Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with
this code has waived all copyright and related or neighboring
rights to this code.

You should have received a copy of the CC0 legalcode along with this
```

```
work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.

License notice for Bouncy Castle
--------------------------------------------------------------------------------

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated
documentation files (the "Software"), to deal in the Software without
 restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and
to permit persons to whom the Software is furnished to do so, subject to the
 following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


License notice for KeePassJava2
--------------------------------------------------------------------------------

Copyright 2015 Jo Rabin

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

License notice for openkeepass
--------------------------------------------------------------------------------

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.
```

```
Openkeepass License Link: https://github.com/cternes/openkeepass/blob/
master/LICENSE.txt
--------------------------------------------------------------------------------------------

License notice for Apache Commons
--------------------------------------------------------------------------------

Copyright 2002-2019 The Apache Software Foundation

commons-codec (https://github.com/apache/commons-codec)
commons-text (https://github.com/apache/commons-text)
commons-lang (https://github.com/apache/commons-lang)
commons-collections (https://github.com/apache/commons-collections)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express or implied.
See the License for the specific language governing permissions and
 limitations under the License.

--------------------------------------------------------------------------------------------

License notice for GraalVM
--------------------------------------------------------------------------------
org.graalvm.sdk:graal-sdk - https://github.com/graalvm/native-build-tools/
blob/master/common/junit-platform-native/LICENSE
The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
 any person obtaining a copy of this software,
associated documentation and/or data (collectively the "Software"), free of
 charge and under any and all copyright rights
in the Software, and any and all patent rights owned or freely licensable by
 each licensor hereunder covering either
(i) the unmodified Software as contributed to or provided by such licensor,
 or (ii) the Larger Works (as defined below),
to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
 one is included with the Software each a
"Larger Work" to which the Software is contributed by such licensors),
 without restriction, including without limitation
the rights to copy, create derivative works of, display, perform, and
 distribute the Software and make, use, sell, offer
for sale, import, export, have made, and have sold the Software and the
 Larger Work(s), and to sublicense the foregoing
rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at
 a minimum a reference to the UPL must be
included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------------------

License notice for JUnit platform native plugin
------------------------------------------------------------------------------
org.graalvm.buildtools:junit-platform-native - https://github.com/graalvm/
native-build-tools/blob/master/common/junit-platform-native/LICENSE

Copyright (c) 2020, 2021, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
 any
person obtaining a copy of this software, associated documentation and/or
data (collectively the "Software"), free of charge and under any and all
copyright rights in the Software, and any and all patent rights owned or
freely licensable by each licensor hereunder covering either (i) the
unmodified Software as contributed to or provided by such licensor, or (ii)
the Larger Works (as defined below), to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
one is included with the Software each a "Larger Work" to which the Software
is contributed by such licensors),

without restriction, including without limitation the rights to copy, create
derivative works of, display, perform, and distribute the Software and make,
use, sell, offer for sale, import, export, have made, and have sold the
Software and the Larger Work(s), and to sublicense the foregoing rights on
either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at
 a
minimum a reference to the UPL must be included in all copies or substantial
portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
------------------------------------------------------------------------------

com.fasterxml.jackson.dataformat:jackson-dataformat-xml

# Jackson JSON processor
```

```
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
-------------------------------------------------------------------------------

com.fasterxml.jackson.core:jackson-core
com.fasterxml.jackson.core:jackson-databind

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

Provider: Microsoft / Component(s): azure-resourcemanager 2.21.0

```
NOTICES AND INFORMATION
Do Not Translate or Localize

This software incorporates material from third parties. Microsoft makes
 certain
open source code available at https://3rdpartysource.microsoft.com, or you
 may
send a check or money order for US $5.00, including the product name, the
 open
source component name, and version number, to:

Source Code Compliance Team
Microsoft Corporation
One Microsoft Way
```

```
Redmond, WA 98052
USA

Notwithstanding any other terms, you may reverse engineer this software to
 the
extent required to debug changes to any libraries licensed under the GNU
 Lesser
General Public License.

--------------------------------------------------------------------------------

Azure SDK for Java uses third-party libraries or other resources that may be
distributed under licenses different than the Azure SDK for Java software.

In the event that we accidentally failed to list a required notice, please
bring it to our attention. Post an issue or email us:

           azjavasdkhelp@microsoft.com

The attached notices are provided for information only.

License notice for Hamcrest
--------------------------------------------------------------------------------

The 3-Clause BSD License

Copyright (c) 2000-2015 www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of
conditions and the following disclaimer. Redistributions in binary form must
 reproduce
the above copyright notice, this list of conditions and the following
 disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used
 to endorse
or promote products derived from this software without specific prior
 written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
```

```
DAMAGE.

License notice for Slf4j API
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Slf4j Simple
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Guava (https://github.com/google/guava)
-------------------------------------------------------------------------------

Copyright (C) 2010 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for Netty
--------------------------------------------------------------------------------

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

License notice for JUG Java Uuid Generator
--------------------------------------------------------------------------------

JUG Java Uuid Generator

Copyright (c) 2002- Tatu Saloranta, tatu.saloranta@iki.fi

Licensed under the License specified in the file LICENSE which is
included with the source code.
You may not use this file except in compliance with the License.

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


License notice for Jackson
--------------------------------------------------------------------------------

Copyright (c) 2007 Jackson Project

Jackson-annotations (http://github.com/FasterXML/jackson
Jackson-core (https://github.com/FasterXML/jackson-core
jackson-databind (http://github.com/FasterXML/jackson
Jackson-dataformat-XML (https://github.com/FasterXML/jackson-dataformat-xml)
Jackson datatype: JSR310 (https://github.com/FasterXML/jackson-modules-
java8/jackson-datatype-jsr310)
Jackson module: Afterburner (https://github.com/FasterXML/jackson-modules-
base)
Jackson module: JAXB Annotations (https://github.com/FasterXML/jackson-
modules-base)
Woodstox (https://github.com/FasterXML/woodstox)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at
```

```
http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for Metrics Core
-------------------------------------------------------------------------------

Copyright (c) 2010-2013 Coda Hale, Yammer.com, 2014-2020 Dropwizard Team

Metrics Core (https://github.com/dropwizard/metrics)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for micrometer-core
-------------------------------------------------------------------------------

Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.

micrometer-core (https://github.com/micrometer-metrics/micrometer)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for project Reactor
-------------------------------------------------------------------------------

Copyright (c) 2011-2017 Pivotal Software Inc, All Rights Reserved.

Non-Blocking Reactive Foundation for the JVM (https://github.com/reactor/
reactor-core)
reactor-scala-extensions (https://github.com/reactor/reactor-scala-
extensions)
Reactive Streams Netty driver (https://github.com/reactor/reactor-netty)
```

```
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for JavaBeans Activation Framework API
-------------------------------------------------------------------------------

JavaBeans Activation Framework API jar (https://github.com/eclipse-ee4j/jaf/
jakarta.activation-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

jakarta.xml.bind-api (https://github.com/eclipse-ee4j/jaxb-api/
jakarta.xml.bind-api)
```

```
Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

Stax2 API (http://github.com/FasterXML/stax2-api)
Copyright (c) 2008 FasterXML LLC info@fasterxml.com

This source code is licensed under standard BSD license, which is compatible
 with all Free and Open Software (OSS) licenses.


License notice for HdrHistogrami
-------------------------------------------------------------------------------
HdrHistogram (http://hdrhistogram.github.io/HdrHistogram/)

The code in this repository code was Written by Gil Tene, Michael Barker,
and Matt Warren, and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/

For users of this code who wish to consume it under the "BSD" license
rather than under the public domain or CC0 contribution text mentioned
above, the code found under this directory is *also* provided under the
following license (commonly referred to as the BSD 2-Clause License). This
license does not detract from the above stated release of the code into
the public domain, and simply represents an additional license granted by
the Author.
```

```
--------------------------------------------------------------------------------
** Beginning of "BSD 2-Clause License" text. **

 Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
 Copyright (c) 2014 Michael Barker
 Copyright (c) 2014 Matt Warren
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.


License notice for LatencyUtils
--------------------------------------------------------------------------------

LatencyUtils (http://latencyutils.github.io/LatencyUtils/)

  * This code was Written by Gil Tene of Azul Systems, and released to the
  * public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/

 For users of this code who wish to consume it under the "BSD" license
 rather than under the public domain or CC0 contribution text mentioned
 above, the code found under this directory is *also* provided under the
 following license (commonly referred to as the BSD 2-Clause License). This
 license does not detract from the above stated release of the code into
 the public domain, and simply represents an additional license granted by
 the Author.

 --------------------------------------------------------------------------------
 ** Beginning of "BSD 2-Clause License" text. **

  Copyright (c) 2012, 2013, 2014 Gil Tene
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
```

```
  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
  THE POSSIBILITY OF SUCH DAMAGE.


License notice for reactive-streams
-------------------------------------------------------------------------------

reactive-streams (http://www.reactive-streams.org/)

Copyright Statement for Contributions to the Reactive Streams Project
======================================================================

I hereby represent that all present, past and future contributions I make to
the Reactive Streams project (which includes all repositories owned by the
“reactive-streams” github organization) are governed by the Creative Commons
Zero 1.0 Universal copyright statement, placing my contributions in the
 public
domain. This entails that to the extent possible under law I waive all
copyright and related or neighboring rights to the code or documents I
contribute. I also represent that I have the authority to perform the above
waiver with respect to the entirety of my contributions.

The text of the copyright statement is included in the COPYING file at the
 root
of the reactive-streams repository at
https://github.com/reactive-streams/reactive-streams-jvm/blob/master/
COPYING.

Underwriting parties:

github name    | Real Name, Email Address used for git commits, Company
---------------
+-------------------------------------------------------------------------------
rkuhn          | Roland Kuhn, rk@rkuhn.info, Typesafe Inc.
benjchristensen| Ben Christensen, benjchristensen@gmail.com, Netflix Inc.
viktorklang    | Viktor Klang, viktor.klang@gmail.com, Typesafe Inc.
smaldini       | Stephane Maldini, stephane.maldini@gmail.com, Pivotal
 Software Inc.
savulchik      | Stanislav Savulchik, s.savulchik@gmail.com
ktoso          | Konrad Malawski, konrad.malawski@project13.pl, Typesafe
 Inc.
ouertani       | Slim Ouertani, ouertani@gmail.com
2m             | Martynas Mickevičius, mmartynas@gmail.com, Typesafe Inc.
ldaley         | Luke Daley, luke.daley@gradleware.com, Gradleware Inc.
colinrgodsey   | Colin Godsey, crgodsey@gmail.com, MediaMath Inc.
davidmoten     | Dave Moten, davidmoten@gmail.com
briantopping   | Brian Topping, brian.topping@gmail.com, Mauswerks LLC
rstoyanchev    | Rossen Stoyanchev, rstoyanchev@pivotal.io, Pivotal
```

```
BjornHamels    | Björn Hamels, bjorn@hamels.nl
JakeWharton    | Jake Wharton, jakewharton@gmail.com
anthonyvdotbe  | Anthony Vanelverdinghe, anthonyv.be@outlook.com
seratch        | Kazuhiro Sera, seratch@gmail.com, SmartNews, Inc.
akarnokd       | David Karnok, akarnokd@gmail.com
egetman        | Evgeniy Getman, getman.eugene@gmail.com
patriknw       | Patrik Nordwall, patrik.nordwall@gmail.com, Lightbend Inc
angelsanz      | Ángel Sanz, angelsanz@users.noreply.github.com
shenghaiyang   | 盛海洋, shenghaiyang@aliyun.com
kiiadi         | Kyle Thomson, kylthoms@amazon.com, Amazon.com
jroper         | James Roper, james@jazzy.id.au, Lightbend Inc.
olegdokuka     | Oleh Dokuka, shadowgun@.i.ua, Netifi Inc.
Scottmitch     | Scott Mitchell, scott_mitchell@apple.com, Apple Inc.
retronym       | Jason Zaugg, jzaugg@gmail.com, Lightbend Inc.

Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with
this code has waived all copyright and related or neighboring
rights to this code.

You should have received a copy of the CC0 legalcode along with this
work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.

License notice for Bouncy Castle
--------------------------------------------------------------------------------

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated
documentation files (the "Software"), to deal in the Software without
 restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and
to permit persons to whom the Software is furnished to do so, subject to the
 following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


License notice for KeePassJava2
--------------------------------------------------------------------------------

Copyright 2015 Jo Rabin

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
```

```
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

License notice for openkeepass
-------------------------------------------------------------------------------

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

Openkeepass License Link: https://github.com/cternes/openkeepass/blob/
master/LICENSE.txt
-------------------------------------------------------------------------------------------

License notice for Apache Commons
-------------------------------------------------------------------------------

Copyright 2002-2019 The Apache Software Foundation

commons-codec (https://github.com/apache/commons-codec)
commons-text (https://github.com/apache/commons-text)
commons-lang (https://github.com/apache/commons-lang)
commons-collections (https://github.com/apache/commons-collections)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express or implied.
See the License for the specific language governing permissions and
 limitations under the License.

---------separator---------

TOP-LEVEL LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Microsoft / Component(s): DeepSpeed 0.13.4

```
===================================Third Party
 Info===================================
deepspeed
Apache Software License 2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
===================================Fourth Party
 Info===================================
##########################################
Fourth party public dependencies
##########################################
annotated-types
deepspeed
filelock
fsspec
hjson
jinja2
markupsafe
mpmath
networkx
ninja
numpy
packaging
psutil
py-cpuinfo
pydantic
pydantic-core
pynvml
sympy
torch
tqdm
typing-extensions
---------------------------------------------
annotated-types
MIT License
The MIT License (MIT)
```

```
Copyright (c) 2022 the contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
filelock
The Unlicense (Unlicense)
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

----------------------------------------------
fsspec
BSD License
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------
hjson
Academic Free License (AFL); MIT License
hjson (based on simplejson) is dual-licensed software. It is available under
 the terms
of the MIT license, or the Academic Free License version 2.1. The full
text of each license agreement is included below. This code is also
licensed to the Python Software Foundation (PSF) under a Contributor
Agreement.

MIT License
===========

Copyright (c) 2006 Bob Ippolito
Copyright (c) 2015 Christian Zangl

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

Academic Free License v. 2.1
============================

Copyright (c) 2006 Bob Ippolito.  All rights reserved.
Copyright (c) 2015 Christian Zangl

This Academic Free License (the "License") applies to any original work of
 authorship (the "Original Work") whose owner (the "Licensor") has placed
 the following notice immediately following the copyright notice for the
 Original Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide,
 royalty-free, non-exclusive, perpetual, sublicenseable license to do the
 following:

a) to reproduce the Original Work in copies;

b) to prepare derivative works ("Derivative Works") based upon the Original
 Work;

c) to distribute copies of the Original Work and Derivative Works to the
 public;

d) to perform the Original Work publicly; and

e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide,
 royalty-free, non-exclusive, perpetual, sublicenseable license, under
 patent claims owned or controlled by the Licensor that are embodied in the
 Original Work as furnished by the Licensor, to make, use, sell and offer
 for sale the Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred
 form of the Original Work for making modifications to it and all available
 documentation describing how to modify the Original Work. Licensor hereby
 agrees to provide a machine-readable copy of the Source Code of the
 Original Work along with each copy of the Original Work that Licensor
 distributes. Licensor reserves the right to satisfy this obligation by
 placing a machine-readable copy of the Source Code in an information
 repository reasonably calculated to permit inexpensive and convenient
 access by You for as long as Licensor continues to distribute the Original
 Work, and by publishing the address of that information repository in
 a notice immediately following the copyright notice that applies to the
 Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the
 names of any contributors to the Original Work, nor any of their trademarks
 or service marks, may be used to endorse or promote products derived
 from this Original Work without express prior written permission of the
 Licensor. Nothing in this License shall be deemed to grant any rights to
 trademarks, copyrights, patents, trade secrets or any other intellectual
 property of Licensor except as expressly stated herein. No patent license
 is granted to make, use, sell or offer to sell embodiments of any patent
 claims other than the licensed claims defined in Section 2. No right is
 granted to the trademarks of Licensor even if such marks are included
 in the Original Work. Nothing in this License shall be interpreted to
```

```
 prohibit Licensor from licensing under different terms from this License
 any Original Work that Licensor otherwise would have a right to license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative
 Works that You create, all copyright, patent or trademark notices from
 the Source Code of the Original Work, as well as any notices of licensing
 and any descriptive text identified therein as an "Attribution Notice."
 You must cause the Source Code for any Derivative Works that You create
 to carry a prominent Attribution Notice reasonably calculated to inform
 recipients that You have modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that
 the copyright in and to the Original Work and the patent rights granted
 herein by Licensor are owned by the Licensor or are sublicensed to You
 under the terms of this License with the permission of the contributor(s)
 of those copyrights and patent rights. Except as expressly stated in
 the immediately proceeding sentence, the Original Work is provided under
 this License on an "AS IS" BASIS and WITHOUT WARRANTY, either express or
 implied, including, without limitation, the warranties of NON-INFRINGEMENT,
 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY OF THE ORIGINAL WORK IS WITH YOU. This DISCLAIMER OF WARRANTY
 constitutes an essential part of this License. No license to Original Work
 is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal
 theory, whether in tort (including negligence), contract, or otherwise,
 shall the Licensor be liable to any person for any direct, indirect,
 special, incidental, or consequential damages of any character arising as
 a result of this License or the use of the Original Work including, without
 limitation, damages for loss of goodwill, work stoppage, computer failure
 or malfunction, or any and all other commercial damages or losses. This
 limitation of liability shall not apply to liability for death or personal
 injury resulting from Licensor's negligence to the extent applicable law
 prohibits such limitation. Some jurisdictions do not allow the exclusion
 or limitation of incidental or consequential damages, so this exclusion and
 limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the Original
 Work or a Derivative Work, You must make a reasonable effort under the
 circumstances to obtain the express assent of recipients to the terms of
 this License. Nothing else but this License (or another written agreement
 between Licensor and You) grants You permission to create Derivative Works
 based upon the Original Work or to exercise any of the rights granted
 in Section 1 herein, and any attempt to do so except under the terms of
 this License (or another written agreement between Licensor and You) is
 expressly prohibited by U.S. copyright law, the equivalent laws of other
 countries, and by international treaty. Therefore, by exercising any of the
 rights granted to You in Section 1 herein, You indicate Your acceptance of
 this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate
 automatically and You may no longer exercise any of the rights granted
 to You by this License as of the date You commence an action, including a
 cross-claim or counterclaim, against Licensor or any licensee alleging that
 the Original Work infringes a patent. This termination provision shall not
 apply for an action alleging patent infringement by combinations of the
 Original Work with other software or hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to
 this License may be brought only in the courts of a jurisdiction wherein
 the Licensor resides or in which Licensor conducts its primary business,
 and under the laws of that jurisdiction excluding its conflict-of-law
```

```
 provisions. The application of the United Nations Convention on Contracts
 for the International Sale of Goods is expressly excluded. Any use of the
 Original Work outside the scope of this License or after its termination
 shall be subject to the requirements and penalties of the U.S. Copyright
 Act, 17 U.S.C. § 101 et seq., the equivalent laws of other countries, and
 international treaty. This section shall survive the termination of this
 License.

12) Attorneys Fees. In any action to enforce the terms of this License
 or seeking damages relating thereto, the prevailing party shall be
 entitled to recover its costs and expenses, including, without limitation,
 reasonable attorneys' fees and costs incurred in connection with such
 action, including any appeal of such action. This section shall survive the
 termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning
 the subject matter hereof. If any provision of this License is held to
 be unenforceable, such provision shall be reformed only to the extent
 necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License,
 whether in upper or lower case, means an individual or a legal entity
 exercising rights under, and complying with all of the terms of, this
 License. For legal entities, "You" includes any entity that controls, is
 controlled by, or is under common control with you. For purposes of this
 definition, "control" means (i) the power, direct or indirect, to cause the
 direction or management of such entity, whether by contract or otherwise,
 or (ii) ownership of fifty percent (50%) or more of the outstanding shares,
 or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not otherwise
 restricted or conditioned by this License or by law, and Licensor promises
 not to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights
 reserved. Permission is hereby granted to copy and distribute this license
 without modification. This license may not be modified without the express
 written permission of its copyright owner.

----------------------------------------------
jinja2
BSD License
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
markupsafe
BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
mpmath
BSD License
Copyright (c) 2005-2021 Fredrik Johansson and mpmath contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
```

```
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

----------------------------------------------
networkx
BSD License
NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2023, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
ninja
Apache Software License; BSD License
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.
```

```
"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."
```

```
"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
```

```
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
```

```
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------------------------------------------
numpy
BSD License
Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
```

```
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt


Note that the following files are vendored in the repository and sdist but
 not
installed in built numpy packages:

Name: Meson
Files: vendored-meson/meson/*
License: Apache 2.0
  For license text, see vendored-meson/meson/COPYING

Name: spin
Files: .spin/cmds.py
License: BSD-3
  For license text, see .spin/LICENSE

----
```

```
This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: numpy.libs/libopenblas*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: numpy.libs/libopenblas*.so
Description: bundled in OpenBLAS
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause-Attribution
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
```

```
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: GCC runtime library
Files: numpy.libs/libgfortran*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran
License: GPL-3.0-with-GCC-exception
  Copyright (C) 2002-2017 Free Software Foundation, Inc.

  Libgfortran is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 3, or (at your option)
  any later version.

  Libgfortran is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  Under Section 7 of GPL version 3, you are granted additional
  permissions described in the GCC Runtime Library Exception, version
  3.1, as published by the Free Software Foundation.

  You should have received a copy of the GNU General Public License and
  a copy of the GCC Runtime Library Exception along with this program;
  see the files COPYING3 and COPYING.RUNTIME respectively.  If not, see
  <http://www.gnu.org/licenses/>.

----

Full text of license texts referred to above follows (that they are
listed below does not necessarily imply the conditions apply to the
present binary release):
```

```
----

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by
```

```
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.

----

                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
```

```
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
```

```
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.
```

```
  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
```

```
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
```

```
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or
```

```
    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.
```

```
  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.
```

```
  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.
```

```
  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
```

```
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

Name: libquadmath
Files: numpy.libs/libquadmath*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
License: LGPL-2.1-or-later

    GCC Quad-Precision Math Library
    Copyright (C) 2010-2019 Free Software Foundation, Inc.
    Written by Francois-Xavier Coudert  <fxcoudert@gcc.gnu.org>

    This file is part of the libquadmath library.
    Libquadmath is free software; you can redistribute it and/or
    modify it under the terms of the GNU Library General Public
    License as published by the Free Software Foundation; either
```

```
    version 2.1 of the License, or (at your option) any later version.

    Libquadmath is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.
    https://www.gnu.org/licenses/old-licenses/lgpl-2.1.html

----------------------------------------------
packaging
Apache Software License; BSD License
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

----------------------------------------------
psutil
BSD License
BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
py-cpuinfo
MIT License
The MIT License (MIT)
```

```
Copyright (c) 2014-2022 Matthew Brennan Jones
 <matthew.brennan.jones@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
pydantic
MIT License
The MIT License (MIT)

Copyright (c) 2017 to present Pydantic Services Inc. and individual
 contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
pydantic-core


----------------------------------------------
pynvml
```

```
BSD License
Copyright (c) 2011-2021, NVIDIA Corporation.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of staged-recipes nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
sympy
BSD License
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
```

```
--------------------------------------------------------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:

Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:

Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
```

```
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-------------------------------------------------------------------------------

The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
torch
BSD License
UNKNOWN
----------------------------------------------
tqdm
MIT License; Mozilla Public License 2.0 (MPL 2.0)
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
typing-extensions

A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
```

```
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
```

```
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
```

```
----------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
```

```
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
-------------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
----------------------------------------------
```

Provider: Microsoft / Component(s): Microsoft Graph SDK for Java 5.50.0

```
------------------------------- Top-level license --------------------------
MIT License

Copyright (c) 2018 Microsoft Graph

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------------------------- Copyright notices --------------------------
Copyright (c) Microsoft Corporation.

------------------------------- Third party notices
 --------------------------
This file is based on or incorporates material from the projects listed
 below
(Third Party IP). The original copyright notice and the license under which
Microsoft received such Third Party IP, are set forth below. Such licenses
 and
notices are provided for informational purposes only. Microsoft licenses the
Third Party IP to you under the licensing terms for the Microsoft product.
Microsoft reserves all other rights not expressly granted under this
 agreement,
whether by implication, estoppel or otherwise.

Gson
Copyright 2008-2011 Google Inc.

Provided for Informational Purposes Only

Apache 2.0 License

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License. You may obtain a copy of
 the
License at http://www.apache.org/licenses/LICENSE-2.0

THIS CODE IS PROVIDED ON AN *AS IS* BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF
ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY
 IMPLIED
WARRANTIES OR CONDITIONS OF TITLE, FITNESS FOR A PARTICULAR PURPOSE,
MERCHANTABLITY OR NON-INFRINGEMENT.

See the Apache Version 2.0 License for specific language governing
 permissions
and limitations under the License.

---------------------------- Microsoft APIs License and Guidelines
----------------------

a) Microsoft APIs License Subject to your compliance with all of the API
 Terms,
Microsoft grants you a limited, non-exclusive, non-assignable, non-
transferable,
revocable license to use the Microsoft APIs to develop, test, and support
 your
```

```
Application, and allow Customers to use your integration of the Microsoft
 APIs
within your Application. You may use the Microsoft APIs only as expressly
 permitted
in these API Terms. Violation of these API Terms may result in the
 suspension or
termination of your use of the Microsoft APIs.

b) Microsoft APIs Guidelines

You may NOT:

    Use the Microsoft APIs in a way that could impair, harm or damage
 Microsoft, the
Microsoft APIs, any Microsoft Offering, or anyone's use of the Microsoft
 APIs or
any Microsoft Offerings;
    Use the Microsoft APIs to disrupt, interfere with, or attempt to gain
unauthorized access to services, servers, devices, or networks connected to
 or
which can be accessed via the Microsoft APIs;
    Use the Microsoft APIs, or any information accessed or obtained using
 the
Microsoft APIs, for the purpose of migrating Customers away from a
 Microsoft
Offering, except in connection with use of the Microsoft APIs by your
Application or unless expressly permitted by Microsoft pursuant to a duly
executed written agreement;
    Scrape, build databases or otherwise create copies of any data accessed
 or
obtained using the Microsoft APIs, except as necessary to enable an
 intended
usage scenario for your Application;
    Request from the Microsoft APIs more than the minimum amount of data, or
 more
than the minimum permissions to the types of data, that your Application
 needs
for Customers to use the intended functionality of your Application;
    Use an unreasonable amount of bandwidth, or adversely impact the
 stability of
the Microsoft APIs or the behavior of other apps using the Microsoft APIs;
    Attempt to circumvent the limitations Microsoft sets on your use of the
Microsoft APIs. Microsoft sets and enforces limits on your use of the
 Microsoft
APIs (e.g., limiting the number of API requests that you may make or the
 number
of users you may serve), in its sole discretion;
    Use Microsoft APIs in any manner that works around any technical
 limitations of
the Microsoft APIs or of the accessed Microsoft Offering, or reverse
 engineer,
decompile or disassemble the Microsoft APIs, except and only to the extent
 that
applicable law expressly permits, despite this limitation;
    Use the Microsoft APIs, or any data obtained using the Microsoft APIs,
 to
conduct performance testing of a Microsoft Offering unless expressly
 permitted
by Microsoft pursuant to a duly executed written agreement;
    Use the Microsoft APIs, or any data obtained using the Microsoft APIs,
 to
identify, exploit or publicly disclose any potential security
 vulnerabilities;
```

```
    Request, use or make available any data obtained using the Microsoft
 APIs
outside any permissions expressly granted by Customers in connection with
 using
your Application;
    Use or transfer any data accessed or obtained using the Microsoft APIs,
including any data aggregated, anonymized or derived from that data
(collectively the "Microsoft APIs Data") for advertising or marketing
 purposes
including (i) targeting ads, or (ii) serving ads. For purposes of clarity,
 this
prohibition on using Microsoft APIs Data for advertising or marketing
 purposes
does not extend to using other data, such as (i) the number of users of
 your
Application, (ii) a user identifier you independently receive from a user
 (e.g.,
an email address you receive when a user enrolls to use your Application, a
device identifier, or an advertising identifier), or (iii) a product or
 service
identifier that identifies a Microsoft Offering;
    Make your Application available for use in a manner that circumvents the
 need
for users to obtain a valid license to the Microsoft application or service
 that
is accessed through the Microsoft APIs;
    Redistribute or resell, or sublicense access to, the Microsoft APIs, any
 data
obtained using the Microsoft APIs, or any other Microsoft Offering accessed
through the Microsoft APIs; or
    Misrepresent expressly, by omission, or implication, the need for users
 to
obtain a valid license to the Microsoft application or service that is
 accessed
through the Microsoft APIs;
    Falsify or alter any unique referral identifier in, or assigned to an
Application, or otherwise obscure or alter the source of queries coming from
 an
Application to hide a violation of this agreement; or
    Use the Microsoft APIs or allow any user to use the Application in a way
 that
violates applicable law, including:
        Illegal activities, such as child pornography, gambling, piracy,
 violating
copyright, trademark or other intellectual property laws.
        Intending to exploit minors in any way.
        Accessing or authorizing anyone to access the Microsoft APIs from
 an
embargoed country as prohibited by the U.S. government.
        Threatening, stalking, defaming, defrauding, degrading, victimizing
 or
intimidating anyone for any reason.
        Violating applicable privacy laws and regulations.
    Use the Microsoft APIs in a way that could create, in Microsoft's sole
discretion and judgment, an unreasonable risk to Customers from a security
 or
privacy perspective.

c) Accessing the Exchange and Outlook Services through Microsoft email
 protocols and
APIs

Unless you have use permissions expressly and specifically granted by
 Customers in
```

```
connection with using your Application, you may not use Microsoft email
 protocols
and APIs for any purpose other than:

    syncing email messages, calendar events, and contacts, or
    backing up email messages, calendar events, and contacts.

d) Accessing the Microsoft Intune Service through a Microsoft API

When your Application or services access an Intune API in Microsoft Graph
 using a
Post command, for example, such as documented at https://
learn.microsoft.com/graph,
you must include:

    In your Application and services' license terms, a statement that
 certain
functionalities are enabled by accessing Microsoft Intune® through the
 Microsoft
API and use of your Application and accompanying services does not remove
 the
need for users to have a valid license for their use of the Microsoft
 Intune®
service.
    In your Application and services' marketing material and product
 documentation
that references functionality enabled by your Application or service's
 access to
Microsoft Intune® through the Microsoft API:
        The attribution "Microsoft Intune® App Protection Policies" displayed
 in a
manner consistent with the Microsoft Trademark & Brand Guidelines, and
        A statement that use of your Application and services does not
 remove the
need for users to maintain a valid license for their use of the Microsoft
Intune® service.
    In your Application's user interface or console that displays commands
 for
functionality enabled by the Microsoft API for Intune, include the
 attribution
"Microsoft Intune® App Protection Policies" in a conspicuous place on the
console or UI. The attribution must be in a manner consistent with the
 Microsoft
Trademark & Brand Guidelines.

e) Accessing Microsoft OneDrive through a Microsoft API

When your Application or services access a Microsoft API for Microsoft
 OneDrive,
other than the work files of a user or work files created on behalf of a
 user, you
may not enable storage of system data in Microsoft OneDrive, the systems
 data
including (i) computer system back-up data, (ii) team, organization, or
 departmental
level data, or (iii) data related to any assignment of a per user license to
 a team,
organization, department, or other non-human entity. Such systems data can
 be stored
in Microsoft SharePoint shared libraries, which is a solution for more
 advanced
content management and collaboration, including storing and managing files,
communications, and intranet sites across a team or organization.
```

```
f) Accessing the Microsoft Yammer Service through a Microsoft API

When your Application or services access a Microsoft API for Yammer, you
 must adhere
to the following requirements:

    Contact and Cooperation. You (or the name of the contact you gave to
 Microsoft
when you applied for your application key if it's not you) must be reachable
 at
all times for privacy and security questions or concerns. You can change
 this
name or contact by signing up for a new application key, and providing the
correct contact information and using the new application key instead.
    Reporting. In addition to the vulnerabilities and data breach
 requirements of
section 4. Security, you must promptly report any security deficiencies in
 or
intrusions to your Application or services systems that you discover to
Microsoft in writing via email to api@yammer-inc.com. You will work with
Microsoft to immediately correct any security deficiency and will
 disconnect
immediately any intrusions or intruder. In the event of any such security
deficiency or intrusion, you will make no public statements (e.g., press,
 blogs,
social media, bulletin boards, etc.) without prior written and express
permission from Microsoft in each instance.
    Branding. If your product or service uses or is based upon accessing
 the
Microsoft Yammer service through a Microsoft API, and you wish to include
 Yammer
branding or logos, please contact us at api@yammer-inc.com. Absent express
written permission from us, you may not use Yammer branding, except as
 outlined
in section 3. f) 4. below.
    Attribution. The images provided to you through the accessing the
 Microsoft
Yammer service through a Microsoft API may contain the trade names,
 trademarks,
service marks, logos, domain names, and other distinctive brand features of
Microsoft and its partners. You may not delete or in any manner alter these
trade names, trademarks, service marks, logos, domain names, and other
distinctive brand features. You agree to maintain, and not to remove,
 modify,
obscure or alter, any link or notices appearing on any image provided
 through
the Service.

---------------------------- Fourth-party information ----------------------
--------------------------------(separator)---------------------------------
-------- Dependency
com.microsoft.graph:microsoft-graph-core:jar

-------- License Type
MIT License

-------- Copyrights
Copyright (c) Microsoft Corporation.

-------- Full License Text
MIT License

Copyright (c) 2018 Microsoft Graph
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



--------------------------------(separator)--------------------------------
-------- Dependency
com.azure:azure-core:jar

-------- License Type
MIT License

-------- Full License Text
The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------- Copyrights
NOTICES AND INFORMATION
Do Not Translate or Localize

This software incorporates material from third parties. Microsoft makes
 certain
```

```
open source code available at https://3rdpartysource.microsoft.com, or you
 may
send a check or money order for US $5.00, including the product name, the
 open
source component name, and version number, to:

Source Code Compliance Team
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
USA

Notwithstanding any other terms, you may reverse engineer this software to
 the
extent required to debug changes to any libraries licensed under the GNU
 Lesser
General Public License.

--------------------------------------------------------------------------------

Azure SDK for Java uses third-party libraries or other resources that may be
distributed under licenses different than the Azure SDK for Java software.

In the event that we accidentally failed to list a required notice, please
bring it to our attention. Post an issue or email us:

           azjavasdkhelp@microsoft.com

The attached notices are provided for information only.



License notice for Hamcrest
--------------------------------------------------------------------------------

The 3-Clause BSD License

Copyright (c) 2000-2015 www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of
conditions and the following disclaimer. Redistributions in binary form
 must
reproduce
the above copyright notice, this list of conditions and the following
 disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used
 to endorse
or promote products derived from this software without specific prior
 written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
```

```
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN
ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
DAMAGE.

License notice for Slf4j API
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Slf4j Simple
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
License notice for Guava (https://github.com/google/guava)
------------------------------------------------------------------------------

Copyright (C) 2010 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this
file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND,
either express
or implied. See the License for the specific language governing permissions
 and
limitations under
the License.



License notice for Netty
------------------------------------------------------------------------------

  Copyright 2012,2021 The Netty Project
  Copyright 2014 Twitter, Inc.
  Copyright (c) 2011, Joe Walnes and contributors
  Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>
  Copyright (c) 2004-2011 QOS.ch
--------------------------------------------

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
```

```
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/
--------------------------------------------------------------------------------
This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.
```

```
Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/
--------------------------------------------------------------------------------
This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
(BSD License: https://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.

* Neither the name of the Webbit nor the names of
  its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit
--------------------------------------------------------------------------------
This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
/*
 * Copyright (c) 2004-2007 QOS.ch
 * All rights reserved.
 *
 * Permission is hereby granted, free  of charge, to any person obtaining
 * a  copy  of this  software  and  associated  documentation files  (the
```

```
 * "Software"), to  deal in  the Software without  restriction, including
 * without limitation  the rights to  use, copy, modify,  merge, publish,
 * distribute,  sublicense, and/or sell  copies of  the Software,  and to
 * permit persons to whom the Software  is furnished to do so, subject to
 * the following conditions:
 *
 * The  above  copyright  notice  and  this permission  notice  shall  be
 * included in all copies or substantial portions of the Software.
 *
 * THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 * EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 * MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 * LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 * OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 * WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */
  * HOMEPAGE:
    * https://www.slf4j.org/
-------------------------------------------------------------------------------------
-----------
This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)

  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/
-------------------------------------------------------------------------------------
-----
This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2
 Project

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/
--------------------------------------------------------------------------------
-------------------
This product contains a modified portion of 'libdivsufsort', a C API library
 to
construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort
--------------------------------------------------------------------------------
------------
This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools
--------------------------------------------------------------------------------
----------------
This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights
 reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
 distribution.

  3. The names of the authors may not be used to endorse or promote products
     derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/
--------------------------------------------------------------------------------
---------------
This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
 under
the License.
  * HOMEPAGE:
    * https://github.com/ning/compress
--------------------------------------------------------------------------------
This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java
--------------------------------------------------------------------------------
This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jponge/lzma-java
```

```
--------------------------------------------------------------------------------
----------------
This product optionally depends on 'zstd-jni', a zstd-jni Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.zstd-jni.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/luben/zstd-jni

--------------------------------------------------------------------------------
----------------
This product contains a modified portion of 'jfastlz', a Java port of
 FastLZ
compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/
--------------------------------------------------------------------------------
------------------
This product contains a modified portion of and optionally depends on
 'Protocol
Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc.  All rights reserved.
https://developers.google.com/protocol-buffers/

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
  * HOMEPAGE:
    * https://github.com/google/protobuf
-------------------------------------------------------------------------------------
-----------
This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
                          (https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://www.bouncycastle.org/
-------------------------------------------------------------------------------------
----------------
This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:
```

```
  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/google/snappy
--------------------------------------------------------------------------------
------------------
This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling
--------------------------------------------------------------------------------
-----------------------
This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/google/caliper
--------------------------------------------------------------------------------
--------------------
This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/logging/
--------------------------------------------------------------------------------
--------------
This product optionally depends on 'Apache Log4J', a logging framework,
 which
```

```
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://logging.apache.org/log4j/
-------------------------------------------------------------------------------------
------------
This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
This copy of Aalto XML processor is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

https://www.apache.org/licenses/

A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases,
that file should be located next to this file: in source distribution
the location should be "release-notes/asl"; and in jar "META-INF/"
  * HOMEPAGE:
    * http://wiki.fasterxml.com/AaltoHome
-------------------------------------------------------------------------------------
-------
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/twitter/hpack

-------------------------------------------------------------------------------------
--------------
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/
--------------------------------------------------------------------------------
-------------------
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:

  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/
--------------------------------------------------------------------------------
-----------------
This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/

--------------------------------------------------------------------------------
----------------------
This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides
an easy way to ensure a user has everything necessary to run the Maven
 build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper
```

```
-----------------------------------------------------------------------------------------
-----------------------
This product contains the dnsinfo.h header file, that provides a way to
 retrieve the
system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
/*
 * Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.
 *
 * @APPLE_LICENSE_HEADER_START@
 *
 * This file contains Original Code and/or Modifications of Original Code
 * as defined in and that are subject to the Apple Public Source License
 * Version 2.0 (the 'License'). You may not use this file except in
 * compliance with the License. Please obtain a copy of the License at
 * https://www.opensource.apple.com/apsl/ and read it before using this
 * file.
 *
 * The Original Code and all software distributed under the License are
 * distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
 * EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
 * INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
 * Please see the License for the specific language governing rights and
 * limitations under the License.
 *
 * @APPLE_LICENSE_HEADER_END@
 */
  * HOMEPAGE:
    *
https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/
dnsinfo.h
-----------------------------------------------------------------------------------------
--------------------------
This product optionally depends on 'Brotli4j', Brotli compression and
decompression for Java., which can be obtained at:

  * LICENSE:
    * license/LICENSE.brotli4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/hyperxpro/Brotli4j
-----------------------------------------------------------------------------------------
--------------------------
End of License notice for Netty



License notice for JUG Java Uuid Generator
-----------------------------------------------------------------------------------------

JUG Java Uuid Generator

Copyright (c) 2002- Tatu Saloranta, tatu.saloranta@iki.fi

Licensed under the License specified in the file LICENSE which is
included with the source code.
You may not use this file except in compliance with the License.

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
```

```
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


License notice for Jackson
-------------------------------------------------------------------------------

Copyright (c) 2007 Jackson Project

Jackson-annotations (http://github.com/FasterXML/jackson
Jackson-core (https://github.com/FasterXML/jackson-core
jackson-databind (http://github.com/FasterXML/jackson
Jackson-dataformat-XML (https://github.com/FasterXML/jackson-dataformat-xml)
Jackson datatype: JSR310
(https://github.com/FasterXML/jackson-modules-java8/jackson-datatype-jsr310)
Jackson module: Afterburner (https://github.com/FasterXML/jackson-modules-
base)
Jackson module: JAXB Annotations (https://github.com/FasterXML/jackson-
modules-base)
Woodstox (https://github.com/FasterXML/woodstox)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this
file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND,
either express
or implied. See the License for the specific language governing permissions
 and
limitations under
the License.


License notice for Metrics Core
-------------------------------------------------------------------------------

Copyright (c) 2010-2013 Coda Hale, Yammer.com, 2014-2020 Dropwizard Team

Metrics Core (https://github.com/dropwizard/metrics)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this
file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND,
either express
or implied. See the License for the specific language governing permissions
 and
limitations under
```

```
the License.

License notice for micrometer-core
-------------------------------------------------------------------------------

Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.

micrometer-core (https://github.com/micrometer-metrics/micrometer)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this
file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND,
either express
or implied. See the License for the specific language governing permissions
 and
limitations under
the License.


License notice for project Reactor
-------------------------------------------------------------------------------

Copyright (c) 2011-2017 Pivotal Software Inc, All Rights Reserved.

Non-Blocking Reactive Foundation for the JVM
(https://github.com/reactor/reactor-core)
reactor-scala-extensions (https://github.com/reactor/reactor-scala-
extensions)
Reactive Streams Netty driver (https://github.com/reactor/reactor-netty)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this
file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND,
either express
or implied. See the License for the specific language governing permissions
 and
limitations under
the License.


License notice for JavaBeans Activation Framework API
-------------------------------------------------------------------------------

JavaBeans Activation Framework API jar
(https://github.com/eclipse-ee4j/jaf/jakarta.activation-api)
```

```
Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or
other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors
may be used to
endorse or promote products derived from this software without specific
 prior
written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF
MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY
THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE)
ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF
SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

jakarta.xml.bind-api (https://github.com/eclipse-ee4j/jaxb-api/
jakarta.xml.bind-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
```

```
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or
other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors
may be used to
endorse or promote products derived from this software without specific
 prior
written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF
MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY
THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE)
ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF
SUCH DAMAGE.



License notice for Stax2 API
-------------------------------------------------------------------------------

Stax2 API (http://github.com/FasterXML/stax2-api)
Copyright (c) 2008 FasterXML LLC info@fasterxml.com

This source code is licensed under standard BSD license, which is compatible
 with
all Free and Open Software (OSS) licenses.

-------- Full License Text
This copy of Stax2 API is licensed under the
Simplified BSD License (also known as "2-clause BSD", or "FreeBSD License")
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.opensource.org/licenses/bsd-license.php

with details of:

<COPYRIGHT HOLDER> = FasterXML.com
<YEAR> = 2010-
```

```
License notice for HdrHistogrami
--------------------------------------------------------------------------------
HdrHistogram (http://hdrhistogram.github.io/HdrHistogram/)

The code in this repository code was Written by Gil Tene, Michael Barker,
and Matt Warren, and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/

For users of this code who wish to consume it under the "BSD" license
rather than under the public domain or CC0 contribution text mentioned
above, the code found under this directory is *also* provided under the
following license (commonly referred to as the BSD 2-Clause License). This
license does not detract from the above stated release of the code into
the public domain, and simply represents an additional license granted by
the Author.

-------------------------------------------------------------------------------
** Beginning of "BSD 2-Clause License" text. **

 Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
 Copyright (c) 2014 Michael Barker
 Copyright (c) 2014 Matt Warren
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.


License notice for LatencyUtils
--------------------------------------------------------------------------------

LatencyUtils (http://latencyutils.github.io/LatencyUtils/)

  * This code was Written by Gil Tene of Azul Systems, and released to the
  * public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/

 For users of this code who wish to consume it under the "BSD" license
 rather than under the public domain or CC0 contribution text mentioned
 above, the code found under this directory is *also* provided under the
 following license (commonly referred to as the BSD 2-Clause License). This
 license does not detract from the above stated release of the code into
 the public domain, and simply represents an additional license granted by
```

```
 the Author.

 ------------------------------------------------------------------------------
 ** Beginning of "BSD 2-Clause License" text. **

  Copyright (c) 2012, 2013, 2014 Gil Tene
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
  THE POSSIBILITY OF SUCH DAMAGE.


License notice for reactive-streams
-------------------------------------------------------------------------------

reactive-streams (http://www.reactive-streams.org/)

Copyright Statement for Contributions to the Reactive Streams Project
======================================================================

I hereby represent that all present, past and future contributions I make to
the Reactive Streams project (which includes all repositories owned by the
“reactive-streams” github organization) are governed by the Creative Commons
Zero 1.0 Universal copyright statement, placing my contributions in the
 public
domain. This entails that to the extent possible under law I waive all
copyright and related or neighboring rights to the code or documents I
contribute. I also represent that I have the authority to perform the above
waiver with respect to the entirety of my contributions.

The text of the copyright statement is included in the COPYING file at the
 root
of the reactive-streams repository at
https://github.com/reactive-streams/reactive-streams-jvm/blob/master/
COPYING.

Underwriting parties:

github name    | Real Name, Email Address used for git commits, Company
---------------
+-----------------------------------------------------------------------
```

```
-------
rkuhn           | Roland Kuhn, rk@rkuhn.info, Typesafe Inc.
benjchristensen| Ben Christensen, benjchristensen@gmail.com, Netflix Inc.
viktorklang     | Viktor Klang, viktor.klang@gmail.com, Typesafe Inc.
smaldini        | Stephane Maldini, stephane.maldini@gmail.com, Pivotal
 Software Inc.
savulchik       | Stanislav Savulchik, s.savulchik@gmail.com
ktoso           | Konrad Malawski, konrad.malawski@project13.pl, Typesafe
 Inc.
ouertani        | Slim Ouertani, ouertani@gmail.com
2m              | Martynas Mickevičius, mmartynas@gmail.com, Typesafe Inc.
ldaley          | Luke Daley, luke.daley@gradleware.com, Gradleware Inc.
colinrgodsey    | Colin Godsey, crgodsey@gmail.com, MediaMath Inc.
davidmoten      | Dave Moten, davidmoten@gmail.com
briantopping    | Brian Topping, brian.topping@gmail.com, Mauswerks LLC
rstoyanchev     | Rossen Stoyanchev, rstoyanchev@pivotal.io, Pivotal
BjornHamels     | Björn Hamels, bjorn@hamels.nl
JakeWharton     | Jake Wharton, jakewharton@gmail.com
anthonyvdotbe   | Anthony Vanelverdinghe, anthonyv.be@outlook.com
seratch         | Kazuhiro Sera, seratch@gmail.com, SmartNews, Inc.
akarnokd        | David Karnok, akarnokd@gmail.com
egetman         | Evgeniy Getman, getman.eugene@gmail.com
patriknw        | Patrik Nordwall, patrik.nordwall@gmail.com, Lightbend Inc
angelsanz       | Ángel Sanz, angelsanz@users.noreply.github.com
shenghaiyang    | 盛海洋, shenghaiyang@aliyun.com
kiiadi          | Kyle Thomson, kylthoms@amazon.com, Amazon.com
jroper          | James Roper, james@jazzy.id.au, Lightbend Inc.
olegdokuka      | Oleh Dokuka, shadowgun@.i.ua, Netifi Inc.
Scottmitch      | Scott Mitchell, scott_mitchell@apple.com, Apple Inc.
retronym        | Jason Zaugg, jzaugg@gmail.com, Lightbend Inc.

Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with
this code has waived all copyright and related or neighboring
rights to this code.

You should have received a copy of the CC0 legalcode along with this
work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.

License notice for Bouncy Castle
--------------------------------------------------------------------------------

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc.
(https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated
documentation files (the "Software"), to deal in the Software without
 restriction,
including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
copies of the Software, and
to permit persons to whom the Software is furnished to do so, subject to
 the
following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN
AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.


License notice for KeePassJava2
-------------------------------------------------------------------------------

Copyright 2015 Jo Rabin

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

License notice for openkeepass
-------------------------------------------------------------------------------

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this
file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND,
either express
or implied. See the License for the specific language governing permissions
 and
limitations under
the License.

Openkeepass License Link:
https://github.com/cternes/openkeepass/blob/master/LICENSE.txt
-----------------------------------------------------------------------------------------
------------
```

```
--------------------------------(separator)--------------------------------
-------- Dependency
com.squareup.okhttp3:okhttp:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Note that PublicSuffixDatabase.gz is compiled from The Public Suffix List:
https://publicsuffix.org/list/public_suffix_list.dat

It is subject to the terms of the Mozilla Public License, v. 2.0:
https://mozilla.org/MPL/2.0/









--------------------------------(separator)--------------------------------
-------- Dependency
com.squareup.okio:okio-jvm:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Copyright (C) 2021 Square, Inc.
Copyright (C) 2012 The Android Open Source Project









--------------------------------(separator)--------------------------------
-------- Dependency
org.jetbrains.kotlin:kotlin-stdlib-jdk8:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
   ============================================================================
   ==  NOTICE file corresponding to the section 4 d of                       ==
   ==  the Apache License, Version 2.0,                                      ==
   ==  in this case for the Kotlin Compiler distribution.                    ==
   ============================================================================

   Kotlin Compiler
   Copyright 2010-2020 JetBrains s.r.o and respective authors and developers
```

```
--------------------------------(separator)---------------------------------
-------- Dependency
org.jetbrains.kotlin:kotlin-stdlib-jdk7:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
   ==========================================================================
   ==  NOTICE file corresponding to the section 4 d of                     ==
   ==  the Apache License, Version 2.0,                                    ==
   ==  in this case for the Kotlin Compiler distribution.                  ==
   ==========================================================================

   Kotlin Compiler
   Copyright 2010-2020 JetBrains s.r.o and respective authors and developers
```

```
--------------------------------(separator)---------------------------------
-------- Dependency
org.jetbrains.kotlin:kotlin-stdlib-common:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
   ==========================================================================
   ==  NOTICE file corresponding to the section 4 d of                     ==
   ==  the Apache License, Version 2.0,                                    ==
   ==  in this case for the Kotlin Compiler distribution.                  ==
   ==========================================================================

   Kotlin Compiler
   Copyright 2010-2020 JetBrains s.r.o and respective authors and developers
```

```
--------------------------------(separator)---------------------------------
-------- Dependency
org.jetbrains.kotlin:kotlin-stdlib:jar

-------- License Type
```

```
Apache License, Version 2.0

-------- Copyrights
   ============================================================================
   ==  NOTICE file corresponding to the section 4 d of                       ==
   ==  the Apache License, Version 2.0,                                      ==
   ==  in this case for the Kotlin Compiler distribution.                    ==
   ============================================================================

   Kotlin Compiler
   Copyright 2010-2020 JetBrains s.r.o and respective authors and developers









--------------------------------(separator)--------------------------------
-------- Dependency
org.jetbrains:annotations:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
   ============================================================================
   ==  NOTICE file corresponding to the section 4 d of                       ==
   ==  the Apache License, Version 2.0,                                      ==
   ==  in this case for the Kotlin Compiler distribution.                    ==
   ============================================================================

   Kotlin Compiler
   Copyright 2010-2020 JetBrains s.r.o and respective authors and developers









--------------------------------(separator)--------------------------------
-------- Dependency
com.google.code.gson:gson:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Copyright Google Inc.
```

```
--------------------------------(separator)--------------------------------
-------- Dependency
com.google.j2objc:j2objc-annotations:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
   ============================================================================
   ==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
   ==  Version 2.0, in this case for the Apache Xalan Java distribution.  ==
   ============================================================================

   Apache Xalan (Xalan XSLT processor)
   Copyright 1999-2006 The Apache Software Foundation

   Apache Xalan (Xalan serializer)
   Copyright 1999-2006 The Apache Software Foundation

   This product includes software developed at
   The Apache Software Foundation (http://www.apache.org/).

   ============================================================================
   Portions of this software was originally based on the following:
     - software copyright (c) 1999-2002, Lotus Development Corporation.,
       http://www.lotus.com.
     - software copyright (c) 2001-2002, Sun Microsystems.,
       http://www.sun.com.
     - software copyright (c) 2003, IBM Corporation.,
       http://www.ibm.com.

   ============================================================================
   The binary distribution package (ie. jars, samples and documentation) of
   this product includes software developed by the following:

     - The Apache Software Foundation
         - Xerces Java - see LICENSE.txt
         - JAXP 1.3 APIs - see LICENSE.txt
         - Bytecode Engineering Library - see LICENSE.txt
         - Regular Expression - see LICENSE.txt

     - Scott Hudson, Frank Flannery, C. Scott Ananian
         - CUP Parser Generator runtime (javacup\runtime) - see LICENSE.txt


 ==========================================================================
   The source distribution package (ie. all source and tools required to
 build
   Xalan Java) of this product includes software developed by the following:

     - The Apache Software Foundation
         - Xerces Java - see LICENSE.txt
         - JAXP 1.3 APIs - see LICENSE.txt
         - Bytecode Engineering Library - see LICENSE.txt
         - Regular Expression - see LICENSE.txt
         - Ant - see LICENSE.txt
         - Stylebook doc tool - see LICENSE.txt

     - Elliot Joel Berk and C. Scott Ananian
         - Lexical Analyzer Generator (JLex) - see LICENSE.txt
```

```
   ============================================================================

   Apache Xerces Java
   Copyright 1999-2006 The Apache Software Foundation

   This product includes software developed at
   The Apache Software Foundation (http://www.apache.org/).

   Portions of Apache Xerces Java in xercesImpl.jar and xml-apis.jar
   were originally based on the following:
     - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
     - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
     - voluntary contributions made by Paul Eng on behalf of the
       Apache Software Foundation that were originally developed at iClick,
 Inc.,
       software copyright (c) 1999.

   ============================================================================

   Apache xml-commons xml-apis (redistribution of xml-apis.jar)

   Apache XML Commons
   Copyright 2001-2003,2006 The Apache Software Foundation.

   This product includes software developed at
   The Apache Software Foundation (http://www.apache.org/).

   Portions of this software were originally based on the following:
     - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
     - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
     - software copyright (c) 2000 World Wide Web Consortium, http://
www.w3.org


-----

Apache Harmony
Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of Apache Harmony were originally developed by
Intel Corporation and are licensed to the Apache Software
Foundation under the "Software Grant and Corporate Contribution
License Agreement" and for which the following copyright notices
apply
         (C) Copyright 2005 Intel Corporation
         (C) Copyright 2005-2006 Intel Corporation
         (C) Copyright 2006 Intel Corporation

Portions of Apache Harmony's Class Library TEXT module contain JavaDoc
derived from the ICU project.
Copyright (c) 1995-2008 International Business Machines Corporation and
 others


The Apache Harmony Development Kit (HDK) contains a jar file from the
Apache Derby Project for which the following notice applies:

Apache Derby
Copyright 2004-2007 The Apache Software Foundation

This product includes software developed by
```

```
The Apache Software Foundation (http://www.apache.org/).

Portions of Derby were originally developed by
International Business Machines Corporation and are
licensed to the Apache Software Foundation under the
"Software Grant and Corporate Contribution License Agreement",
informally known as the "Derby CLA".
The following copyright notice(s) were affixed to portions of the code
with which this file is now or was at one time distributed
and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation.
All rights reserved.

(C) Copyright IBM Corp. 2003.

The portion of the functionTests under 'nist' was originally
developed by the National Institute of Standards and Technology (NIST),
an agency of the United States Department of Commerce, and adapted by
International Business Machines Corporation in accordance with the NIST
Software Acknowledgment and Redistribution document at
http://www.itl.nist.gov/div897/ctg/sql_form.htm




Portions of the Apache Portable Runtime used by DRLVM were
developed at the National Center for Supercomputing Applications
(NCSA) at the University of Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security
Inc. MD5 Message-Digest Algorithm.

This software contains code derived from UNIX V7, Copyright(C)
Caldera International Inc.

-----

Apache Commons Lang
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software from the Spring Framework,
under the Apache License 2.0 (see: StringUtils.containsWhitespace())

-----

   ==========================================================================
   ==  NOTICE file corresponding to the section 4 d of                     ==
   ==  the Apache License, Version 2.0,                                    ==
   ==  in this case for the Android-specific code.                         ==
   ==========================================================================

Android Code
Copyright 2005-2008 The Android Open Source Project

This product includes software developed as part of
The Android Open Source Project (http://source.android.com).

   ==========================================================================
   ==  NOTICE file corresponding to the section 4 d of                     ==
   ==  the Apache License, Version 2.0,                                    ==
```

```
   ==  in this case for the Apache Harmony distribution.                  ==
   ==========================================================================

Apache Harmony
Copyright 2006 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of Harmony were originally developed by
Intel Corporation and are licensed to the Apache Software
Foundation under the "Software Grant and Corporate Contribution
License Agreement", informally known as the "Intel Harmony CLA".


   ==========================================================================
   ==  NOTICE file for the ICU License.                                    ==
   ==========================================================================

Copyright (c) 1995-2014 International Business Machines Corporation and
 others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.


   ==========================================================================
   ==  NOTICE file for the KXML License.                                   ==
   ==========================================================================

Copyright (c) 2002,2003, Stefan Haustein, Oberhausen, Rhld., Germany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
```

```
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


   ==========================================================================
   ==  NOTICE file for the W3C License.                                    ==
   ==========================================================================

Copyright (c) 2000 World Wide Web Consortium, (Massachusetts Institute
of Technology, Institut National de Recherche en Informatique et en
Automatique, Keio University). All Rights Reserved. This program is
distributed under the W3C's Software Intellectual Property License.
This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

See W3C License http://www.w3.org/Consortium/Legal/ for more details.

   ==========================================================================
   ==  NOTICE file for the fdlibm License.
 ==
   ==========================================================================

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunSoft, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this
software is freely granted, provided that this notice
is preserved.

-----


 ****************************************************************************
Copyright (C) 2003, International Business Machines Corporation and   *
others. All Rights Reserved.                                            *
 ****************************************************************************

Created on May 2, 2003

To change the template for this generated file go to
Window>Preferences>Java>Code Generation>Code and Comments

-----------------------------------------------------------------

 ****************************************************************************
(C) Copyright IBM Corp. 1996-2005 - All Rights Reserved
 *

 *
The original version of this source code and documentation is copyrighted
 *
```

```
and owned by IBM, These materials are provided under terms of a License
 *
Agreement between IBM and Sun. This technology is protected by multiple
 *
US and International patents. This notice and attribution to IBM may not
 *
to removed.
 *
 ******************************************************************************

-------------------------------------------------------------------

 ******************************************************************************
(C) Copyright IBM Corp. and others, 1996-2009 - All Rights Reserved
 *

 *
The original version of this source code and documentation is copyrighted
 *
and owned by IBM, These materials are provided under terms of a License
 *
Agreement between IBM and Sun. This technology is protected by multiple
 *
US and International patents. This notice and attribution to IBM may not
 *
to removed.
 *
 ******************************************************************************

-------------------------------------------------------------------

 ******************************************************************************
(C) Copyright IBM Corp. and others, 1996-2009 - All Rights Reserved
 *

 *
The original version of this source code and documentation is copyrighted
 *
and owned by IBM, These materials are provided under terms of a License
 *
Agreement between IBM and Sun. This technology is protected by multiple
 *
US and International patents. This notice and attribution to IBM may not
 *
to removed.
 *
 ******************************************************************************
*   file name:  UBiDiProps.java
*   encoding:   US-ASCII
*   tab size:   8 (not used)
*   indentation:4
*
*   created on: 2005jan16
*   created by: Markus W. Scherer
*
*   Low-level Unicode bidi/shaping properties access.
*   Java port of ubidi_props.h/.c.

-------------------------------------------------------------------

 ******************************************************************************
Copyright (C) 2003-2004, International Business Machines Corporation and
     *
```

```
others. All Rights Reserved.
 *
 ******************************************************************************

-------------------------------------------------------------------

 ******************************************************************************
Copyright (C) 2003-2004, International Business Machines Corporation and
 *
others. All Rights Reserved.
 *
 ******************************************************************************

-------------------------------------------------------------------

 ******************************************************************************
Copyright (C) 2004, International Business Machines Corporation and
 *
others. All Rights Reserved.
 *
 ******************************************************************************

-------------------------------------------------------------------

 ******************************************************************************
Copyright (C) 2009, International Business Machines Corporation and
 *
others. All Rights Reserved.
 *
 ******************************************************************************

-------------------------------------------------------------------

 ******************************************************************************
Copyright (C) 2009-2010, International Business Machines Corporation and
 *
others. All Rights Reserved.
 *
 ******************************************************************************

-------------------------------------------------------------------

 ******************************************************************************
Copyright (C) 2010, International Business Machines Corporation and
 *
others. All Rights Reserved.
 *
 ******************************************************************************

-------------------------------------------------------------------

(C) Copyright IBM Corp. 1996-2003 - All Rights Reserved
 *

 *
The original version of this source code and documentation is copyrighted
 *
and owned by IBM, These materials are provided under terms of a License
 *
Agreement between IBM and Sun. This technology is protected by multiple
 *
US and International patents. This notice and attribution to IBM may not
 *
```

```
to removed.
 *
#*****************************************************************************

This locale data is based on the ICU's Vietnamese locale data (rev. 1.38)
found at:

http://oss.software.ibm.com/cvs/icu/icu/source/data/locales/vi.txt?rev=1.38

-------------------------------------------------------------------

(C) Copyright IBM Corp. 1999-2003 - All Rights Reserved

The original version of this source code and documentation is
copyrighted and owned by IBM. These materials are provided
under terms of a License Agreement between IBM and Sun.
This technology is protected by multiple US and International
patents. This notice and attribution to IBM may not be removed.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996 - 1997, All Rights Reserved
(C) Copyright IBM Corp. 1996 - 1998, All Rights Reserved

The original version of this source code and documentation is
copyrighted and owned by Taligent, Inc., a wholly-owned subsidiary
of IBM. These materials are provided under terms of a License
Agreement between Taligent and Sun. This technology is protected
by multiple US and International patents.

This notice and attribution to Taligent may not be removed.
Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996 - All Rights Reserved
(C) Copyright IBM Corp. 1996 - All Rights Reserved

  The original version of this source code and documentation is copyrighted
and owned by Taligent, Inc., a wholly-owned subsidiary of IBM. These
materials are provided under terms of a License Agreement between Taligent
and Sun. This technology is protected by multiple US and International
patents. This notice and attribution to Taligent may not be removed.
  Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996 - All Rights Reserved
(C) Copyright IBM Corp. 1996-1998 - All Rights Reserved

  The original version of this source code and documentation is copyrighted
and owned by Taligent, Inc., a wholly-owned subsidiary of IBM. These
materials are provided under terms of a License Agreement between Taligent
and Sun. This technology is protected by multiple US and International
patents. This notice and attribution to Taligent may not be removed.
  Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996, 1997 - All Rights Reserved
(C) Copyright IBM Corp. 1996 - 1998 - All Rights Reserved

  The original version of this source code and documentation is copyrighted
and owned by Taligent, Inc., a wholly-owned subsidiary of IBM. These
```

```
materials are provided under terms of a License Agreement between Taligent
and Sun. This technology is protected by multiple US and International
patents. This notice and attribution to Taligent may not be removed.
  Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996, 1997 - All Rights Reserved
(C) Copyright IBM Corp. 1996 - 1998 - All Rights Reserved

The original version of this source code and documentation
is copyrighted and owned by Taligent, Inc., a wholly-owned
subsidiary of IBM. These materials are provided under terms
of a License Agreement between Taligent and Sun. This technology
is protected by multiple US and International patents.

This notice and attribution to Taligent may not be removed.
Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996, 1997 - All Rights Reserved
(C) Copyright IBM Corp. 1996 - 1999 - All Rights Reserved

The original version of this source code and documentation
is copyrighted and owned by Taligent, Inc., a wholly-owned
subsidiary of IBM. These materials are provided under terms
of a License Agreement between Taligent and Sun. This technology
is protected by multiple US and International patents.

This notice and attribution to Taligent may not be removed.
Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996, 1997 - All Rights Reserved
(C) Copyright IBM Corp. 1996 - 2002 - All Rights Reserved

The original version of this source code and documentation
is copyrighted and owned by Taligent, Inc., a wholly-owned
subsidiary of IBM. These materials are provided under terms
of a License Agreement between Taligent and Sun. This technology
is protected by multiple US and International patents.

This notice and attribution to Taligent may not be removed.
Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996, 1997 - All Rights Reserved
(C) Copyright IBM Corp. 1996, 1997 - All Rights Reserved

  The original version of this source code and documentation is copyrighted
and owned by Taligent, Inc., a wholly-owned subsidiary of IBM. These
materials are provided under terms of a License Agreement between Taligent
and Sun. This technology is protected by multiple US and International
patents. This notice and attribution to Taligent may not be removed.
  Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996, 1997 - All Rights Reserved
(C) Copyright IBM Corp. 1996-1998 - All Rights Reserved
```

```
  The original version of this source code and documentation is copyrighted
and owned by Taligent, Inc., a wholly-owned subsidiary of IBM. These
materials are provided under terms of a License Agreement between Taligent
and Sun. This technology is protected by multiple US and International
patents. This notice and attribution to Taligent may not be removed.
  Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996,1997 - All Rights Reserved
(C) Copyright IBM Corp. 1996, 1997 - All Rights Reserved

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996-1998 -  All Rights Reserved
(C) Copyright IBM Corp. 1996-1998 - All Rights Reserved

  The original version of this source code and documentation is copyrighted
and owned by Taligent, Inc., a wholly-owned subsidiary of IBM. These
materials are provided under terms of a License Agreement between Taligent
and Sun. This technology is protected by multiple US and International
patents. This notice and attribution to Taligent may not be removed.
  Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

(C) Copyright Taligent, Inc. 1996-1998 - All Rights Reserved
(C) Copyright IBM Corp. 1996-1998 - All Rights Reserved

  The original version of this source code and documentation is copyrighted
and owned by Taligent, Inc., a wholly-owned subsidiary of IBM. These
materials are provided under terms of a License Agreement between Taligent
and Sun. This technology is protected by multiple US and International
patents. This notice and attribution to Taligent may not be removed.
  Taligent is a registered trademark of Taligent, Inc.

-------------------------------------------------------------------

*****************************************************************************
* Copyright (C) 1996-2004, International Business Machines Corporation and
  *
* others. All Rights Reserved.
  *
*****************************************************************************

-------------------------------------------------------------------

Oracle designates certain files in this repository as subject to the
 "Classpath"
exception.
The designated files include the following notices. In the following
 notices, the
LICENSE file referred to is:

**********************************
START LICENSE file
**********************************

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
```

```
Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
 share
and change it.  By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users.  This General Public License applies to
most of the Free Software Foundation's software and to any other program
 whose
authors commit to using it.  (Some other Free Software Foundation software
 is
covered by the GNU Library General Public License instead.) You can apply it
 to
your programs, too.

When we speak of free software, we are referring to freedom, not price.  Our
General Public Licenses are designed to make sure that you have the freedom
 to
distribute copies of free software (and charge for this service if you
 wish),
that you receive source code or can get it if you want it, that you can
 change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to
 deny
you these rights or to ask you to surrender the rights.  These restrictions
translate to certain responsibilities for you if you distribute copies of
 the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or
 for
a fee, you must give the recipients all the rights that you have.  You must
make sure that they, too, receive or can get the source code.  And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also, for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software.  If
 the
software is modified by someone else and passed on, we want its recipients
 to
know that what they have is not the original, so that any problems
 introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents.  We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
 proprietary.
To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.
```

```
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
placed by the copyright holder saying it may be distributed under the terms
 of
this General Public License.  The "Program", below, refers to any such
 program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
Program or a portion of it, either verbatim or with modifications and/or
translated into another language.  (Hereinafter, translation is included
without limitation in the term "modification".) Each licensee is addressed
 as
"you".

Activities other than copying, distribution and modification are not covered
 by
this License; they are outside its scope.  The act of running the Program is
not restricted, and the output from the Program is covered only if its
 contents
constitute a work based on the Program (independent of having been made by
running the Program).  Whether that is true depends on what the Program
 does.

1. You may copy and distribute verbatim copies of the Program's source code
 as
you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
 License
and to the absence of any warranty; and give any other recipients of the
Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you
 may
at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it,
 thus
forming a work based on the Program, and copy and distribute such
 modifications
or work under the terms of Section 1 above, provided that you also meet all
 of
these conditions:

    a) You must cause the modified files to carry prominent notices stating
    that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole
 or
    in part contains or is derived from the Program or any part thereof, to
 be
    licensed as a whole at no charge to all third parties under the terms of
    this License.

    c) If the modified program normally reads commands interactively when
 run,
    you must cause it, when started running for such interactive use in the
    most ordinary way, to print or display an announcement including an
    appropriate copyright notice and a notice that there is no warranty (or
    else, saying that you provide a warranty) and that users may
 redistribute
```

```
    the program under these conditions, and telling the user how to view a
 copy
    of this License.  (Exception: if the Program itself is interactive but
 does
    not normally print such an announcement, your work based on the Program
 is
    not required to print an announcement.)

These requirements apply to the modified work as a whole.  If identifiable
sections of that work are not derived from the Program, and can be
 reasonably
considered independent and separate works in themselves, then this License,
 and
its terms, do not apply to those sections when you distribute them as
 separate
works.  But when you distribute the same sections as part of a whole which
 is a
work based on the Program, the distribution of the whole must be on the
 terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise
 the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with
 the
Program (or with a work based on the Program) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of Sections 1
 and
2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable source
    code, which must be distributed under the terms of Sections 1 and 2
 above
    on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three years, to
    give any third party, for a charge no more than your cost of physically
    performing source distribution, a complete machine-readable copy of the
    corresponding source code, to be distributed under the terms of Sections
 1
    and 2 above on a medium customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code.  (This alternative is allowed only
    for noncommercial distribution and only if you received the program in
    object code or executable form with such an offer, in accord with
    Subsection b above.)

The source code for a work means the preferred form of the work for making
modifications to it.  For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and
 installation
of the executable.  However, as a special exception, the source code
```

```
distributed need not include anything that is normally distributed (in
 either
source or binary form) with the major components (compiler, kernel, and so
 on)
of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to
 copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even
 though
third parties are not compelled to copy the source along with the object
 code.

4. You may not copy, modify, sublicense, or distribute the Program except as
expressly provided under this License.  Any attempt otherwise to copy,
 modify,
sublicense or distribute the Program is void, and will automatically
 terminate
your rights under this License.  However, parties who have received copies,
 or
rights, from you under this License will not have their licenses terminated
 so
long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed
 it.
However, nothing else grants you permission to modify or distribute the
 Program
or its derivative works.  These actions are prohibited by law if you do not
accept this License.  Therefore, by modifying or distributing the Program
 (or
any work based on the Program), you indicate your acceptance of this License
 to
do so, and all its terms and conditions for copying, distributing or
 modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
 Program),
the recipient automatically receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and
 conditions.
You may not impose any further restrictions on the recipients' exercise of
 the
rights granted herein.  You are not responsible for enforcing compliance by
third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
 conditions
are imposed on you (whether by court order, agreement or otherwise) that
contradict the conditions of this License, they do not excuse you from the
conditions of this License.  If you cannot distribute so as to satisfy
simultaneously your obligations under this License and any other pertinent
obligations, then as a consequence you may not distribute the Program at
 all.
For example, if a patent license would not permit royalty-free
 redistribution
of the Program by all those who receive copies directly or indirectly
 through
you, then the only way you could satisfy both it and this License would be
 to
```

```
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply and
the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or
other property right claims or to contest validity of any such claims; this
section has the sole purpose of protecting the integrity of the free
 software
distribution system, which is implemented by public license practices.  Many
people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of
 that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose
 that
choice.

This section is intended to make thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Program under this License may add an
 explicit
geographical distribution limitation excluding those countries, so that
distribution is permitted only in or among countries not thus excluded.  In
such case, this License incorporates the limitation as if written in the
 body
of this License.

9. The Free Software Foundation may publish revised and/or new versions of
 the
General Public License from time to time.  Such new versions will be similar
 in
spirit to the present version, but may differ in detail to address new
 problems
or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
 later
version", you have the option of following the terms and conditions either
 of
that version or of any later version published by the Free Software
 Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission.  For software which is copyrighted by the Free Software
 Foundation,
write to the Free Software Foundation; we sometimes make exceptions for
 this.
Our decision will be guided by the two goals of preserving the free status
 of
all derivatives of our free software and of promoting the sharing and reuse
 of
software generally.

NO WARRANTY
```

```
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
 OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
 THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE
 OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR
 DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH
 HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program.  It is safest to
 attach
them to the start of each source file to most effectively convey the
 exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.

    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify it
    under the terms of the GNU General Public License as published by the
 Free
    Software Foundation; either version 2 of the License, or (at your
 option)
    any later version.

    This program is distributed in the hope that it will be useful, but
 WITHOUT
    ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
    FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 for
    more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
 59
    Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.
```

```
If the program is interactive, make it output a short notice like this when
 it
starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author Gnomovision
 comes
    with ABSOLUTELY NO WARRANTY; for details type 'show w'.  This is free
    software, and you are welcome to redistribute it under certain
 conditions;
    type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may be
called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
 school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
 Here
is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    'Gnomovision' (which makes passes at compilers) written by James Hacker.

    signature of Ty Coon, 1 April 1989

    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General Public
License instead of this License.


"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's
 header
the words "Oracle designates this particular file as subject to the
 "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this
 code."

    Linking this library statically or dynamically with other modules is
 making
    a combined work based on this library.  Thus, the terms and conditions
 of
    the GNU General Public License cover the whole combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
 modules,
    and to copy and distribute the resulting executable under terms of your
    choice, provided that you also meet, for each linked independent module,
    the terms and conditions of the license of that module.  An independent
    module is a module which is not derived from or based on this library.
 If
```

```
    you modify this library, you may extend this exception to your version
 of
    the library, but you are not obligated to do so.  If you do not wish to
 do
    so, delete this exception statement from your version.
**********************************
END LICENSE file
**********************************


--------------------------------------------------------------------

<!--
 Copyright (c) 1998, 1999, Oracle and/or its affiliates. All rights
 reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

--------------------------------------------------------------------

<!--
 Copyright (c) 1998, 2003, Oracle and/or its affiliates. All rights
 reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.
```

```
-----------------------------------------------------------------------

<!--
 Copyright (c) 1998, 2006, Oracle and/or its affiliates. All rights
 reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

-----------------------------------------------------------------------

<!--
 Copyright (c) 1998, 2010, Oracle and/or its affiliates. All rights
 reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

-----------------------------------------------------------------------

<!--
 Copyright (c) 1998, 2011, Oracle and/or its affiliates. All rights
 reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
```

```
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

-----------------------------------------------------------------------

<!--
 Copyright (c) 2000, 2004, Oracle and/or its affiliates. All rights
 reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

-----------------------------------------------------------------------

<!--
 Copyright (c) 2000, 2009, Oracle and/or its affiliates. All rights
 reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
```

```
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

-----------------------------------------------------------------------

<!--
 Copyright (c) 2001, 2005, Oracle and/or its affiliates. All rights
 reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

-----------------------------------------------------------------------

<!--
 Copyright (c) 2001, 2010, Oracle and/or its affiliates. All rights
 reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

-----------------------------------------------------------------------

<!--
```

```
 Copyright (c) 2003, 2006, Oracle and/or its affiliates. All rights
 reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

-----------------------------------------------------------------------

<!--
Copyright (c) 1999, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

<!--
Copyright (c) 1999, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
```

```
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------


 Copyright (c) 2001, Oracle and/or its affiliates. All rights reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

---------------------------------------------------------------------

 Copyright (c) 1998, 2011, Oracle and/or its affiliates. All rights
 reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

Copyright (c) 1998, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
```

```
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2001, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2006, Oracle and/or its affiliates. All rights reserved.
```

```
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
```

```
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

<?xml version="1.0" encoding="UTF-8"?>

<!--
 Copyright (c) 2003, Oracle and/or its affiliates. All rights reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
```

```
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

---------------------------------------------------------------------

<?xml version="1.0"?>

<!--
 Copyright (c) 2003, Oracle and/or its affiliates. All rights reserved.
 DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

 This code is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License version 2 only, as
 published by the Free Software Foundation.  Oracle designates this
 particular file as subject to the "Classpath" exception as provided
 by Oracle in the LICENSE file that accompanied this code.

 This code is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 version 2 for more details (a copy is included in the LICENSE file that
 accompanied this code).

 You should have received a copy of the GNU General Public License version
 2 along with this work; if not, write to the Free Software Foundation,
 Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

 Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 or visit www.oracle.com if you need additional information or have any
 questions.

---------------------------------------------------------------------

Copyright (c) 1998, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-------------------------------------------------------------------

<code>Replaceable</code> is an interface representing a
string of characters that supports the replacement of a range of
itself with a new string of characters.  It is used by APIs that
change a piece of text while retaining metadata.  Metadata is data
other than the Unicode characters returned by char32At().  One
example of metadata is style attributes; another is an edit
history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that
during a replace operation, new characters take on the metadata of
the old characters.  For example, if the string "the <b>bold</b>
font" has range (4, 8) replaced with "strong", then it becomes "the
<b>strong</b> font".

<p><code>Replaceable</code> specifies ranges using a start
offset and a limit offset.  The range of characters thus specified
includes the characters at offset start..limit-1.  That is, the
start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters
in the string: <code>length()</code>, <code>charAt()</code>,
<code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of
<code>replace()</code> is the following:
<ul>
  <li>Set the metadata of the new text to the metadata of the first
  character replaced</li>
  <li>If no characters are replaced, use the metadata of the
  previous character</li>
  <li>If there is no previous character (i.e. start == 0), use the
  following character</li>
  <li>If there is no following character (i.e. the replaceable was
  empty), use default metadata<br>
  <li>If the code point U+FFFF is seen, it should be interpreted as
  a special marker having no metadata<li>
  </li>
</ul>
If this is not the behavior, the subclass should document any differences.

<p>Copyright &copy; IBM Corporation 1999.  All rights reserved.

@author Alan Liu
@stable ICU 2.0

-------------------------------------------------------------------

<code>ReplaceableString</code> is an adapter class that implements the
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p><em>Note:</em> This class does not support attributes and is not
intended for general use.  Most clients will need to implement
{@link Replaceable} in their text representation class.
```

```
<p>Copyright &copy; IBM Corporation 1999.  All rights reserved.

@see Replaceable
@author Alan Liu
@stable ICU 2.0

--------------------------------------------------------------------

Copyright (C) 1991-2007 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy
of the Unicode data files and any associated documentation (the "Data
Files") or Unicode software and any associated documentation (the
"Software") to deal in the Data Files or Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, and/or sell copies of the Data Files or Software, and
to permit persons to whom the Data Files or Software are furnished to do
so, provided that (a) the above copyright notice(s) and this permission
notice appear with all copies of the Data Files or Software, (b) both the
above copyright notice(s) and this permission notice appear in associated
documentation, and (c) there is clear notice in each modified Data File or
in the Software as well as in the documentation associated with the Data
File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF
THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS
INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR
CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not
be used in advertising or otherwise to promote the sale, use or other
dealings in these Data Files or Software without prior written
authorization of the copyright holder.


Generated automatically from the Common Locale Data Repository. DO NOT EDIT!

--------------------------------------------------------------------

Copyright (C) 1991-2011 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation (the
"Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software without
restriction, including without limitation the rights to use, copy,
modify, merge, publish, distribute, and/or sell copies of the Data
Files or Software, and to permit persons to whom the Data Files or
Software are furnished to do so, provided that (a) the above copyright
notice(s) and this permission notice appear with all copies of the
Data Files or Software, (b) both the above copyright notice(s) and
this permission notice appear in associated documentation, and (c)
there is clear notice in each modified Data File or in the Software as
well as in the documentation associated with the Data File(s) or
Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
```

```
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR
ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR
SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1994, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1994, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
```

```
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1994, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1994, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1994, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
```

```
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1994, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1995, 2000, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1995, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1995, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1995, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
```

```
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1995, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1995, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
```

```
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1995, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1996, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1996, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
```

```
This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1996, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1996, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1996, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1996, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
```

```
Copyright (c) 1996, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1996, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1997, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
```

```
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1997, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1997, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------
```

```
Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1997, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1997, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1997, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
```

```
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1997, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1997, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1997, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1998, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1998, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.
```

```
This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1998, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1998, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
```

```
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1999, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1999, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
```

```
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 1999, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2000, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2000, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2000, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2000, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
```

```
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2000, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2000, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
```

```
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2000, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2000, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2000, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
```

```
This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2000, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2001, 2002, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2001, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2001, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
```

```
Copyright (c) 2001, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2001, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2002, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
```

```
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2002, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2002, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------
```

```
Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2003, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2003, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2003, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
```

```
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2003, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2003, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2005, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.
```

```
This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2005, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2005, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
```

```
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2005, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2005, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2005, 2013 Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
```

```
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2007, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2008, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (C) 2014 The Android Open Source Project
Copyright (c) 2009, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
```

```
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 1995, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 1998, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2000, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2001, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2002, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
```

```
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
```

```
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
```

```
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------
```

```
Copyright (c) 1994, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1994, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 1996, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
```

```
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 1997, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 1999, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2000, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
```

```
This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2001, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
```

```
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
```

```
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.
```

```
This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1995, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 1997, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

Copyright (c) 1996, 1998, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 1999, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2000, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
```

```
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2001, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2002, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------
```

```
Copyright (c) 1996, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
```

```
This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
```

```
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
```

```
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1996, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 1998, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
```

```
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 1999, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2000, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2001, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.
```

```
This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2002, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

Copyright (c) 1997, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
```

```
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2009, Oracle and/or its affiliates. All rights reserved.
```

```
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1997, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
```

```
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2001, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2002, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
```

```
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
```

```
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
```

```
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1998, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------
```

```
Copyright (c) 1998, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (c) 1999, 2000, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (c) 1999, 2001, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
```

```
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2002, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
```

```
This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
```

```
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
```

```
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 1999, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2001, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.
```

```
This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2002, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

Copyright (c) 2000, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
```

```
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2007, Oracle and/or its affiliates. All rights reserved.

DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------
```

```
Copyright (c) 2000, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
```

```
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2000, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
```

```
This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2002, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
```

```
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
```

```
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.
```

```
This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2001, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

Copyright (c) 2002, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2002, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2002, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
```

```
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2002, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2002, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------
```

```
Copyright (c) 2002, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (c) 2002, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (c) 2002, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2002, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2002, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2002, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
```

```
This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2002, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
```

```
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
```

```
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (c) 2003, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (c) 2003, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
```

```
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.
```

```
This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2003,2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

Copyright (c) 2004, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2004, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2004, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
```

```
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2004, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2004, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2004, 2012, Oracle and/or its affiliates. All rights reserved.
```

```
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2004, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2005, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2005, 2007, Oracle and/or its affiliates. All rights reserved.

---------------------------------------------------------------------

Copyright (c) 2005, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2005, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

(C) Copyright Taligent, Inc. 1996, 1997 - All Rights Reserved
(C) Copyright IBM Corp. 1996 - 1999 - All Rights Reserved
```

```
The original version of this source code and documentation
is copyrighted and owned by Taligent, Inc., a wholly-owned
subsidiary of IBM. These materials are provided under terms
of a License Agreement between Taligent and Sun. This technology
is protected by multiple US and International patents.

This notice and attribution to Taligent may not be removed.
Taligent is a registered trademark of Taligent, Inc.

-----------------------------------------------------------------------

Copyright (c) 2005, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (c) 2005, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

-----------------------------------------------------------------------

Copyright (c) 2005, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
```

```
This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2005, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2005, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
```

```
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2005, Oracle and/or its affiliates. All rights reserved.

---------------------------------------------------------------------

Copyright (c) 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2006, 2007, Oracle and/or its affiliates. All rights reserved.

---------------------------------------------------------------------

Copyright (c) 2006, 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

Copyright (c) 2006, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2006, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
```

```
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2007, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2007, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------
```

```
Copyright (c) 2007, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2007, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2007, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2007, Oracle and/or its affiliates. All rights reserved.

---------------------------------------------------------------------

Copyright (c) 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2008, 2009,  Oracle and/or its affiliates. All rights
 reserved.

DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

Copyright (c) 2008, 2009, Oracle and/or its affiliates. All rights reserved.

DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2008, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2008, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
```

```
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2008, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2008, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------
```

```
Copyright (c) 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2009, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2009, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
```

```
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2009, 2013, Oracle and/or its affiliates. All rights reserved.
Copyright 2009 Google Inc.  All Rights Reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2010, 2011, Oracle and/or its affiliates. All rights reserved.
```

```
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2010, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2010, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2012, 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
```

```
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright (c) 2013, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

Copyright 2015 Google Inc.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Google designates this
particular file as subject to the "Classpath" exception as provided
by Google in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

---------------------------------------------------------------------

Licensed Materials - Property of IBM

(C) Copyright IBM Corp. 1999 All Rights Reserved.
(C) IBM Corp. 1997-1998.  All Rights Reserved.

The program is provided "as is" without any warranty express or
implied, including the warranty of non-infringement and the implied
warranties of merchantibility and fitness for a particular purpose.
IBM will not be liable for any damages suffered by you as a result
of using the Program. In no event will IBM be liable for any
special, indirect or consequential damages or lost profits even if
IBM has been advised of the possibility of their occurrence. IBM
will not be liable for any third party claims against you.

---------------------------------------------------------------------

is licensed under the same terms.  The copyright and license information
for java/net/Inet4AddressImpl.java follows.

Copyright (c) 2002, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
```

```
Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

licensed under the same terms. The copyright and license information for
java/net/PlainDatagramSocketImpl.java follows.

Copyright (c) 2007, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

licensed under the same terms. The copyright and license information for
java/net/PlainSocketImpl.java follows.

Copyright (c) 2007, 2008, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

licensed under the same terms. The copyright and license information for
```

```
sun/nio/ch/FileChannelImpl.java follows.

Copyright (c) 2000, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

licensed under the same terms. The copyright and license information for
sun/nio/ch/FileDispatcherImpl.java follows.

Copyright (c) 2000, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

licensed under the same terms. The copyright and license information for
sun/nio/ch/InheritedChannel.java follows.

Copyright (c) 2003, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
```

```
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

licensed under the same terms. The copyright and license information for
sun/nio/ch/ServerSocketChannelImpl.java follows.

Copyright (c) 2000, 2012, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

same terms. The copyright and license information for sun/nio/ch/Net.java
follows.

Copyright (c) 2000, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).
```

```
You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

the same terms. The copyright and license information for
java/io/FileSystem.java follows.

Copyright (c) 1998, 2005, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

the same terms. The copyright and license information for
java/lang/Long.java follows.

Copyright (c) 1994, 2009, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

```
---------------------------------------------------------------------

the same terms. The copyright and license information for
sun/nio/ch/IOStatus.java follows.

Copyright (c) 2002, 2003, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

under the same terms. The copyright and license information for
java/io/UnixFileSystem.java follows.

Copyright (c) 1998, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

under the same terms. The copyright and license information for
java/lang/Integer.java follows.

Copyright (c) 1994, 2010, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
```

```
This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

under the same terms. The copyright and license information for
java/net/NetworkInterface.java follows.

Copyright (c) 2000, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

under the same terms. The copyright and license information for
java/net/SocketOptions.java follows.

Copyright (c) 1996, 2006, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
```

```
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------

under the same terms. The copyright and license information for
java/util/zip/ZipFile.java follows.

Copyright (c) 1995, 2011, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

---------------------------------------------------------------------









--------------------------------(separator)---------------------------------
-------- Dependency
com.google.guava:guava:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Copyright (C) 2021 The Guava Authors
```

```
--------------------------------(separator)--------------------------------
-------- Dependency
com.google.guava:failureaccess:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Copyright (C) 2021 The Guava Authors
```

```
--------------------------------(separator)--------------------------------
-------- Dependency
com.google.guava:listenablefuture:1.0:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Copyright (C) 2021 The Guava Authors
```

```
--------------------------------(separator)--------------------------------
-------- Dependency
com.google.code.findbugs:jsr305:jar

-------- License Type
The 3-Clause BSD License

-------- Copyrights
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

-------- Full Text of LICENSE-jsr305.txt

The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:

  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:

  http://code.google.com/p/jsr-305/
```

```
-------- Full Text of the New BSD License

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be
used to endorse or promote products derived from this software without
 specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS”
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
 OF SUCH
DAMAGE.









--------------------------------(separator)---------------------------------
-------- Dependency
net.jcip:jcip-annotations:jar

== jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
```

```
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.




---------------------------------(separator)---------------------------------
-------- Dependency
org.checkerframework:checker-qual:jar

-------- License Type
GNU General Public License 2 (GPL2)
MIT License

-------- Copyrights
The Checker Framework
Copyright 2004-present by the Checker Framework developers

Most of the Checker Framework is licensed under the GNU General Public
License, version 2 (GPL2), with the classpath exception.  The text of this
license appears below.  This is the same license used for OpenJDK.

A few parts of the Checker Framework have more permissive licenses, notably
the parts that you might want to include with your own program.

 * The annotations and utility files are licensed under the MIT License.
   (The text of this license also appears below.)  This applies to
   checker-qual*.jar and checker-util.jar and all the files that appear in
   them, which is all files in checker-qual and checker-util directories.
   It also applies to the cleanroom implementations of
   third-party annotations (in checker/src/testannotations/,
   framework/src/main/java/org/jmlspecs/, and
   framework/src/main/java/com/google/).

The Checker Framework includes annotations for some libraries.  Those in
.astub files use the MIT License.  Those in https://github.com/typetools/jdk
(which appears in the annotated-jdk directory of file checker.jar) use the
GPL2 license.

Some external libraries that are included with the Checker Framework
distribution have different licenses.  Here are some examples.

 * JavaParser is dual licensed under the LGPL or the Apache license -- you
   may use it under whichever one you want.  (The JavaParser source code
   contains a file with the text of the GPL, but it is not clear why, since
   JavaParser does not use the GPL.)  See
```

```
   https://github.com/typetools/stubparser .

 * Annotation Tools (https://github.com/typetools/annotation-tools) uses
   the MIT license.

 * Libraries in plume-lib (https://github.com/plume-lib/) are licensed
   under the MIT License.

-------- Full MIT License Text

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.





--------------------------------(separator)--------------------------------
-------- Dependency
com.google.errorprone:error_prone_annotations:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Copyright 2014 The Error Prone Authors.









--------------------------------(separator)--------------------------------
-------- Dependency
com.fasterxml.jackson.core:jackson-annotations:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Copyright ©2009-2011 FasterXML, LLC
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
```

```
--------------------------------(separator)--------------------------------
-------- Dependency
com.fasterxml.jackson.core:jackson-core:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.









--------------------------------(separator)--------------------------------
-------- Dependency
com.fasterxml.jackson.core:jackson-databind:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing
```

```
Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.









---------------------------------(separator)---------------------------------
-------- Dependency
com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Copyright 2013 FasterXML.com









---------------------------------(separator)---------------------------------
-------- Dependency
com.fasterxml.jackson.dataformat:jackson-dataformat-xml:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).
```

```
## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.









--------------------------------(separator)---------------------------------
-------- Dependency
com.fasterxml.woodstox:woodstox-core:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Copyright (c) 2004 Tatu Saloranta, tatu.saloranta@iki.fi









--------------------------------(separator)---------------------------------
-------- Dependency
org.codehaus.woodstox:stax2-api:jar

-------- License Type
BSD-2-Clause

-------- Copyrights
Copyright (c) 2010- FasterXML.com LLC info@fasterxml.com

-------- Full License Text
This copy of Stax2 API is licensed under the
Simplified BSD License (also known as "2-clause BSD", or "FreeBSD License")
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.opensource.org/licenses/bsd-license.php

with details of:

<COPYRIGHT HOLDER> = FasterXML.com
<YEAR> = 2010-
```

```
--------------------------------(separator)--------------------------------
-------- Dependency
org.slf4j:slf4j-api:jar

-------- License Type
MIT License

-------- Copyrights
Copyright (c) 2004-2023 QOS.ch Sarl (Switzerland)

-------- Full License Text
 Copyright (c) 2004-2023 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.




--------------------------------(separator)--------------------------------
-------- Dependency
io.projectreactor:reactor-core:jar

-------- License Type
Apache License, Version 2.0

-------- Copyrights
Copyright (c) 2019-2022 VMware Inc. or its affiliates, All Rights Reserved.




--------------------------------(separator)--------------------------------
-------- Dependency
org.reactivestreams:reactive-streams:jar

-------- License Type
MIT-0 No Attribution License

-------- Copyrights
Copyright 2014 Reactive Streams
This project is a collaboration between engineers from Kaazing, Lightbend,
 Netflix,
Pivotal, Red Hat, Twitter and many others. This project is licensed under
 MIT No
```

```
Attribution (SPDX: MIT-0).

-------- Full License Text

MIT No Attribution

Copyright [year] [fullname]

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.MIT No Attribution

Copyright [year] [fullname]

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.




--------------------------------(separator)---------------------------------

-------- Fourth Party Dependencies Summary
com.oracle.graph:msgraph:jar
org.reactivestreams:reactive-streams:jar
io.projectreactor:reactor-core:jar
com.microsoft.graph:microsoft-graph:jar
com.google.code.gson:gson:jar
com.microsoft.graph:microsoft-graph-core:jar
com.azure:azure-core:jar
com.fasterxml.jackson.core:jackson-annotations:jar
com.fasterxml.jackson.core:jackson-core:jar
com.fasterxml.jackson.core:jackson-databind:jar
com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar
```

```
com.fasterxml.jackson.dataformat:jackson-dataformat-xml:jar
org.codehaus.woodstox:stax2-api:jar
com.fasterxml.woodstox:woodstox-core:jar
org.slf4j:slf4j-api:jar
com.google.guava:guava:jar
com.google.guava:failureaccess:jar
com.google.guava:listenablefuture:jar
com.google.code.findbugs:jsr305:jar
org.checkerframework:checker-qual:jar
com.google.errorprone:error_prone_annotations:jar
com.google.j2objc:j2objc-annotations:jar
com.squareup.okhttp3:okhttp:jar
com.squareup.okio:okio-jvm:jar
org.jetbrains.kotlin:kotlin-stdlib-jdk8:jar
org.jetbrains.kotlin:kotlin-stdlib-jdk7:jar
org.jetbrains.kotlin:kotlin-stdlib-common:jar
org.jetbrains.kotlin:kotlin-stdlib:jar
org.jetbrains:annotations:jar

--------------------------------(separator)---------------------------------
The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------(separator)---------------------------------

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
```

```
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
```

```
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
```

```
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


--------------------------------(separator)---------------------------------
    GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
```

```
     59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
```

```
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
```

```
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
```

```
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
```

```
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
```

```
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
```

```
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

       NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
```

```
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

       END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!

---------------------------------(separator)---------------------------------
The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.
```

```
Preamble

The licenses for most software are designed to take away your freedom to
 share
and change it.  By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users.  This General Public License applies to
most of the Free Software Foundation's software and to any other program
 whose
authors commit to using it.  (Some other Free Software Foundation software
 is
covered by the GNU Library General Public License instead.) You can apply it
 to
your programs, too.

When we speak of free software, we are referring to freedom, not price.  Our
General Public Licenses are designed to make sure that you have the freedom
 to
distribute copies of free software (and charge for this service if you
 wish),
that you receive source code or can get it if you want it, that you can
 change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to
 deny
you these rights or to ask you to surrender the rights.  These restrictions
translate to certain responsibilities for you if you distribute copies of
 the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or
 for
a fee, you must give the recipients all the rights that you have.  You must
make sure that they, too, receive or can get the source code.  And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also, for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software.  If
 the
software is modified by someone else and passed on, we want its recipients
 to
know that what they have is not the original, so that any problems
 introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents.  We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
 proprietary.
To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
```

```
placed by the copyright holder saying it may be distributed under the terms
 of
this General Public License.  The "Program", below, refers to any such
 program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
Program or a portion of it, either verbatim or with modifications and/or
translated into another language.  (Hereinafter, translation is included
without limitation in the term "modification".) Each licensee is addressed
 as
"you".

Activities other than copying, distribution and modification are not covered
 by
this License; they are outside its scope.  The act of running the Program is
not restricted, and the output from the Program is covered only if its
 contents
constitute a work based on the Program (independent of having been made by
running the Program).  Whether that is true depends on what the Program
 does.

1. You may copy and distribute verbatim copies of the Program's source code
 as
you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
 License
and to the absence of any warranty; and give any other recipients of the
Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you
 may
at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it,
 thus
forming a work based on the Program, and copy and distribute such
 modifications
or work under the terms of Section 1 above, provided that you also meet all
 of
these conditions:

    a) You must cause the modified files to carry prominent notices stating
    that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole
 or
    in part contains or is derived from the Program or any part thereof, to
 be
    licensed as a whole at no charge to all third parties under the terms of
    this License.

    c) If the modified program normally reads commands interactively when
 run,
    you must cause it, when started running for such interactive use in the
    most ordinary way, to print or display an announcement including an
    appropriate copyright notice and a notice that there is no warranty (or
    else, saying that you provide a warranty) and that users may
 redistribute
    the program under these conditions, and telling the user how to view a
 copy
    of this License.  (Exception: if the Program itself is interactive but
 does
```

```
    not normally print such an announcement, your work based on the Program
 is
    not required to print an announcement.)

These requirements apply to the modified work as a whole.  If identifiable
sections of that work are not derived from the Program, and can be
 reasonably
considered independent and separate works in themselves, then this License,
 and
its terms, do not apply to those sections when you distribute them as
 separate
works.  But when you distribute the same sections as part of a whole which
 is a
work based on the Program, the distribution of the whole must be on the
 terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise
 the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with
 the
Program (or with a work based on the Program) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of Sections 1
 and
2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable source
    code, which must be distributed under the terms of Sections 1 and 2
 above
    on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three years, to
    give any third party, for a charge no more than your cost of physically
    performing source distribution, a complete machine-readable copy of the
    corresponding source code, to be distributed under the terms of Sections
 1
    and 2 above on a medium customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code.  (This alternative is allowed only
    for noncommercial distribution and only if you received the program in
    object code or executable form with such an offer, in accord with
    Subsection b above.)

The source code for a work means the preferred form of the work for making
modifications to it.  For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and
 installation
of the executable.  However, as a special exception, the source code
distributed need not include anything that is normally distributed (in
 either
source or binary form) with the major components (compiler, kernel, and so
 on)
of the operating system on which the executable runs, unless that component
```

```
itself accompanies the executable.

If distribution of executable or object code is made by offering access to
 copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even
 though
third parties are not compelled to copy the source along with the object
 code.

4. You may not copy, modify, sublicense, or distribute the Program except as
expressly provided under this License.  Any attempt otherwise to copy,
 modify,
sublicense or distribute the Program is void, and will automatically
 terminate
your rights under this License.  However, parties who have received copies,
 or
rights, from you under this License will not have their licenses terminated
 so
long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed
 it.
However, nothing else grants you permission to modify or distribute the
 Program
or its derivative works.  These actions are prohibited by law if you do not
accept this License.  Therefore, by modifying or distributing the Program
 (or
any work based on the Program), you indicate your acceptance of this License
 to
do so, and all its terms and conditions for copying, distributing or
 modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
 Program),
the recipient automatically receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and
 conditions.
You may not impose any further restrictions on the recipients' exercise of
 the
rights granted herein.  You are not responsible for enforcing compliance by
third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
 conditions
are imposed on you (whether by court order, agreement or otherwise) that
contradict the conditions of this License, they do not excuse you from the
conditions of this License.  If you cannot distribute so as to satisfy
simultaneously your obligations under this License and any other pertinent
obligations, then as a consequence you may not distribute the Program at
 all.
For example, if a patent license would not permit royalty-free
 redistribution
of the Program by all those who receive copies directly or indirectly
 through
you, then the only way you could satisfy both it and this License would be
 to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply and
the section as a whole is intended to apply in other circumstances.
```

```
It is not the purpose of this section to induce you to infringe any patents
 or
other property right claims or to contest validity of any such claims; this
section has the sole purpose of protecting the integrity of the free
 software
distribution system, which is implemented by public license practices.  Many
people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of
 that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose
 that
choice.

This section is intended to make thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Program under this License may add an
 explicit
geographical distribution limitation excluding those countries, so that
distribution is permitted only in or among countries not thus excluded.  In
such case, this License incorporates the limitation as if written in the
 body
of this License.

9. The Free Software Foundation may publish revised and/or new versions of
 the
General Public License from time to time.  Such new versions will be similar
 in
spirit to the present version, but may differ in detail to address new
 problems
or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
 later
version", you have the option of following the terms and conditions either
 of
that version or of any later version published by the Free Software
 Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission.  For software which is copyrighted by the Free Software
 Foundation,
write to the Free Software Foundation; we sometimes make exceptions for
 this.
Our decision will be guided by the two goals of preserving the free status
 of
all derivatives of our free software and of promoting the sharing and reuse
 of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
 OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
```

```
PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
 THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE
 OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR
 DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH
 HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program.  It is safest to
 attach
them to the start of each source file to most effectively convey the
 exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.

    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify it
    under the terms of the GNU General Public License as published by the
 Free
    Software Foundation; either version 2 of the License, or (at your
 option)
    any later version.

    This program is distributed in the hope that it will be useful, but
 WITHOUT
    ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
    FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 for
    more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
 59
    Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when
 it
starts in an interactive mode:
```

```
    Gnomovision version 69, Copyright (C) year name of author Gnomovision
 comes
    with ABSOLUTELY NO WARRANTY; for details type 'show w'.  This is free
    software, and you are welcome to redistribute it under certain
 conditions;
    type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may be
called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
 school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
 Here
is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    'Gnomovision' (which makes passes at compilers) written by James Hacker.

    signature of Ty Coon, 1 April 1989

    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General Public
License instead of this License.


"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's
 header
the words "Oracle designates this particular file as subject to the
 "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this
 code."

    Linking this library statically or dynamically with other modules is
 making
    a combined work based on this library.  Thus, the terms and conditions
 of
    the GNU General Public License cover the whole combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
 modules,
    and to copy and distribute the resulting executable under terms of your
    choice, provided that you also meet, for each linked independent module,
    the terms and conditions of the license of that module.  An independent
    module is a module which is not derived from or based on this library.
 If
    you modify this library, you may extend this exception to your version
 of
    the library, but you are not obligated to do so.  If you do not wish to
 do
    so, delete this exception statement from your version.
```

```
--------------------------------(separator)---------------------------------

3-Clause BSD License

Copyright <YEAR> <COPYRIGHT HOLDER>
Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
 contributors may be
used to endorse or promote products derived from this software without
 specific
prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
 OF SUCH
DAMAGE.


--------------------------------(separator)---------------------------------
BSD-2-Clause

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
```

```
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
 OF SUCH
DAMAGE.


--------------------------------(separator)---------------------------------
MIT No Attribution

Copyright [year] [fullname]

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Microsoft / Component(s): microsoft-graph-core 2.0.20

```
###########################
#### TOP LEVEL LICENSE ####
###########################

 com.microsoft.graph:microsoft-graph-core

 MIT License

Copyright (c) 2018 Microsoft Graph

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
```

```
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

##########################
#### TOP LEVEL NOTICE ####
##########################

 com.microsoft.graph:microsoft-graph-core

This file is based on or incorporates material from the projects listed
 below
(Third Party IP). The original copyright notice and the license under which
Microsoft received such Third Party IP, are set forth below. Such licenses
 and
notices are provided for informational purposes only. Microsoft licenses the
Third Party IP to you under the licensing terms for the Microsoft product.
Microsoft reserves all other rights not expressly granted under this
 agreement,
whether by implication, estoppel or otherwise.

Gson
Copyright 2008-2011 Google Inc.

Provided for Informational Purposes Only

Apache 2.0 License

Licensed under the Apache License, Version 2.0 (the "License"); See Apache
 License Version 2.0 below.

THIS CODE IS PROVIDED ON AN *AS IS* BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF
ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY
 IMPLIED
WARRANTIES OR CONDITIONS OF TITLE, FITNESS FOR A PARTICULAR PURPOSE,
MERCHANTABLITY OR NON-INFRINGEMENT.

See the Apache Version 2.0 License for specific language governing
 permissions
and limitations under the License.


#####################################################
### 4TH PARTY DEPENDENCIES LICENSES AND NOTICES ###
#####################################################


com.squareup.okhttp3:okhttp
com.squareup.okio:okio-jvm
org.jetbrains.kotlin:kotlin-stdlib-jdk8
org.jetbrains.kotlin:kotlin-stdlib-jdk7
org.jetbrains.kotlin:kotlin-stdlib-common
org.jetbrains.kotlin:kotlin-stdlib
org.jetbrains:annotations
com.squareup.okio:okio
```

```
com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.datatype:jackson-datatype-jsr310
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.core:jackson-core

io.projectreactor:reactor-core
com.google.guava:guava
com.google.guava:failureaccess
com.google.guava:listenablefuture
com.google.errorprone:error_prone_annotations
com.google.j2objc:j2objc-annotations
com.google.code.gson:gson




                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


--------------------------------------------------------------------------------

com.azure:azure-core
com.azure:azure-json

The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------------------------------------------------------
```

```
org.checkerframework:checker-qual

Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------

com.google.code.findbugs:jsr305


Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:
```

```
=== (NOTE: software below RELICENSED to Oracle under BSD 3-clause)

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

org.slf4j:slf4j-api

Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

org.reactivestreams:reactive-streams


MIT No Attribution

Copyright 2014 Reactive Streams
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


com.github.spotbugs:spotbugs-annotations

      GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

(This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.)

                             Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
```

```
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.
```

```
  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.
```

```
    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
```

```
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
```

```
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
```

```
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
```

```
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                     END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    {description}
    Copyright (C) {year} {fullname}

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301
    USA
```

```
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
  Hacker.

  {signature of Ty Coon}, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!


------------------------------------------------------------------------------------------

com.fasterxml.jackson.core:jackson-databind

LICENSE: Apache License Version 2.0

 See Apache License Version 2.0 above

NOTICE:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

----------------------------------------------------------------------


com.fasterxml.jackson.core:jackson-core


LICENSE: Apache License Version 2.0

 See Apache License Version 2.0 above


NOTICE:


# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
```

```
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

----------------------------------------------------------------------
```

Provider: Microsoft / Component(s): Monaco Editor 0.13.1

```
The MIT License (MIT)

Copyright (c) 2018 Microsoft Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Microsoft / Component(s): msal4j 1.13.10

```
###########################
#### TOP LEVEL LICENSE ####
###########################

com.microsoft.azure:msal4j

  MIT License

    Copyright (c) Microsoft Corporation. All rights reserved.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
```

```
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE



##########################
### 4TH PARTY LICENSES ###
##########################


com.nimbusds:oauth2-oidc-sdk
com.github.stephenc.jcip:jcip-annotations
com.nimbusds:content-type
com.nimbusds:lang-tag
com.nimbusds:nimbus-jose-jwt
net.minidev:json-smart
net.minidev:accessors-smart
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-core




                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



--------------------------------------------------------------------------


org.ow2.asm:asm

ASM is released under the following 3-Clause BSD License:
```

ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

---

org.slf4j:slf4j-api

SLF4J source code and binaries are distributed under the MIT license.

Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X
License or the X11 License, which is a simple, permissive non-copyleft
free software license. It is deemed compatible with virtually all types
of licenses, commercial or otherwise. In particular, the Free Software
Foundation has declared it compatible with GNU GPL. It is also known to

```
 be approved by the Apache Software Foundation as compatible with Apache
 Software License.


#################
#### NOTICES ####
#################


com.fasterxml.jackson.core:jackson-databind


# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


-------------------------------------------------------------------------------

com.fasterxml.jackson.core:jackson-core


# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

Provider: Microsoft Corporation / Component(s): mssql-jdbc 9.2.0.jre8

```
Copyright(c) 2020 Microsoft Corporation
All rights reserved.

MIT License
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files(the "Software"),
to deal in the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
and / or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions :

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
IN THE SOFTWARE.
```

Provider: Microsoft Corporation / Component(s): azure-core 1.37.0

```
###########################
#### TOP LEVEL LICENSE ####
###########################

com.azure:azure-core

The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
##########################
### 4TH PARTY LICENSES ###
##########################

com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-core
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.datatype:jackson-datatype-jsr310
io.projectreactor:reactor-core

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
```

```
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



org.reactivestreams:reactive-streams

MIT No Attribution

Copyright 2014 Reactive Streams

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



org.slf4j:slf4j-api

Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
```

```
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



#################
#### NOTICES ####
#################

com.azure:azure-core

NOTICES AND INFORMATION
Do Not Translate or Localize

This software incorporates material from third parties. Microsoft makes
 certain
open source code available at https://3rdpartysource.microsoft.com, or you
 may
send a check or money order for US $5.00, including the product name, the
 open
source component name, and version number, to:

Source Code Compliance Team
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
USA

Notwithstanding any other terms, you may reverse engineer this software to
 the
extent required to debug changes to any libraries licensed under the GNU
 Lesser
General Public License.

-------------------------------------------------------------------------------

Azure SDK for Java uses third-party libraries or other resources that may be
distributed under licenses different than the Azure SDK for Java software.

In the event that we accidentally failed to list a required notice, please
bring it to our attention. Post an issue or email us:

           azjavasdkhelp@microsoft.com

The attached notices are provided for information only.

License notice for Hamcrest
-------------------------------------------------------------------------------

The 3-Clause BSD License

Copyright (c) 2000-2015 www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of
```

```
conditions and the following disclaimer. Redistributions in binary form must
 reproduce
the above copyright notice, this list of conditions and the following
 disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used
 to endorse
or promote products derived from this software without specific prior
 written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
DAMAGE.

License notice for Slf4j API
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Slf4j Simple
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
```

```
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Guava (https://github.com/google/guava)
------------------------------------------------------------------------------

Copyright (C) 2010 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for Netty
------------------------------------------------------------------------------

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

License notice for JUG Java Uuid Generator
------------------------------------------------------------------------------

JUG Java Uuid Generator

Copyright (c) 2002- Tatu Saloranta, tatu.saloranta@iki.fi

Licensed under the License specified in the file LICENSE which is
included with the source code.
You may not use this file except in compliance with the License.
```

```
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


License notice for Jackson
-------------------------------------------------------------------------------

Copyright (c) 2007 Jackson Project

Jackson-annotations (http://github.com/FasterXML/jackson
Jackson-core (https://github.com/FasterXML/jackson-core
jackson-databind (http://github.com/FasterXML/jackson
Jackson-dataformat-XML (https://github.com/FasterXML/jackson-dataformat-xml)
Jackson datatype: JSR310 (https://github.com/FasterXML/jackson-modules-
java8/jackson-datatype-jsr310)
Jackson module: Afterburner (https://github.com/FasterXML/jackson-modules-
base)
Jackson module: JAXB Annotations (https://github.com/FasterXML/jackson-
modules-base)
Woodstox (https://github.com/FasterXML/woodstox)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for Metrics Core
-------------------------------------------------------------------------------

Copyright (c) 2010-2013 Coda Hale, Yammer.com, 2014-2020 Dropwizard Team

Metrics Core (https://github.com/dropwizard/metrics)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for micrometer-core
-------------------------------------------------------------------------------
```

```
Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.

micrometer-core (https://github.com/micrometer-metrics/micrometer)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for project Reactor
------------------------------------------------------------------------------

Copyright (c) 2011-2017 Pivotal Software Inc, All Rights Reserved.

Non-Blocking Reactive Foundation for the JVM (https://github.com/reactor/
reactor-core)
reactor-scala-extensions (https://github.com/reactor/reactor-scala-
extensions)
Reactive Streams Netty driver (https://github.com/reactor/reactor-netty)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for JavaBeans Activation Framework API
------------------------------------------------------------------------------

JavaBeans Activation Framework API jar (https://github.com/eclipse-ee4j/jaf/
jakarta.activation-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
```

```
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

jakarta.xml.bind-api (https://github.com/eclipse-ee4j/jaxb-api/
jakarta.xml.bind-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

```
License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

Stax2 API (http://github.com/FasterXML/stax2-api)
Copyright (c) 2008 FasterXML LLC info@fasterxml.com

This source code is licensed under standard BSD license, which is compatible
 with all Free and Open Software (OSS) licenses.


License notice for HdrHistogrami
-------------------------------------------------------------------------------
HdrHistogram (http://hdrhistogram.github.io/HdrHistogram/)

The code in this repository code was Written by Gil Tene, Michael Barker,
and Matt Warren, and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/

For users of this code who wish to consume it under the "BSD" license
rather than under the public domain or CC0 contribution text mentioned
above, the code found under this directory is *also* provided under the
following license (commonly referred to as the BSD 2-Clause License). This
license does not detract from the above stated release of the code into
the public domain, and simply represents an additional license granted by
the Author.

-----------------------------------------------------------------------------
** Beginning of "BSD 2-Clause License" text. **

 Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
 Copyright (c) 2014 Michael Barker
 Copyright (c) 2014 Matt Warren
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.


License notice for LatencyUtils
-------------------------------------------------------------------------------
```

```
LatencyUtils (http://latencyutils.github.io/LatencyUtils/)

  * This code was Written by Gil Tene of Azul Systems, and released to the
  * public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/

 For users of this code who wish to consume it under the "BSD" license
 rather than under the public domain or CC0 contribution text mentioned
 above, the code found under this directory is *also* provided under the
 following license (commonly referred to as the BSD 2-Clause License). This
 license does not detract from the above stated release of the code into
 the public domain, and simply represents an additional license granted by
 the Author.

 -----------------------------------------------------------------------------
 ** Beginning of "BSD 2-Clause License" text. **

  Copyright (c) 2012, 2013, 2014 Gil Tene
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
  THE POSSIBILITY OF SUCH DAMAGE.


License notice for reactive-streams
-------------------------------------------------------------------------------

reactive-streams (http://www.reactive-streams.org/)

Copyright Statement for Contributions to the Reactive Streams Project
======================================================================

I hereby represent that all present, past and future contributions I make to
the Reactive Streams project (which includes all repositories owned by the
“reactive-streams” github organization) are governed by the Creative Commons
Zero 1.0 Universal copyright statement, placing my contributions in the
 public
domain. This entails that to the extent possible under law I waive all
copyright and related or neighboring rights to the code or documents I
contribute. I also represent that I have the authority to perform the above
waiver with respect to the entirety of my contributions.
```

```
The text of the copyright statement is included in the COPYING file at the
 root
of the reactive-streams repository at
https://github.com/reactive-streams/reactive-streams-jvm/blob/master/
COPYING.

Underwriting parties:

github name    | Real Name, Email Address used for git commits, Company
---------------
+-------------------------------------------------------------------------------
rkuhn          | Roland Kuhn, rk@rkuhn.info, Typesafe Inc.
benjchristensen| Ben Christensen, benjchristensen@gmail.com, Netflix Inc.
viktorklang    | Viktor Klang, viktor.klang@gmail.com, Typesafe Inc.
smaldini       | Stephane Maldini, stephane.maldini@gmail.com, Pivotal
 Software Inc.
savulchik      | Stanislav Savulchik, s.savulchik@gmail.com
ktoso          | Konrad Malawski, konrad.malawski@project13.pl, Typesafe
 Inc.
ouertani       | Slim Ouertani, ouertani@gmail.com
2m             | Martynas Mickevičius, mmartynas@gmail.com, Typesafe Inc.
ldaley         | Luke Daley, luke.daley@gradleware.com, Gradleware Inc.
colinrgodsey   | Colin Godsey, crgodsey@gmail.com, MediaMath Inc.
davidmoten     | Dave Moten, davidmoten@gmail.com
briantopping   | Brian Topping, brian.topping@gmail.com, Mauswerks LLC
rstoyanchev    | Rossen Stoyanchev, rstoyanchev@pivotal.io, Pivotal
BjornHamels    | Björn Hamels, bjorn@hamels.nl
JakeWharton    | Jake Wharton, jakewharton@gmail.com
anthonyvdotbe  | Anthony Vanelverdinghe, anthonyv.be@outlook.com
seratch        | Kazuhiro Sera, seratch@gmail.com, SmartNews, Inc.
akarnokd       | David Karnok, akarnokd@gmail.com
egetman        | Evgeniy Getman, getman.eugene@gmail.com
patriknw       | Patrik Nordwall, patrik.nordwall@gmail.com, Lightbend Inc
angelsanz      | Ángel Sanz, angelsanz@users.noreply.github.com
shenghaiyang   | 盛海洋, shenghaiyang@aliyun.com
kiiadi         | Kyle Thomson, kylthoms@amazon.com, Amazon.com
jroper         | James Roper, james@jazzy.id.au, Lightbend Inc.
olegdokuka     | Oleh Dokuka, shadowgun@.i.ua, Netifi Inc.
Scottmitch     | Scott Mitchell, scott_mitchell@apple.com, Apple Inc.
retronym       | Jason Zaugg, jzaugg@gmail.com, Lightbend Inc.

Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with
this code has waived all copyright and related or neighboring
rights to this code.

You should have received a copy of the CC0 legalcode along with this
work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.

License notice for Bouncy Castle
--------------------------------------------------------------------------------

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated
documentation files (the "Software"), to deal in the Software without
 restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and
```

```
to permit persons to whom the Software is furnished to do so, subject to the
 following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


License notice for KeePassJava2
-------------------------------------------------------------------------------

Copyright 2015 Jo Rabin

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

License notice for openkeepass
-------------------------------------------------------------------------------

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

Openkeepass License Link: https://github.com/cternes/openkeepass/blob/
master/LICENSE.txt
-------------------------------------------------------------------------------------------

License notice for Apache Commons
-------------------------------------------------------------------------------

Copyright 2002-2019 The Apache Software Foundation

commons-codec (https://github.com/apache/commons-codec)
commons-text (https://github.com/apache/commons-text)
commons-lang (https://github.com/apache/commons-lang)
commons-collections (https://github.com/apache/commons-collections)
```

```
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express or implied.
See the License for the specific language governing permissions and
 limitations under the License.

-------------------------------------------------------------------------------------------

License notice for GraalVM
-------------------------------------------------------------------------------
org.graalvm.sdk:graal-sdk - https://github.com/graalvm/native-build-tools/
blob/master/common/junit-platform-native/LICENSE
The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
 any person obtaining a copy of this software,
associated documentation and/or data (collectively the "Software"), free of
 charge and under any and all copyright rights
in the Software, and any and all patent rights owned or freely licensable by
 each licensor hereunder covering either
(i) the unmodified Software as contributed to or provided by such licensor,
 or (ii) the Larger Works (as defined below),
to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
 one is included with the Software each a
"Larger Work" to which the Software is contributed by such licensors),
 without restriction, including without limitation
the rights to copy, create derivative works of, display, perform, and
 distribute the Software and make, use, sell, offer
for sale, import, export, have made, and have sold the Software and the
 Larger Work(s), and to sublicense the foregoing
rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at
 a minimum a reference to the UPL must be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------------------

License notice for JUnit platform native plugin
-------------------------------------------------------------------------------
org.graalvm.buildtools:junit-platform-native - https://github.com/graalvm/
native-build-tools/blob/master/common/junit-platform-native/LICENSE
```

Copyright (c) 2020, 2021, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
 any
person obtaining a copy of this software, associated documentation and/or
data (collectively the "Software"), free of charge and under any and all
copyright rights in the Software, and any and all patent rights owned or
freely licensable by each licensor hereunder covering either (i) the
unmodified Software as contributed to or provided by such licensor, or (ii)
the Larger Works (as defined below), to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
one is included with the Software each a "Larger Work" to which the Software
is contributed by such licensors),

without restriction, including without limitation the rights to copy, create
derivative works of, display, perform, and distribute the Software and make,
use, sell, offer for sale, import, export, have made, and have sold the
Software and the Larger Work(s), and to sublicense the foregoing rights on
either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at
 a
minimum a reference to the UPL must be included in all copies or substantial
portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.core:jackson-core

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

Credits

```
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

Provider: Microsoft Corporation / Component(s): azure-core-http-netty 1.13.9

```
------------------------------- Top-level dependency
 --------------------------------

azure-core-http-netty
──────────────── LICENSE ────────────────

The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


──────────────── NOTICE ────────────────

Copyright:
# Copyright (c) Microsoft Corporation. All rights reserved.


NOTICES AND INFORMATION
Do Not Translate or Localize

This software incorporates material from third parties. Microsoft makes
 certain
open source code available at https://3rdpartysource.microsoft.com, or you
 may
send a check or money order for US $5.00, including the product name, the
 open
source component name, and version number, to:

Source Code Compliance Team
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
```

```
USA

Notwithstanding any other terms, you may reverse engineer this software to
 the
extent required to debug changes to any libraries licensed under the GNU
 Lesser
General Public License.

--------------------------------------------------------------------------------

Azure SDK for Java uses third-party libraries or other resources that may be
distributed under licenses different than the Azure SDK for Java software.

In the event that we accidentally failed to list a required notice, please
bring it to our attention. Post an issue or email us:

           azjavasdkhelp@microsoft.com

The attached notices are provided for information only.

License notice for Hamcrest
--------------------------------------------------------------------------------

The 3-Clause BSD License

Copyright (c) 2000-2015 www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of
conditions and the following disclaimer. Redistributions in binary form must
 reproduce
the above copyright notice, this list of conditions and the following
 disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used
 to endorse
or promote products derived from this software without specific prior
 written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
DAMAGE.
```

License notice for Slf4j API

Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Slf4j Simple

Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Guava (https://github.com/google/guava)

Copyright (C) 2010 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

```
Apache License<br>Version 2.0, January 2004<br>http://www.apache.org/
licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
```

```
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
* You must give any other recipients of the Work or Derivative Works a copy
 of this License; and
* You must cause any modified files to carry prominent notices stating that
 You changed the files; and
* You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
* If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.
```

```
9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS


Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for Netty
--------------------------------------------------------------------------------

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  = Apache 2.0 License text as above

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

License notice for JUG Java Uuid Generator
--------------------------------------------------------------------------------

JUG Java Uuid Generator

Copyright (c) 2002- Tatu Saloranta, tatu.saloranta@iki.fi

Licensed under the License specified in the file LICENSE which is
included with the source code.
You may not use this file except in compliance with the License.

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


License notice for Jackson
--------------------------------------------------------------------------------

Copyright (c) 2007 Jackson Project

Jackson-annotations (http://github.com/FasterXML/jackson
Jackson-core (https://github.com/FasterXML/jackson-core
jackson-databind (http://github.com/FasterXML/jackson
Jackson-dataformat-XML (https://github.com/FasterXML/jackson-dataformat-xml)
```

```
Jackson datatype: JSR310 (https://github.com/FasterXML/jackson-modules-
java8/jackson-datatype-jsr310)
Jackson module: Afterburner (https://github.com/FasterXML/jackson-modules-
base)
Jackson module: JAXB Annotations (https://github.com/FasterXML/jackson-
modules-base)
Woodstox (https://github.com/FasterXML/woodstox)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

  = Apache 2.0 License text as above

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for Metrics Core
-------------------------------------------------------------------------------

Copyright (c) 2010-2013 Coda Hale, Yammer.com, 2014-2020 Dropwizard Team

Metrics Core (https://github.com/dropwizard/metrics)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

  = Apache 2.0 License text as above

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for micrometer-core
-------------------------------------------------------------------------------

Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.

micrometer-core (https://github.com/micrometer-metrics/micrometer)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

  = Apache 2.0 License text as above

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.
```

```
License notice for project Reactor
--------------------------------------------------------------------------------

Copyright (c) 2011-2017 Pivotal Software Inc, All Rights Reserved.

Non-Blocking Reactive Foundation for the JVM (https://github.com/reactor/
reactor-core)
reactor-scala-extensions (https://github.com/reactor/reactor-scala-
extensions)
Reactive Streams Netty driver (https://github.com/reactor/reactor-netty)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

  = Apache 2.0 License text as above

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for JavaBeans Activation Framework API
--------------------------------------------------------------------------------

JavaBeans Activation Framework API jar (https://github.com/eclipse-ee4j/jaf/
jakarta.activation-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
```

```
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

jakarta.xml.bind-api (https://github.com/eclipse-ee4j/jaxb-api/
jakarta.xml.bind-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

Stax2 API (http://github.com/FasterXML/stax2-api)
Copyright (c) 2008 FasterXML LLC info@fasterxml.com

This source code is licensed under standard BSD license, which is compatible
 with all Free and Open Software (OSS) licenses.


License notice for HdrHistogrami
-------------------------------------------------------------------------------
HdrHistogram (http://hdrhistogram.github.io/HdrHistogram/)

The code in this repository code was Written by Gil Tene, Michael Barker,
and Matt Warren, and released to the public domain, as explained at
```

```
http://creativecommons.org/publicdomain/zero/1.0/

For users of this code who wish to consume it under the "BSD" license
rather than under the public domain or CC0 contribution text mentioned
above, the code found under this directory is *also* provided under the
following license (commonly referred to as the BSD 2-Clause License). This
license does not detract from the above stated release of the code into
the public domain, and simply represents an additional license granted by
the Author.

-----------------------------------------------------------------------------
** Beginning of "BSD 2-Clause License" text. **

 Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
 Copyright (c) 2014 Michael Barker
 Copyright (c) 2014 Matt Warren
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.


License notice for LatencyUtils
-------------------------------------------------------------------------------

LatencyUtils (http://latencyutils.github.io/LatencyUtils/)

  * This code was Written by Gil Tene of Azul Systems, and released to the
  * public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/

 For users of this code who wish to consume it under the "BSD" license
 rather than under the public domain or CC0 contribution text mentioned
 above, the code found under this directory is *also* provided under the
 following license (commonly referred to as the BSD 2-Clause License). This
 license does not detract from the above stated release of the code into
 the public domain, and simply represents an additional license granted by
 the Author.

 -----------------------------------------------------------------------------
 ** Beginning of "BSD 2-Clause License" text. **

  Copyright (c) 2012, 2013, 2014 Gil Tene
```

```
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
  THE POSSIBILITY OF SUCH DAMAGE.


License notice for reactive-streams
-------------------------------------------------------------------------------

reactive-streams (http://www.reactive-streams.org/)

Copyright Statement for Contributions to the Reactive Streams Project
======================================================================

I hereby represent that all present, past and future contributions I make to
the Reactive Streams project (which includes all repositories owned by the
“reactive-streams” github organization) are governed by the Creative Commons
Zero 1.0 Universal copyright statement, placing my contributions in the
 public
domain. This entails that to the extent possible under law I waive all
copyright and related or neighboring rights to the code or documents I
contribute. I also represent that I have the authority to perform the above
waiver with respect to the entirety of my contributions.

The text of the copyright statement is included in the COPYING file at the
 root
of the reactive-streams repository at
https://github.com/reactive-streams/reactive-streams-jvm/blob/master/
COPYING.

Underwriting parties:

github name    | Real Name, Email Address used for git commits, Company
---------------
+-------------------------------------------------------------------------------
rkuhn          | Roland Kuhn, rk@rkuhn.info, Typesafe Inc.
benjchristensen| Ben Christensen, benjchristensen@gmail.com, Netflix Inc.
viktorklang    | Viktor Klang, viktor.klang@gmail.com, Typesafe Inc.
smaldini       | Stephane Maldini, stephane.maldini@gmail.com, Pivotal
 Software Inc.
savulchik      | Stanislav Savulchik, s.savulchik@gmail.com
```

```
ktoso           | Konrad Malawski, konrad.malawski@project13.pl, Typesafe
 Inc.
ouertani        | Slim Ouertani, ouertani@gmail.com
2m              | Martynas Mickevičius, mmartynas@gmail.com, Typesafe Inc.
ldaley          | Luke Daley, luke.daley@gradleware.com, Gradleware Inc.
colinrgodsey    | Colin Godsey, crgodsey@gmail.com, MediaMath Inc.
davidmoten      | Dave Moten, davidmoten@gmail.com
briantopping    | Brian Topping, brian.topping@gmail.com, Mauswerks LLC
rstoyanchev     | Rossen Stoyanchev, rstoyanchev@pivotal.io, Pivotal
BjornHamels     | Björn Hamels, bjorn@hamels.nl
JakeWharton     | Jake Wharton, jakewharton@gmail.com
anthonyvdotbe   | Anthony Vanelverdinghe, anthonyv.be@outlook.com
seratch         | Kazuhiro Sera, seratch@gmail.com, SmartNews, Inc.
akarnokd        | David Karnok, akarnokd@gmail.com
egetman         | Evgeniy Getman, getman.eugene@gmail.com
patriknw        | Patrik Nordwall, patrik.nordwall@gmail.com, Lightbend Inc
angelsanz       | Ángel Sanz, angelsanz@users.noreply.github.com
shenghaiyang    | 盛海洋, shenghaiyang@aliyun.com
kiiadi          | Kyle Thomson, kylthoms@amazon.com, Amazon.com
jroper          | James Roper, james@jazzy.id.au, Lightbend Inc.
olegdokuka      | Oleh Dokuka, shadowgun@.i.ua, Netifi Inc.
Scottmitch      | Scott Mitchell, scott_mitchell@apple.com, Apple Inc.
retronym        | Jason Zaugg, jzaugg@gmail.com, Lightbend Inc.

Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with
this code has waived all copyright and related or neighboring
rights to this code.

You should have received a copy of the CC0 legalcode along with this
work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.

License notice for Bouncy Castle
--------------------------------------------------------------------------------

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated
documentation files (the "Software"), to deal in the Software without
 restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and
to permit persons to whom the Software is furnished to do so, subject to the
 following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


License notice for KeePassJava2
--------------------------------------------------------------------------------
```

```
Copyright 2015 Jo Rabin

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   = Apache 2.0 License text as above

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

License notice for openkeepass
-------------------------------------------------------------------------------

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

  = Apache 2.0 License text as above

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

Openkeepass License Link: https://github.com/cternes/openkeepass/blob/
master/LICENSE.txt
-----------------------------------------------------------------------------------------

License notice for Apache Commons
-------------------------------------------------------------------------------

Copyright 2002-2019 The Apache Software Foundation

commons-codec (https://github.com/apache/commons-codec)
commons-text (https://github.com/apache/commons-text)
commons-lang (https://github.com/apache/commons-lang)
commons-collections (https://github.com/apache/commons-collections)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

  = Apache 2.0 License text as above

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express or implied.
See the License for the specific language governing permissions and
 limitations under the License.

-----------------------------------------------------------------------------------------

License notice for GraalVM
-------------------------------------------------------------------------------
org.graalvm.sdk:graal-sdk - https://github.com/graalvm/native-build-tools/
blob/master/common/junit-platform-native/LICENSE
```

```
The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
 any person obtaining a copy of this software,
associated documentation and/or data (collectively the "Software"), free of
 charge and under any and all copyright rights
in the Software, and any and all patent rights owned or freely licensable by
 each licensor hereunder covering either
(i) the unmodified Software as contributed to or provided by such licensor,
 or (ii) the Larger Works (as defined below),
to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
 one is included with the Software each a
"Larger Work" to which the Software is contributed by such licensors),
 without restriction, including without limitation
the rights to copy, create derivative works of, display, perform, and
 distribute the Software and make, use, sell, offer
for sale, import, export, have made, and have sold the Software and the
 Larger Work(s), and to sublicense the foregoing
rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at
 a minimum a reference to the UPL must be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------------------

License notice for JUnit platform native plugin
-------------------------------------------------------------------------------
org.graalvm.buildtools:junit-platform-native - https://github.com/graalvm/
native-build-tools/blob/master/common/junit-platform-native/LICENSE

Copyright (c) 2020, 2021, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
 any
person obtaining a copy of this software, associated documentation and/or
data (collectively the "Software"), free of charge and under any and all
copyright rights in the Software, and any and all patent rights owned or
freely licensable by each licensor hereunder covering either (i) the
unmodified Software as contributed to or provided by such licensor, or (ii)
the Larger Works (as defined below), to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
one is included with the Software each a "Larger Work" to which the Software
```

```
is contributed by such licensors),

without restriction, including without limitation the rights to copy, create
derivative works of, display, perform, and distribute the Software and make,
use, sell, offer for sale, import, export, have made, and have sold the
Software and the Larger Work(s), and to sublicense the foregoing rights on
either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at
 a
minimum a reference to the UPL must be included in all copies or substantial
portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


License:
Licensed under the MIT License.





———————————Fourth-Party Dependency information -----------------------

com.azure:azure-core


LICENSE
——————————————————————————<br><br>The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.


NOTICE
_________________________


NOTICES AND INFORMATION
Do Not Translate or Localize

This software incorporates material from third parties. Microsoft makes
 certain
open source code available at https://3rdpartysource.microsoft.com, or you
 may
send a check or money order for US $5.00, including the product name, the
 open
source component name, and version number, to:

Source Code Compliance Team
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
USA

Notwithstanding any other terms, you may reverse engineer this software to
 the
extent required to debug changes to any libraries licensed under the GNU
 Lesser
General Public License.

-------------------------------------------------------------------------------

This file list any third-party libraries or other resources that may be
distributed under licenses different than the Azure SDK for .NET software.

In the event that we accidentally failed to list a required notice, please
bring it to our attention by opening an issue.

The attached notices are provided for information only.

// Copyright (c) .NET Foundation. All rights reserved.
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
```

```
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

License notice for OpenTelemetry .NET (https://github.com/open-telemetry/
opentelemetry-dotnet)
-------------------------------------------------------------------------------------------

Copyright 2023 OpenTelemetry Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

        = Apache 2.0 License text as above
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.




Netty Dependencies
──────────────────
io.netty:netty-handler
io.netty:netty-common
io.netty:netty-resolver
io.netty:netty-buffer
io.netty:netty-transport
io.netty:netty-codec
io.netty:netty-handler-proxy
io.netty:netty-codec-socks
io.netty:netty-codec-http
io.netty:netty-codec-http2
io.netty:netty-transport-native-unix-common
io.netty:netty-transport-native-kqueue
io.netty:netty-transport-classes-kqueue
io.netty:netty-tcnative-boringssl-static
io.netty:netty-resolver-dns
io.netty:netty-codec-dns
io.netty:netty-resolver-dns-native-macos
io.netty:netty-resolver-dns-classes-macos



LICENSE
───────────────────

 Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

         = Apache 2.0 License text as above

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


NOTICE
─────────────────── <br>
                         The Netty Project
                           =================

Please visit the Netty web site for more information:

  * https://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
```

```
 = Apache 2.0 License text as above

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.

  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

-------------------------------------------------------------------------------
This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
```

```
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuate of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.

  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

--------------------------------------------------------------------------------
This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
(BSD License: https://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.

* Neither the name of the Webbit nor the names of
  its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

--------------------------------------------------------------------------------
This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
/*
 * Copyright (c) 2004-2007 QOS.ch
 * All rights reserved.
 *
 * Permission is hereby granted, free  of charge, to any person obtaining
 * a  copy  of this  software  and  associated  documentation files  (the
 * "Software"), to  deal in  the Software without  restriction, including
 * without limitation  the rights to  use, copy, modify,  merge, publish,
 * distribute,  sublicense, and/or sell  copies of  the Software,  and to
 * permit persons to whom the Software  is furnished to do so, subject to
 * the following conditions:
 *
 * The  above  copyright  notice  and  this permission  notice  shall  be
 * included in all copies or substantial portions of the Software.
 *
 * THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 * EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 * MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 * LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 * OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 * WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */

  * HOMEPAGE:
    * https://www.slf4j.org/

--------------------------------------------------------------------------------
This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
```

```
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)
= Apache 2.0 License text as above

  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/

--------------------------------------------------------------------------------
This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2
 Project

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

--------------------------------------------------------------------------------
This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

--------------------------------------------------------------------------------
This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
 = Apache 2.0 License text as above

  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

--------------------------------------------------------------------------------
This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights
 reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
 distribution.

  3. The names of the authors may not be used to endorse or promote products
     derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

--------------------------------------------------------------------------------
```

```
This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
 under
the License.

  * HOMEPAGE:
    * https://github.com/ning/compress

--------------------------------------------------------------------------------
This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
= Apache 2.0 License text as above

  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java

--------------------------------------------------------------------------------
This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
= Apache 2.0 License text as above

  * HOMEPAGE:
    * https://github.com/jponge/lzma-java

--------------------------------------------------------------------------------
This product optionally depends on 'zstd-jni', a zstd-jni Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.zstd-jni.txt (Apache License 2.0)
= Apache 2.0 License text as above

  * HOMEPAGE:
    * https://github.com/luben/zstd-jni

--------------------------------------------------------------------------------
This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
```

```
The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

--------------------------------------------------------------------------------
This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc.  All rights reserved.
https://developers.google.com/protocol-buffers/

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

  * HOMEPAGE:
    * https://github.com/google/protobuf

--------------------------------------------------------------------------------
This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
                          (https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

  * HOMEPAGE:
    * https://www.bouncycastle.org/

--------------------------------------------------------------------------------
This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  * HOMEPAGE:
    * https://github.com/google/snappy

--------------------------------------------------------------------------------
This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
Apache License 2.0 here
= Apache 2.0 License text as above

  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling

--------------------------------------------------------------------------------
This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
Apache License 2.0 here
= Apache 2.0 License text as above

  * HOMEPAGE:
    * https://github.com/google/caliper

--------------------------------------------------------------------------------
This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
Apache License 2.0 here
= Apache 2.0 License text as above

  * HOMEPAGE:
    * https://commons.apache.org/logging/

--------------------------------------------------------------------------------
This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
Apache License 2.0 here <br>= Apache 2.0 License text as above

  * HOMEPAGE:
```

```
    * https://logging.apache.org/log4j/

--------------------------------------------------------------------------------
This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
This copy of Aalto XML processor is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

 = Apache 2.0 License text as above

A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases,
that file should be located next to this file: in source distribution
the location should be "release-notes/asl"; and in jar "META-INF/"

  * HOMEPAGE:
    * https://wiki.fasterxml.com/AaltoHome

--------------------------------------------------------------------------------
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
Apache License 2.0 here
= Apache 2.0 License text as above

  * HOMEPAGE:
    * https://github.com/twitter/hpack

--------------------------------------------------------------------------------
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/

--------------------------------------------------------------------------------
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:

  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/

--------------------------------------------------------------------------------
This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
   = Apache 2.0 License text as above

  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/

--------------------------------------------------------------------------------
This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
Apache License 2.0 here = Apache 2.0 License text as above
```

```
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper

--------------------------------------------------------------------------------
This product contains the dnsinfo.h header file, that provides a way to
 retrieve the system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
/*
 * Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.
 *
 * @APPLE_LICENSE_HEADER_START@
 *
 * This file contains Original Code and/or Modifications of Original Code
 * as defined in and that are subject to the Apple Public Source License
 * Version 2.0 (the 'License'). You may not use this file except in
 * compliance with the License. Please obtain a copy of the License at
 * https://www.opensource.apple.com/apsl/ and read it before using this
 * file.
 *
 * The Original Code and all software distributed under the License are
 * distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
 * EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
 * INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
 * Please see the License for the specific language governing rights and
 * limitations under the License.
 *
 * @APPLE_LICENSE_HEADER_END@
 */

  * HOMEPAGE:
    * https://www.opensource.apple.com/source/configd/configd-453.19/
dnsinfo/dnsinfo.h

--------------------------------------------------------------------------------
This product optionally depends on 'Brotli4j', Brotli compression and
decompression for Java., which can be obtained at:

  * LICENSE:
    * license/LICENSE.brotli4j.txt (Apache License 2.0)
= Apache 2.0 License text as above

  * HOMEPAGE:
    * https://github.com/hyperxpro/Brotli4j




 Projectreactor dependencies
_________________

io.projectreactor.netty:reactor-netty-core
io.projectreactor.netty:reactor-netty-http
io.projectreactor:reactor-core


LICENSE
____________________


   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
```

```
   You may obtain a copy of the License at

     = Apache 2.0 License text as above

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



NOTICE
__________________


* Copyright (c) 2018-2022 VMware, Inc. or its affiliates, All Rights
 Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *  = Apache 2.0 License text as above
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
```

Provider: Microsoft Corporation / Component(s): azure-core-management 1.11.3

```
###########################
#### TOP LEVEL LICENSE ####
###########################

com.azure:azure-core-management

The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



##########################
### 4TH PARTY LICENSES ###
##########################

com.azure:azure-core
com.azure:azure-json


The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-core
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.datatype:jackson-datatype-jsr310
io.projectreactor:reactor-core

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



org.reactivestreams:reactive-streams
```

```
MIT No Attribution

Copyright 2014 Reactive Streams

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



org.slf4j:slf4j-api

Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



#################
#### NOTICES ####
#################

com.azure:azure-core-management
com.azure:azure-core
com.azure:azure-json

NOTICES AND INFORMATION
Do Not Translate or Localize

This software incorporates material from third parties. Microsoft makes
 certain
open source code available at https://3rdpartysource.microsoft.com, or you
 may
send a check or money order for US $5.00, including the product name, the
 open
```

```
source component name, and version number, to:

Source Code Compliance Team
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
USA

Notwithstanding any other terms, you may reverse engineer this software to
 the
extent required to debug changes to any libraries licensed under the GNU
 Lesser
General Public License.

--------------------------------------------------------------------------------

Azure SDK for Java uses third-party libraries or other resources that may be
distributed under licenses different than the Azure SDK for Java software.

In the event that we accidentally failed to list a required notice, please
bring it to our attention. Post an issue or email us:

           azjavasdkhelp@microsoft.com

The attached notices are provided for information only.

License notice for Hamcrest
--------------------------------------------------------------------------------

The 3-Clause BSD License

Copyright (c) 2000-2015 www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of
conditions and the following disclaimer. Redistributions in binary form must
 reproduce
the above copyright notice, this list of conditions and the following
 disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used
 to endorse
or promote products derived from this software without specific prior
 written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
```

```
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
DAMAGE.

License notice for Slf4j API
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Slf4j Simple
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Guava (https://github.com/google/guava)
-------------------------------------------------------------------------------

Copyright (C) 2010 The Guava Authors
```

```
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for Netty
--------------------------------------------------------------------------------

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

License notice for JUG Java Uuid Generator
--------------------------------------------------------------------------------

JUG Java Uuid Generator

Copyright (c) 2002- Tatu Saloranta, tatu.saloranta@iki.fi

Licensed under the License specified in the file LICENSE which is
included with the source code.
You may not use this file except in compliance with the License.

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


License notice for Jackson
--------------------------------------------------------------------------------

Copyright (c) 2007 Jackson Project

Jackson-annotations (http://github.com/FasterXML/jackson
Jackson-core (https://github.com/FasterXML/jackson-core
jackson-databind (http://github.com/FasterXML/jackson
Jackson-dataformat-XML (https://github.com/FasterXML/jackson-dataformat-xml)
Jackson datatype: JSR310 (https://github.com/FasterXML/jackson-modules-
java8/jackson-datatype-jsr310)
Jackson module: Afterburner (https://github.com/FasterXML/jackson-modules-
base)
Jackson module: JAXB Annotations (https://github.com/FasterXML/jackson-
modules-base)
```

```
Woodstox (https://github.com/FasterXML/woodstox)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for Metrics Core
-------------------------------------------------------------------------------

Copyright (c) 2010-2013 Coda Hale, Yammer.com, 2014-2020 Dropwizard Team

Metrics Core (https://github.com/dropwizard/metrics)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for micrometer-core
-------------------------------------------------------------------------------

Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.

micrometer-core (https://github.com/micrometer-metrics/micrometer)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for project Reactor
-------------------------------------------------------------------------------

Copyright (c) 2011-2017 Pivotal Software Inc, All Rights Reserved.
```

```
Non-Blocking Reactive Foundation for the JVM (https://github.com/reactor/
reactor-core)
reactor-scala-extensions (https://github.com/reactor/reactor-scala-
extensions)
Reactive Streams Netty driver (https://github.com/reactor/reactor-netty)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for JavaBeans Activation Framework API
-------------------------------------------------------------------------------

JavaBeans Activation Framework API jar (https://github.com/eclipse-ee4j/jaf/
jakarta.activation-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

```
License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

jakarta.xml.bind-api (https://github.com/eclipse-ee4j/jaxb-api/
jakarta.xml.bind-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

Stax2 API (http://github.com/FasterXML/stax2-api)
Copyright (c) 2008 FasterXML LLC info@fasterxml.com

This source code is licensed under standard BSD license, which is compatible
 with all Free and Open Software (OSS) licenses.


License notice for HdrHistogrami
-------------------------------------------------------------------------------
HdrHistogram (http://hdrhistogram.github.io/HdrHistogram/)

The code in this repository code was Written by Gil Tene, Michael Barker,
and Matt Warren, and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/

For users of this code who wish to consume it under the "BSD" license
rather than under the public domain or CC0 contribution text mentioned
above, the code found under this directory is *also* provided under the
following license (commonly referred to as the BSD 2-Clause License). This
```

```
license does not detract from the above stated release of the code into
the public domain, and simply represents an additional license granted by
the Author.

-----------------------------------------------------------------------------
** Beginning of "BSD 2-Clause License" text. **

 Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
 Copyright (c) 2014 Michael Barker
 Copyright (c) 2014 Matt Warren
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.


License notice for LatencyUtils
-------------------------------------------------------------------------------

LatencyUtils (http://latencyutils.github.io/LatencyUtils/)

  * This code was Written by Gil Tene of Azul Systems, and released to the
  * public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/

 For users of this code who wish to consume it under the "BSD" license
 rather than under the public domain or CC0 contribution text mentioned
 above, the code found under this directory is *also* provided under the
 following license (commonly referred to as the BSD 2-Clause License). This
 license does not detract from the above stated release of the code into
 the public domain, and simply represents an additional license granted by
 the Author.

 -----------------------------------------------------------------------------
 ** Beginning of "BSD 2-Clause License" text. **

  Copyright (c) 2012, 2013, 2014 Gil Tene
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:
```

```
  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
  THE POSSIBILITY OF SUCH DAMAGE.


License notice for reactive-streams
-------------------------------------------------------------------------------

reactive-streams (http://www.reactive-streams.org/)

Copyright Statement for Contributions to the Reactive Streams Project
======================================================================

I hereby represent that all present, past and future contributions I make to
the Reactive Streams project (which includes all repositories owned by the
“reactive-streams” github organization) are governed by the Creative Commons
Zero 1.0 Universal copyright statement, placing my contributions in the
 public
domain. This entails that to the extent possible under law I waive all
copyright and related or neighboring rights to the code or documents I
contribute. I also represent that I have the authority to perform the above
waiver with respect to the entirety of my contributions.

The text of the copyright statement is included in the COPYING file at the
 root
of the reactive-streams repository at
https://github.com/reactive-streams/reactive-streams-jvm/blob/master/
COPYING.

Underwriting parties:

github name    | Real Name, Email Address used for git commits, Company
---------------
+-------------------------------------------------------------------------------
rkuhn          | Roland Kuhn, rk@rkuhn.info, Typesafe Inc.
benjchristensen| Ben Christensen, benjchristensen@gmail.com, Netflix Inc.
viktorklang    | Viktor Klang, viktor.klang@gmail.com, Typesafe Inc.
smaldini       | Stephane Maldini, stephane.maldini@gmail.com, Pivotal
 Software Inc.
savulchik      | Stanislav Savulchik, s.savulchik@gmail.com
ktoso          | Konrad Malawski, konrad.malawski@project13.pl, Typesafe
 Inc.
ouertani       | Slim Ouertani, ouertani@gmail.com
2m             | Martynas Mickevičius, mmartynas@gmail.com, Typesafe Inc.
ldaley         | Luke Daley, luke.daley@gradleware.com, Gradleware Inc.
colinrgodsey   | Colin Godsey, crgodsey@gmail.com, MediaMath Inc.
```

```
davidmoten      | Dave Moten, davidmoten@gmail.com
briantopping    | Brian Topping, brian.topping@gmail.com, Mauswerks LLC
rstoyanchev     | Rossen Stoyanchev, rstoyanchev@pivotal.io, Pivotal
BjornHamels     | Björn Hamels, bjorn@hamels.nl
JakeWharton     | Jake Wharton, jakewharton@gmail.com
anthonyvdotbe   | Anthony Vanelverdinghe, anthonyv.be@outlook.com
seratch         | Kazuhiro Sera, seratch@gmail.com, SmartNews, Inc.
akarnokd        | David Karnok, akarnokd@gmail.com
egetman         | Evgeniy Getman, getman.eugene@gmail.com
patriknw        | Patrik Nordwall, patrik.nordwall@gmail.com, Lightbend Inc
angelsanz       | Ángel Sanz, angelsanz@users.noreply.github.com
shenghaiyang    | 盛海洋, shenghaiyang@aliyun.com
kiiadi          | Kyle Thomson, kylthoms@amazon.com, Amazon.com
jroper          | James Roper, james@jazzy.id.au, Lightbend Inc.
olegdokuka      | Oleh Dokuka, shadowgun@.i.ua, Netifi Inc.
Scottmitch      | Scott Mitchell, scott_mitchell@apple.com, Apple Inc.
retronym        | Jason Zaugg, jzaugg@gmail.com, Lightbend Inc.

Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with
this code has waived all copyright and related or neighboring
rights to this code.

You should have received a copy of the CC0 legalcode along with this
work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.

License notice for Bouncy Castle
--------------------------------------------------------------------------------

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated
documentation files (the "Software"), to deal in the Software without
 restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and
to permit persons to whom the Software is furnished to do so, subject to the
 following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


License notice for KeePassJava2
--------------------------------------------------------------------------------

Copyright 2015 Jo Rabin

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

License notice for openkeepass
-------------------------------------------------------------------------------

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

Openkeepass License Link: https://github.com/cternes/openkeepass/blob/
master/LICENSE.txt
-----------------------------------------------------------------------------------------

License notice for Apache Commons
-------------------------------------------------------------------------------

Copyright 2002-2019 The Apache Software Foundation

commons-codec (https://github.com/apache/commons-codec)
commons-text (https://github.com/apache/commons-text)
commons-lang (https://github.com/apache/commons-lang)
commons-collections (https://github.com/apache/commons-collections)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express or implied.
See the License for the specific language governing permissions and
 limitations under the License.

-----------------------------------------------------------------------------------------

License notice for GraalVM
-------------------------------------------------------------------------------
org.graalvm.sdk:graal-sdk - https://github.com/graalvm/native-build-tools/
blob/master/common/junit-platform-native/LICENSE
The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
 any person obtaining a copy of this software,
associated documentation and/or data (collectively the "Software"), free of
 charge and under any and all copyright rights
```

```
in the Software, and any and all patent rights owned or freely licensable by
 each licensor hereunder covering either
(i) the unmodified Software as contributed to or provided by such licensor,
 or (ii) the Larger Works (as defined below),
to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
 one is included with the Software each a
"Larger Work" to which the Software is contributed by such licensors),
 without restriction, including without limitation
the rights to copy, create derivative works of, display, perform, and
 distribute the Software and make, use, sell, offer
for sale, import, export, have made, and have sold the Software and the
 Larger Work(s), and to sublicense the foregoing
rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at
 a minimum a reference to the UPL must be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------------------

License notice for JUnit platform native plugin
------------------------------------------------------------------------------
org.graalvm.buildtools:junit-platform-native - https://github.com/graalvm/
native-build-tools/blob/master/common/junit-platform-native/LICENSE

Copyright (c) 2020, 2021, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
 any
person obtaining a copy of this software, associated documentation and/or
data (collectively the "Software"), free of charge and under any and all
copyright rights in the Software, and any and all patent rights owned or
freely licensable by each licensor hereunder covering either (i) the
unmodified Software as contributed to or provided by such licensor, or (ii)
the Larger Works (as defined below), to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
one is included with the Software each a "Larger Work" to which the Software
is contributed by such licensors),

without restriction, including without limitation the rights to copy, create
derivative works of, display, perform, and distribute the Software and make,
use, sell, offer for sale, import, export, have made, and have sold the
Software and the Larger Work(s), and to sublicense the foregoing rights on
```

```
either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at
 a
minimum a reference to the UPL must be included in all copies or substantial
portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.core:jackson-core

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

Provider: Microsoft Corporation / Component(s): azure-resourcemanager-resources 2.29.0

```
###########################
#### TOP LEVEL LICENSE ####
###########################

com.azure.resourcemanager:azure-resourcemanager-resources

The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



##########################
### 4TH PARTY LICENSES ###
##########################

com.azure:azure-core
com.azure:azure-core-management
com.azure:azure-json

The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-core
com.fasterxml.jackson.core:jackson-databind
io.projectreactor:reactor-core

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



org.reactivestreams:reactive-streams

MIT No Attribution

Copyright 2014 Reactive Streams

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



org.slf4j:slf4j-api

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



#################
#### NOTICES ####
#################
```

```
com.azure.resourcemanager:azure-resourcemanager-resources
com.azure:azure-core
com.azure:azure-core-management
com.azure:azure-json

NOTICES AND INFORMATION
Do Not Translate or Localize

This software incorporates material from third parties. Microsoft makes
 certain
open source code available at https://3rdpartysource.microsoft.com, or you
 may
send a check or money order for US $5.00, including the product name, the
 open
source component name, and version number, to:

Source Code Compliance Team
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
USA

Notwithstanding any other terms, you may reverse engineer this software to
 the
extent required to debug changes to any libraries licensed under the GNU
 Lesser
General Public License.

-------------------------------------------------------------------------------

Azure SDK for Java uses third-party libraries or other resources that may be
distributed under licenses different than the Azure SDK for Java software.

In the event that we accidentally failed to list a required notice, please
bring it to our attention. Post an issue or email us:

           azjavasdkhelp@microsoft.com

The attached notices are provided for information only.

License notice for Hamcrest
-------------------------------------------------------------------------------

The 3-Clause BSD License

Copyright (c) 2000-2015 www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of
conditions and the following disclaimer. Redistributions in binary form must
 reproduce
the above copyright notice, this list of conditions and the following
 disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used
 to endorse
or promote products derived from this software without specific prior
 written
permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
DAMAGE.

License notice for Slf4j API
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Slf4j Simple
-------------------------------------------------------------------------------

 Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
```

```
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for Guava (https://github.com/google/guava)
------------------------------------------------------------------------------

Copyright (C) 2010 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for Netty
------------------------------------------------------------------------------

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

License notice for JUG Java Uuid Generator
------------------------------------------------------------------------------

JUG Java Uuid Generator

Copyright (c) 2002- Tatu Saloranta, tatu.saloranta@iki.fi

Licensed under the License specified in the file LICENSE which is
included with the source code.
You may not use this file except in compliance with the License.

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


License notice for Jackson
------------------------------------------------------------------------------
```

```
Copyright (c) 2007 Jackson Project

Jackson-annotations (http://github.com/FasterXML/jackson
Jackson-core (https://github.com/FasterXML/jackson-core
jackson-databind (http://github.com/FasterXML/jackson
Jackson-dataformat-XML (https://github.com/FasterXML/jackson-dataformat-xml)
Jackson datatype: JSR310 (https://github.com/FasterXML/jackson-modules-
java8/jackson-datatype-jsr310)
Jackson module: Afterburner (https://github.com/FasterXML/jackson-modules-
base)
Jackson module: JAXB Annotations (https://github.com/FasterXML/jackson-
modules-base)
Woodstox (https://github.com/FasterXML/woodstox)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for Metrics Core
-------------------------------------------------------------------------------

Copyright (c) 2010-2013 Coda Hale, Yammer.com, 2014-2020 Dropwizard Team

Metrics Core (https://github.com/dropwizard/metrics)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

License notice for micrometer-core
-------------------------------------------------------------------------------

Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.

micrometer-core (https://github.com/micrometer-metrics/micrometer)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for project Reactor
-------------------------------------------------------------------------------

Copyright (c) 2011-2017 Pivotal Software Inc, All Rights Reserved.

Non-Blocking Reactive Foundation for the JVM (https://github.com/reactor/
reactor-core)
reactor-scala-extensions (https://github.com/reactor/reactor-scala-
extensions)
Reactive Streams Netty driver (https://github.com/reactor/reactor-netty)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.


License notice for JavaBeans Activation Framework API
-------------------------------------------------------------------------------

JavaBeans Activation Framework API jar (https://github.com/eclipse-ee4j/jaf/
jakarta.activation-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
```

```
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

jakarta.xml.bind-api (https://github.com/eclipse-ee4j/jaxb-api/
jakarta.xml.bind-api)

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or other materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to
endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


License notice for jakarta.xml.bind-api
-------------------------------------------------------------------------------

Stax2 API (http://github.com/FasterXML/stax2-api)
Copyright (c) 2008 FasterXML LLC info@fasterxml.com

This source code is licensed under standard BSD license, which is compatible
 with all Free and Open Software (OSS) licenses.
```

```
License notice for HdrHistogrami
--------------------------------------------------------------------------------
HdrHistogram (http://hdrhistogram.github.io/HdrHistogram/)

The code in this repository code was Written by Gil Tene, Michael Barker,
and Matt Warren, and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/

For users of this code who wish to consume it under the "BSD" license
rather than under the public domain or CC0 contribution text mentioned
above, the code found under this directory is *also* provided under the
following license (commonly referred to as the BSD 2-Clause License). This
license does not detract from the above stated release of the code into
the public domain, and simply represents an additional license granted by
the Author.

-----------------------------------------------------------------------------
** Beginning of "BSD 2-Clause License" text. **

 Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
 Copyright (c) 2014 Michael Barker
 Copyright (c) 2014 Matt Warren
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.


License notice for LatencyUtils
--------------------------------------------------------------------------------

LatencyUtils (http://latencyutils.github.io/LatencyUtils/)

  * This code was Written by Gil Tene of Azul Systems, and released to the
  * public domain, as explained at http://creativecommons.org/publicdomain/
zero/1.0/

 For users of this code who wish to consume it under the "BSD" license
 rather than under the public domain or CC0 contribution text mentioned
 above, the code found under this directory is *also* provided under the
 following license (commonly referred to as the BSD 2-Clause License). This
 license does not detract from the above stated release of the code into
```

```
 the public domain, and simply represents an additional license granted by
 the Author.

 ------------------------------------------------------------------------------
 ** Beginning of "BSD 2-Clause License" text. **

  Copyright (c) 2012, 2013, 2014 Gil Tene
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
  THE POSSIBILITY OF SUCH DAMAGE.


License notice for reactive-streams
-------------------------------------------------------------------------------

reactive-streams (http://www.reactive-streams.org/)

Copyright Statement for Contributions to the Reactive Streams Project
======================================================================

I hereby represent that all present, past and future contributions I make to
the Reactive Streams project (which includes all repositories owned by the
“reactive-streams” github organization) are governed by the Creative Commons
Zero 1.0 Universal copyright statement, placing my contributions in the
 public
domain. This entails that to the extent possible under law I waive all
copyright and related or neighboring rights to the code or documents I
contribute. I also represent that I have the authority to perform the above
waiver with respect to the entirety of my contributions.

The text of the copyright statement is included in the COPYING file at the
 root
of the reactive-streams repository at
https://github.com/reactive-streams/reactive-streams-jvm/blob/master/
COPYING.

Underwriting parties:

github name    | Real Name, Email Address used for git commits, Company
```

```
---------------
+-------------------------------------------------------------------------------
rkuhn           | Roland Kuhn, rk@rkuhn.info, Typesafe Inc.
benjchristensen| Ben Christensen, benjchristensen@gmail.com, Netflix Inc.
viktorklang     | Viktor Klang, viktor.klang@gmail.com, Typesafe Inc.
smaldini        | Stephane Maldini, stephane.maldini@gmail.com, Pivotal
 Software Inc.
savulchik       | Stanislav Savulchik, s.savulchik@gmail.com
ktoso           | Konrad Malawski, konrad.malawski@project13.pl, Typesafe
 Inc.
ouertani        | Slim Ouertani, ouertani@gmail.com
2m              | Martynas Mickevičius, mmartynas@gmail.com, Typesafe Inc.
ldaley          | Luke Daley, luke.daley@gradleware.com, Gradleware Inc.
colinrgodsey    | Colin Godsey, crgodsey@gmail.com, MediaMath Inc.
davidmoten      | Dave Moten, davidmoten@gmail.com
briantopping    | Brian Topping, brian.topping@gmail.com, Mauswerks LLC
rstoyanchev     | Rossen Stoyanchev, rstoyanchev@pivotal.io, Pivotal
BjornHamels     | Björn Hamels, bjorn@hamels.nl
JakeWharton     | Jake Wharton, jakewharton@gmail.com
anthonyvdotbe   | Anthony Vanelverdinghe, anthonyv.be@outlook.com
seratch         | Kazuhiro Sera, seratch@gmail.com, SmartNews, Inc.
akarnokd        | David Karnok, akarnokd@gmail.com
egetman         | Evgeniy Getman, getman.eugene@gmail.com
patriknw        | Patrik Nordwall, patrik.nordwall@gmail.com, Lightbend Inc
angelsanz       | Ángel Sanz, angelsanz@users.noreply.github.com
shenghaiyang    | 盛海洋, shenghaiyang@aliyun.com
kiiadi          | Kyle Thomson, kylthoms@amazon.com, Amazon.com
jroper          | James Roper, james@jazzy.id.au, Lightbend Inc.
olegdokuka      | Oleh Dokuka, shadowgun@.i.ua, Netifi Inc.
Scottmitch      | Scott Mitchell, scott_mitchell@apple.com, Apple Inc.
retronym        | Jason Zaugg, jzaugg@gmail.com, Lightbend Inc.

Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with
this code has waived all copyright and related or neighboring
rights to this code.

You should have received a copy of the CC0 legalcode along with this
work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.

License notice for Bouncy Castle
--------------------------------------------------------------------------------

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated
documentation files (the "Software"), to deal in the Software without
 restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and
to permit persons to whom the Software is furnished to do so, subject to the
 following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
```

```
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


License notice for KeePassJava2
-------------------------------------------------------------------------------

Copyright 2015 Jo Rabin

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

License notice for openkeepass
-------------------------------------------------------------------------------

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

Openkeepass License Link: https://github.com/cternes/openkeepass/blob/
master/LICENSE.txt
-----------------------------------------------------------------------------------------

License notice for Apache Commons
-------------------------------------------------------------------------------

Copyright 2002-2019 The Apache Software Foundation

commons-codec (https://github.com/apache/commons-codec)
commons-text (https://github.com/apache/commons-text)
commons-lang (https://github.com/apache/commons-lang)
commons-collections (https://github.com/apache/commons-collections)

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express or implied.
```

```
See the License for the specific language governing permissions and
 limitations under the License.

-----------------------------------------------------------------------------------------

License notice for GraalVM
-----------------------------------------------------------------------------------
org.graalvm.sdk:graal-sdk - https://github.com/graalvm/native-build-tools/
blob/master/common/junit-platform-native/LICENSE
The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
 any person obtaining a copy of this software,
associated documentation and/or data (collectively the "Software"), free of
 charge and under any and all copyright rights
in the Software, and any and all patent rights owned or freely licensable by
 each licensor hereunder covering either
(i) the unmodified Software as contributed to or provided by such licensor,
 or (ii) the Larger Works (as defined below),
to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
 one is included with the Software each a
"Larger Work" to which the Software is contributed by such licensors),
 without restriction, including without limitation
the rights to copy, create derivative works of, display, perform, and
 distribute the Software and make, use, sell, offer
for sale, import, export, have made, and have sold the Software and the
 Larger Work(s), and to sublicense the foregoing
rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at
 a minimum a reference to the UPL must be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------------------

License notice for JUnit platform native plugin
-----------------------------------------------------------------------------------
org.graalvm.buildtools:junit-platform-native - https://github.com/graalvm/
native-build-tools/blob/master/common/junit-platform-native/LICENSE

Copyright (c) 2020, 2021, Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
 any
person obtaining a copy of this software, associated documentation and/or
data (collectively the "Software"), free of charge and under any and all
```

```
copyright rights in the Software, and any and all patent rights owned or
freely licensable by each licensor hereunder covering either (i) the
unmodified Software as contributed to or provided by such licensor, or (ii)
the Larger Works (as defined below), to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if
one is included with the Software each a "Larger Work" to which the Software
is contributed by such licensors),

without restriction, including without limitation the rights to copy, create
derivative works of, display, perform, and distribute the Software and make,
use, sell, offer for sale, import, export, have made, and have sold the
Software and the Larger Work(s), and to sublicense the foregoing rights on
either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at
 a
minimum a reference to the UPL must be included in all copies or substantial
portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.core:jackson-core

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
```

Provider: Microsoft Corporation / Component(s): eslint extension for VS Code 2.2.5

```
Copyright (c) Microsoft Corporation

All rights reserved.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Microsoft Corporation / Component(s): Monaco Editor 0.22.3

```
The MIT License (MIT)

Copyright (c) 2016 - present Microsoft Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software,
 and to
permit persons to whom the Software is furnished to do so, subject to the
 following
conditions:

The above copyright notice and this permission notice shall be included in
 all copies
or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
```

```
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.

THIRD-PARTY SOFTWARE NOTICES AND INFORMATION
Do Not Translate or Localize

This project incorporates components from the projects listed below. The
 original
copyright notices and the licenses
under which Microsoft received such components are set forth below.
 Microsoft reserves
all rights not expressly granted
herein, whether by implication, estoppel or otherwise.



%% nodejs path library (https://github.com/nodejs/node/
tree/43dd49c9782848c25e5b03448c8a0f923f13c158)

=========================================
Copyright Joyent, Inc. and other Node contributors.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the
following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.
=========================================
END OF nodejs path library NOTICES AND INFORMATION




%% promise-polyfill version 8.1.0 (https://github.com/taylorhakes/promise-
polyfill)

=========================================
Copyright (c) 2014 Taylor Hakes
Copyright (c) 2014 Forbes Lindesay

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
=========================================
END OF winjs NOTICES AND INFORMATION




%% string_scorer version 0.1.20 (https://github.com/joshaven/string_score)
=========================================
This software is released under the MIT license:

Copyright (c) Joshaven Potter

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of

the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS

FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
=========================================
END OF string_scorer NOTICES AND INFORMATION




%% chjj-marked NOTICES AND INFORMATION BEGIN HERE
=========================================
The MIT License (MIT)

Copyright (c) 2011-2014, Christopher Jeffrey (https://github.com/chjj/)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==========================================
END OF chjj-marked NOTICES AND INFORMATION




%% insane NOTICES AND INFORMATION BEGIN HERE
==========================================
The MIT License (MIT)

Copyright © 2015 Nicolas Bevacqua

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of

the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS

FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========================================
END OF insane NOTICES AND INFORMATION



%% typescript version 2.7.2 (https://github.com/Microsoft/TypeScript)
==========================================
Copyright (c) Microsoft Corporation. All rights reserved.

Apache License
```

```
Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution
as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner
that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that
control, are controlled by, or are under common control with that entity.
 For the
purposes of this definition, "control" means (i) the power, direct or
 indirect, to
cause the direction or management of such entity, whether by contract or
 otherwise,
or (ii) ownership of fifty percent (50%) or more of the outstanding shares,
 or (iii)
beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions
granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but
not limited to software source code, documentation source, and configuration
 files.


"Object" form shall mean any form resulting from mechanical transformation
 or translation
of a Source form, including but not limited to compiled object code,
 generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is
based on (or derived from) the Work and for which the editorial revisions,
 annotations,
elaborations, or other modifications represent, as a whole, an original work
 of authorship.
For the purposes of this License, Derivative Works shall not include works
 that remain
separable from, or merely link (or bind by name) to the interfaces of, the
 Work and
Derivative Works thereof.
```

```
"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works thereof,
that is intentionally submitted to Licensor for inclusion in the Work by the
 copyright
owner or by an individual or Legal Entity authorized to submit on behalf of
 the copyright
owner. For the purposes of this definition, "submitted" means any form of
 electronic,
verbal, or written communication sent to the Licensor or its
 representatives, including
but not limited to communication on electronic mailing lists, source code
 control
systems, and issue tracking systems that are managed by, or on behalf of,
 the Licensor
for the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf of
whom a Contribution has been received by Licensor and subsequently
 incorporated within
the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License,
each Contributor hereby grants to You a perpetual, worldwide, non-exclusive,
 no-charge,
royalty-free, irrevocable copyright license to reproduce, prepare Derivative
 Works
of, publicly display, publicly perform, sublicense, and distribute the Work
 and such
Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License,
each Contributor hereby grants to You a perpetual, worldwide, non-exclusive,
 no-charge,
royalty-free, irrevocable (except as stated in this section) patent license
 to make,
have made, use, offer to sell, sell, import, and otherwise transfer the
 Work, where
such license applies only to those patent claims licensable by such
 Contributor that
are necessarily infringed by their Contribution(s) alone or by combination
 of their
Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You
institute patent litigation against any entity (including a cross-claim or
 counterclaim
in a lawsuit) alleging that the Work or a Contribution incorporated within
 the Work
constitutes direct or contributory patent infringement, then any patent
 licenses
granted to You under this License for that Work shall terminate as of the
 date such
litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative
```

```
Works thereof in any medium, with or without modifications, and in Source or
 Object
form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this
License; and

You must cause any modified files to carry prominent notices stating that
 You changed
the files; and

You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form of
the Work, excluding those notices that do not pertain to any part of the
 Derivative
Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative
Works that You distribute must include a readable copy of the attribution
 notices
contained within such NOTICE file, excluding those notices that do not
 pertain to
any part of the Derivative Works, in at least one of the following places:
 within
a NOTICE text file distributed as part of the Derivative Works; within the
 Source
form or documentation, if provided along with the Derivative Works; or,
 within a
display generated by the Derivative Works, if and wherever such third-party
 notices
normally appear. The contents of the NOTICE file are for informational
 purposes only
and do not modify the License. You may add Your own attribution notices
 within Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from the
Work, provided that such additional attribution notices cannot be construed
 as modifying
the License. You may add Your own copyright statement to Your modifications
 and may
provide additional or different license terms and conditions for use,
 reproduction,
or distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any
 Contribution
intentionally submitted for inclusion in the Work by You to the Licensor
 shall be
under the terms and conditions of this License, without any additional terms
 or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
 such
Contributions.
```

```
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks,
service marks, or product names of the Licensor, except as required for
 reasonable
and customary use in describing the origin of the Work and reproducing the
 content
of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in
 writing,
Licensor provides the Work (and each Contributor provides its Contributions)
 on an
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
 or implied,
including, without limitation, any warranties or conditions of TITLE, NON-
INFRINGEMENT,
MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely
 responsible
for determining the appropriateness of using or redistributing the Work and
 assume
any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort
(including negligence), contract, or otherwise, unless required by
 applicable law
(such as deliberate and grossly negligent acts) or agreed to in writing,
 shall any
Contributor be liable to You for damages, including any direct, indirect,
 special,
incidental, or consequential damages of any character arising as a result of
 this
License or out of the use or inability to use the Work (including but not
 limited
to damages for loss of goodwill, work stoppage, computer failure or
 malfunction,
or any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work
 or Derivative
Works thereof, You may choose to offer, and charge a fee for, acceptance of
 support,
warranty, indemnity, or other liability obligations and/or rights consistent
 with
this License. However, in accepting such obligations, You may act only on
 Your own
behalf and on Your sole responsibility, not on behalf of any other
 Contributor, and
only if You agree to indemnify, defend, and hold each Contributor harmless
 for any
liability incurred by, or claims asserted against, such Contributor by
 reason of
your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
=========================================
END OF typescript NOTICES AND INFORMATION



%% HTML 5.1 W3C Working Draft version 08 October 2015 (http://www.w3.org/
TR/2015/WD-html51-20151008/)
```

```
==========================================
Copyright © 2015 W3C® (MIT, ERCIM, Keio, Beihang). This software or document
 includes
material copied
from or derived from HTML 5.1 W3C Working Draft (http://www.w3.org/TR/2015/
WD-html51-20151008/.)


THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO
 REPRESENTATIONS
OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT
NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
 PURPOSE,
NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF
THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF
 SUCH CONTENTS
WILL NOT INFRINGE ANY THIRD PARTY
PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR
 CONSEQUENTIAL
DAMAGES ARISING OUT OF ANY USE OF THE
DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising
 or publicity
pertaining to this document or its contents
without specific, written prior permission. Title to copyright in this
 document will
at all times remain with copyright holders.
==========================================
END OF HTML 5.1 W3C Working Draft NOTICES AND INFORMATION




%% JS Beautifier version 1.6.2 (https://github.com/beautify-web/js-beautify)
==========================================
The MIT License (MIT)

Copyright (c) 2007-2017 Einar Lielmanis, Liam Newman, and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software,
 and to
permit persons to whom the Software is furnished to do so, subject to the
 following
conditions:

The above copyright notice and this permission notice shall be included in
 all copies
or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
```

```
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.
========================================
END OF js-beautify NOTICES AND INFORMATION




%% Ionic documentation version 1.2.4 (https://github.com/driftyco/ionic-
site)
========================================
Copyright Drifty Co. http://drifty.com/.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution
as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner
that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that
control, are controlled by, or are under common control with that entity.
 For the
purposes of this definition, "control" means (i) the power, direct or
 indirect, to
cause the direction or management of such entity, whether by contract or
 otherwise,
or (ii) ownership of fifty percent (50%) or more of the outstanding shares,
 or (iii)
beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions
granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but
not limited to software source code, documentation source, and configuration
 files.


"Object" form shall mean any form resulting from mechanical transformation
 or translation
of a Source form, including but not limited to compiled object code,
 generated documentation,
and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is
based on (or derived from) the Work and for which the editorial revisions,
 annotations,
elaborations, or other modifications represent, as a whole, an original work
 of authorship.
For the purposes of this License, Derivative Works shall not include works
 that remain
separable from, or merely link (or bind by name) to the interfaces of, the
 Work and
Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works thereof,
that is intentionally submitted to Licensor for inclusion in the Work by the
 copyright
owner or by an individual or Legal Entity authorized to submit on behalf of
 the copyright
owner. For the purposes of this definition, "submitted" means any form of
 electronic,
verbal, or written communication sent to the Licensor or its
 representatives, including
but not limited to communication on electronic mailing lists, source code
 control
systems, and issue tracking systems that are managed by, or on behalf of,
 the Licensor
for the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf of
whom a Contribution has been received by Licensor and subsequently
 incorporated within
the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License,
each Contributor hereby grants to You a perpetual, worldwide, non-exclusive,
 no-charge,
royalty-free, irrevocable copyright license to reproduce, prepare Derivative
 Works
of, publicly display, publicly perform, sublicense, and distribute the Work
 and such
Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License,
each Contributor hereby grants to You a perpetual, worldwide, non-exclusive,
 no-charge,
royalty-free, irrevocable (except as stated in this section) patent license
 to make,
have made, use, offer to sell, sell, import, and otherwise transfer the
 Work, where
```

```
such license applies only to those patent claims licensable by such
 Contributor that
are necessarily infringed by their Contribution(s) alone or by combination
 of their
Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You
institute patent litigation against any entity (including a cross-claim or
 counterclaim
in a lawsuit) alleging that the Work or a Contribution incorporated within
 the Work
constitutes direct or contributory patent infringement, then any patent
 licenses
granted to You under this License for that Work shall terminate as of the
 date such
litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative
Works thereof in any medium, with or without modifications, and in Source or
 Object
form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this
License; and

You must cause any modified files to carry prominent notices stating that
 You changed
the files; and

You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form of
the Work, excluding those notices that do not pertain to any part of the
 Derivative
Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative
Works that You distribute must include a readable copy of the attribution
 notices
contained within such NOTICE file, excluding those notices that do not
 pertain to
any part of the Derivative Works, in at least one of the following places:
 within
a NOTICE text file distributed as part of the Derivative Works; within the
 Source
form or documentation, if provided along with the Derivative Works; or,
 within a
display generated by the Derivative Works, if and wherever such third-party
 notices
normally appear. The contents of the NOTICE file are for informational
 purposes only
and do not modify the License. You may add Your own attribution notices
 within Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from the
Work, provided that such additional attribution notices cannot be construed
 as modifying
the License. You may add Your own copyright statement to Your modifications
 and may
provide additional or different license terms and conditions for use,
 reproduction,
```

```
or distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any
 Contribution
intentionally submitted for inclusion in the Work by You to the Licensor
 shall be
under the terms and conditions of this License, without any additional terms
 or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
 such
Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks,
service marks, or product names of the Licensor, except as required for
 reasonable
and customary use in describing the origin of the Work and reproducing the
 content
of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in
 writing,
Licensor provides the Work (and each Contributor provides its Contributions)
 on an
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
 or implied,
including, without limitation, any warranties or conditions of TITLE, NON-
INFRINGEMENT,
MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely
 responsible
for determining the appropriateness of using or redistributing the Work and
 assume
any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort
(including negligence), contract, or otherwise, unless required by
 applicable law
(such as deliberate and grossly negligent acts) or agreed to in writing,
 shall any
Contributor be liable to You for damages, including any direct, indirect,
 special,
incidental, or consequential damages of any character arising as a result of
 this
License or out of the use or inability to use the Work (including but not
 limited
to damages for loss of goodwill, work stoppage, computer failure or
 malfunction,
or any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work
 or Derivative
Works thereof, You may choose to offer, and charge a fee for, acceptance of
 support,
warranty, indemnity, or other liability obligations and/or rights consistent
 with
```

```
this License. However, in accepting such obligations, You may act only on
 Your own
behalf and on Your sole responsibility, not on behalf of any other
 Contributor, and
only if You agree to indemnify, defend, and hold each Contributor harmless
 for any
liability incurred by, or claims asserted against, such Contributor by
 reason of
your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
=========================================
END OF Ionic documentation NOTICES AND INFORMATION



%% vscode-swift version 0.0.1 (https://github.com/owensd/vscode-swift)
=========================================
The MIT License (MIT)

Copyright (c) 2015 David Owens II

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.

=========================================
END OF vscode-swift NOTICES AND INFORMATION
```

Provider: Microsoft Corporation / Component(s): Phi-3-small-128k-instruct f80aaa3

```
Microsoft.
Copyright (c) Microsoft Corporation.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

============================== Fourth Party Dependencies
 ==============================

Depends on following technologies/licenses.
A copy of each license is included accordingly.

Jinja2 (BSD License)
MarkupSafe (BSD License)
PyYAML (MIT License)
certifi (Mozilla Public License 2.0 (MPL 2.0))
charset-normalizer (MIT License)
einops (MIT License)
filelock (The Unlicense (Unlicense))
fsspec (BSD License)
huggingface-hub (Apache Software License)
idna (BSD License)
mpmath (BSD License)
networkx (BSD License)
numpy (BSD License)
packaging (Apache Software License; BSD License)
regex (Apache Software License)
requests (Apache Software License)
safetensors (Apache Software License)
sympy (BSD License)
tiktoken (MIT License)
tokenizers (Apache Software License)
torch (BSD License)
tqdm (MIT License; Mozilla Public License 2.0 (MPL 2.0))
transformers (Apache Software License)
triton (MIT License)
typing_extensions (Python Software Foundation License)
urllib3 (MIT License)

================================ Fourth Party Licenses
 ================================

+---4th party: Jinja2 (BSD License)

Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
```

```
3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

+---4th party: MarkupSafe (BSD License)

Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

+---4th party: PyYAML (MIT License)

Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------- Separator --------------

+---4th party: certifi (Mozilla Public License 2.0 (MPL 2.0))

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

-------------- Separator --------------

+---4th party: charset-normalizer (MIT License)

MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------- Separator --------------

+---4th party: einops (MIT License)

MIT License

Copyright (c) 2018 Alex Rogozhnikov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------- Separator --------------

+---4th party: filelock (The Unlicense (Unlicense))

Copyright (c) 2014-2024, tox-dev

This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

-------------- Separator --------------

+---4th party: fsspec (BSD License)

BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

+---4th party: huggingface-hub (Apache Software License)

Copyright 2024-present, the HuggingFace Inc. team.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


                                Apache License
                           Version 2.0, January 2004
```

```
                         http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
```

```
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------

+---4th party: idna (BSD License)

BSD 3-Clause License

Copyright (c) 2013-2024, Kim Davies and contributors. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

+---4th party: mpmath (BSD License)

Copyright (c) 2005-2021 Fredrik Johansson and mpmath contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-------------- Separator --------------

+---4th party: networkx (BSD License)

NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2023, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

+---4th party: numpy (BSD License)

./LICENSE.txt

Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: numpy.libs/libopenblas*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
```

```
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: numpy.libs/libopenblas*.so
Description: bundled in OpenBLAS
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause-Attribution
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
./LICENSES_bundled.txt
```

```
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt


Note that the following files are vendored in the repository and sdist but
 not
installed in built numpy packages:

Name: Meson
Files: vendored-meson/meson/*
License: Apache 2.0
  For license text, see vendored-meson/meson/COPYING

Name: spin
Files: .spin/cmds.py
License: BSD-3
  For license text, see .spin/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------

--------------------------------------------------------------------------------
lapack-lite

Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
tempita

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------------------------------------------------
dragon4


Copyright (c) 2014 Ryan Juckett

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
```

```
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

This file contains a modified version of Ryan Juckett's Dragon4
implementation, obtained from http://www.ryanjuckett.com,
which has been ported from C++ to C and which has
modifications specific to printing floats in numpy.

Ryan Juckett's original code was under the Zlib license; he gave numpy
permission to include it under the MIT license instead.

----------------------------------------------------------------------------
libdivide

  Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.


----------------------------------------------------------------------------
Meson
vendored-meson/meson/COPYING

< Apache License Version 2.0 >

----------------------------------------------------------------------------
spin

BSD 3-Clause License

Copyright (c) 2021--2022, Scientific Python project
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
LICENSES in different directories:
--------------------------------------------------------------------------------

------------------------------------------------------------------------
./numpy/blob/v1.26.4/numpy/random/src/distributions/LICENSE.md

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah,
and other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


------------------------------------------------------------------------
./numpy/blob/v1.26.4/numpy/random/src/mt19937/LICENSE.md
```

```
Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
the Mersenne Twister RNG:

  Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions
  are met:

  1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

  3. The names of its contributors may not be used to endorse or promote
  products derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------
```

```
./numpy/blob/v1.26.4/numpy/random/src/pcg64/LICENSE.md

Name: PCG64

## The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill <oneill@pcg-random.org>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
 "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------
./numpy/blob/v1.26.4/numpy/random/src/philox/LICENSE.md

Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions, and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions, and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of D. E. Shaw Research nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
./numpy/blob/v1.26.4/numpy/random/src/sfc64/LICENSE.md

Name: SFC64

## The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

---------------------------------------------------------------------------
./numpy/blob/v1.26.4/numpy/random/src/splitmix64/LICENSE.md

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
and related and neighboring rights to this software to the public domain
worldwide. This software is distributed without any warranty.

See <http://creativecommons.org/publicdomain/zero/1.0/>.

---------------------------------------------------------------------------
./numpy/blob/v1.26.4/numpy/random/LICENSE.md

Name: Random

**This software is dual-licensed under the The University of Illinois/NCSA
Open Source License (NCSA) and The 3-Clause BSD License**

# NCSA Open Source License
**Copyright (c) 2019 Kevin Sheppard. All rights reserved.**

Developed by: Kevin Sheppard (<kevin.sheppard@economics.ox.ac.uk>,
<kevin.k.sheppard@gmail.com>)
[http://www.kevinsheppard.com](http://www.kevinsheppard.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
```

```
this software and associated documentation files (the "Software"), to deal
 with
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimers in the documentation and/or
other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be
used to endorse or promote products derived from this Software without
 specific
prior written permission.

**THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH
THE SOFTWARE.**


# 3-Clause BSD License
**Copyright (c) 2019 Kevin Sheppard. All rights reserved.**

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

**THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.**
```

```
# Components

Many parts of this module have been derived from original sources,
often the algorithm's designer. Component licenses are located with
the component code.

---------------------------------------------------------------------------
./numpy/blob/v1.26.4/numpy/ma/LICENSE

Name: ma

* Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
* All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are
 met:
*
*     * Redistributions of source code must retain the above copyright
*       notice, this list of conditions and the following disclaimer.
*     * Redistributions in binary form must reproduce the above copyright
*       notice, this list of conditions and the following disclaimer in the
*       documentation and/or other materials provided with the distribution.
*     * Neither the name of the University of Georgia nor the
*       names of its contributors may be used to endorse or promote products
*       derived from this software without specific prior written
 permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 ANY
* EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
 ANY
* DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
* (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

+---4th party: packaging (Apache Software License; BSD License)

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

< Apache License Version 2.0 >

BSD License:
============

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

+---4th party: regex (Apache Software License)

Secret Labs' Regular Expression Engine

Copyright (c) 1998-2001 by Secret Labs AB.  All rights reserved.

This version of the SRE library can be redistributed under CNRI's
Python 1.6 license.  For any other use, please contact Secret Labs
AB (info@pythonware.com).

Portions of this engine have been developed in cooperation with
CNRI.  Hewlett-Packard provided funding for 1.6 integration and
other compatibility work.

2010-01-16 mrab Python front-end re-written and extended

-------------- Separator --------------

This work was derived from the 're' module of CPython 2.6 and CPython 3.1,
copyright (c) 1998-2001 by Secret Labs AB and licensed under CNRI's Python
 1.6
license.

All additions and alterations are licensed under the Apache 2.0 License.

< Apache License Version 2.0 >

-------------- Separator --------------

+---4th party: requests (Apache Software License)

Copyright 2019 Kenneth Reitz. All rights reserved.

< Apache License Version 2.0 >

-------------- Separator --------------

+---4th party: safetensors (Apache Software License)
```

```
< Apache License Version 2.0 >

-------------- Separator --------------

+---4th party: sympy (BSD License)

Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:

Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
```

```
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:

Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------- Separator --------------


+---4th party: tiktoken (MIT License)

MIT License

Copyright (c) 2022 OpenAI, Shantanu Jain

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------- Separator --------------


+---4th party: tokenizers (Apache Software License)

Copyright (c) 2020, huggingface

 ./LICENSE

< Apache License Version 2.0 >

 ./bindings/node/LICENSE

MIT License

Copyright (c) 2020 N-API for Rust

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------- Separator --------------

+---4th party: torch (BSD License)

 ./LICENSE

From PyTorch:

Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
```

```
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
```

```
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

 ./aten/src/ATen/native/quantized/cpu/qnnpack/LICENSE

BSD License

For QNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

 ./aten/src/ATen/native/quantized/cpu/qnnpack/deps/clog/LICENSE

Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

 ./caffe2/mobile/contrib/libopencl-stub/LICENSE

This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org/>


-------------- Separator --------------

 ./third_party/LICENSES_BUNDLED.txt

The Pytorch repository and source distributions bundle several libraries
 that are
compatibly licensed.  We list these here.
```

```
Name: DCGM
License: Apache-2.0
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/DCGM
  For details, see: third_party/kineto/libkineto/third_party/dynolog/
third_party/DCGM/LICENSE

Name: FP16
License: MIT
Files: third_party/FP16
  For details, see: third_party/FP16/LICENSE

Name: FXdiv
License: MIT
Files: third_party/FXdiv
  For details, see: third_party/FXdiv/LICENSE

Name: NNPACK
License: BSD-2-Clause
Files: third_party/NNPACK
  For details, see: third_party/NNPACK/LICENSE

Name: QNNPACK
License: BSD-3-Clause
Files: third_party/QNNPACK
  For details, see: third_party/QNNPACK/LICENSE

Name: VulkanMemoryAllocator
License: MIT
Files: third_party/VulkanMemoryAllocator
  For details, see: third_party/VulkanMemoryAllocator/LICENSE.txt

Name: XNNPACK
License: BSD-3-Clause
Files: third_party/XNNPACK
  For details, see: third_party/XNNPACK/LICENSE

Name: benchmark
License: Apache-2.0
Files: third_party/benchmark,
     third_party/onnx/third_party/benchmark,
     third_party/onnx-tensorrt/third_party/onnx/third_party/benchmark,
     third_party/protobuf/third_party/benchmark
  For details, see: third_party/benchmark/LICENSE,
     third_party/onnx/third_party/benchmark/LICENSE,
     third_party/onnx-tensorrt/third_party/onnx/third_party/benchmark/
LICENSE,
     third_party/protobuf/third_party/benchmark/LICENSE

Name: clog
License: BSD-2-Clause
Files: third_party/QNNPACK/deps/clog,
     third_party/cpuinfo/deps/clog,
     third_party/fbgemm/third_party/cpuinfo/deps/clog
  For details, see: third_party/QNNPACK/deps/clog/LICENSE,
     third_party/cpuinfo/deps/clog/LICENSE,
     third_party/fbgemm/third_party/cpuinfo/deps/clog/LICENSE

Name: colorama
License: BSD-3-Clause
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/DCGM/
testing/python3/libs_3rdparty/colorama
  For details, see: third_party/kineto/libkineto/third_party/dynolog/
third_party/DCGM/testing/python3/libs_3rdparty/colorama/LICENSE.txt
```

```
Name: cpplint
License: BSD-3-Clause
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/json/
third_party/cpplint,
     third_party/nlohmann/tools/cpplint
  For details, see: third_party/kineto/libkineto/third_party/dynolog/
third_party/json/third_party/cpplint/LICENSE,
     third_party/nlohmann/tools/cpplint/LICENSE

Name: cpr
License: MIT
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/cpr
  For details, see: third_party/kineto/libkineto/third_party/dynolog/
third_party/cpr/LICENSE

Name: cpuinfo
License: BSD-2-Clause
Files: third_party/cpuinfo,
     third_party/fbgemm/third_party/cpuinfo
  For details, see: third_party/cpuinfo/LICENSE,
     third_party/fbgemm/third_party/cpuinfo/LICENSE

Name: cudnn_frontend
License: MIT
Files: third_party/cudnn_frontend
  For details, see: third_party/cudnn_frontend/LICENSE.txt

Name: cutlass
License: BSD-3-Clause
Files: third_party/cutlass,
     third_party/fbgemm/third_party/cutlass
  For details, see: third_party/cutlass/LICENSE.txt,
     third_party/fbgemm/third_party/cutlass/LICENSE.txt

Name: dart
License: Apache-2.0
Files: third_party/flatbuffers/dart
  For details, see: third_party/flatbuffers/dart/LICENSE

Name: doctest
License: MIT
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/json/
test/thirdparty/doctest,
     third_party/nlohmann/tests/thirdparty/doctest
  For details, see: third_party/kineto/libkineto/third_party/dynolog/
third_party/json/test/thirdparty/doctest/LICENSE.txt,
     third_party/nlohmann/tests/thirdparty/doctest/LICENSE.txt

Name: dynolog
License: MIT
Files: third_party/kineto/libkineto/third_party/dynolog
  For details, see: third_party/kineto/libkineto/third_party/dynolog/LICENSE

Name: eigen
License: BSD-3-Clause
Files: third_party/eigen
  For details, see: third_party/eigen/COPYING.BSD

Name: enum
License: BSD-3-Clause
Files: third_party/python-enum/enum
  For details, see: third_party/python-enum/enum/LICENSE

Name: fbgemm
```

```
License: BSD-3-Clause
Files: third_party/fbgemm
  For details, see: third_party/fbgemm/LICENSE

Name: flatbuffers
License: Apache-2.0
Files: third_party/flatbuffers
  For details, see: third_party/flatbuffers/LICENSE.txt

Name: fmt
License: MIT with exception
Files: third_party/fmt,
     third_party/kineto/libkineto/third_party/dynolog/third_party/fmt,
     third_party/kineto/libkineto/third_party/fmt
  For details, see: third_party/fmt/LICENSE.rst,
     third_party/kineto/libkineto/third_party/dynolog/third_party/fmt/
LICENSE.rst,
     third_party/kineto/libkineto/third_party/fmt/LICENSE.rst

Name: foxi
License: MIT
Files: third_party/foxi
  For details, see: third_party/foxi/LICENSE

Name: gemmlowp
License: Apache-2.0
Files: third_party/gemmlowp/gemmlowp
  For details, see: third_party/gemmlowp/gemmlowp/LICENSE

Name: generator
License: Apache-2.0
Files: third_party/fbgemm/third_party/googletest/googlemock/scripts/
generator,
     third_party/googletest/googlemock/scripts/generator,
     third_party/kineto/libkineto/third_party/googletest/googlemock/scripts/
generator,
     third_party/protobuf/third_party/googletest/googlemock/scripts/
generator,
     third_party/tensorpipe/third_party/googletest/googlemock/scripts/
generator
  For details, see: third_party/fbgemm/third_party/googletest/googlemock/
scripts/generator/LICENSE,
     third_party/googletest/googlemock/scripts/generator/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/googlemock/scripts/
generator/LICENSE,
     third_party/protobuf/third_party/googletest/googlemock/scripts/
generator/LICENSE,
     third_party/tensorpipe/third_party/googletest/googlemock/scripts/
generator/LICENSE

Name: gloo
License: BSD-3-Clause
Files: third_party/gloo
  For details, see: third_party/gloo/LICENSE

Name: googlemock
License: BSD-3-Clause
Files: third_party/fbgemm/third_party/googletest/googlemock,
     third_party/kineto/libkineto/third_party/googletest/googlemock,
     third_party/protobuf/third_party/googletest/googlemock,
     third_party/tensorpipe/third_party/googletest/googlemock
  For details, see: third_party/fbgemm/third_party/googletest/googlemock/
LICENSE,
     third_party/kineto/libkineto/third_party/googletest/googlemock/LICENSE,
```

```
     third_party/protobuf/third_party/googletest/googlemock/LICENSE,
     third_party/tensorpipe/third_party/googletest/googlemock/LICENSE

Name: googletest
License: BSD-3-Clause
Files: third_party/fbgemm/third_party/googletest,
     third_party/fbgemm/third_party/googletest/googletest,
     third_party/googletest,
     third_party/kineto/libkineto/third_party/dynolog/third_party/
googletest,
     third_party/kineto/libkineto/third_party/googletest,
     third_party/kineto/libkineto/third_party/googletest/googletest,
     third_party/protobuf/third_party/googletest,
     third_party/protobuf/third_party/googletest/googletest,
     third_party/tensorpipe/third_party/googletest,
     third_party/tensorpipe/third_party/googletest/googletest
  For details, see: third_party/fbgemm/third_party/googletest/LICENSE,
     third_party/fbgemm/third_party/googletest/googletest/LICENSE,
     third_party/googletest/LICENSE,
     third_party/kineto/libkineto/third_party/dynolog/third_party/
googletest/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/googletest/LICENSE,
     third_party/protobuf/third_party/googletest/LICENSE,
     third_party/protobuf/third_party/googletest/googletest/LICENSE,
     third_party/tensorpipe/third_party/googletest/LICENSE,
     third_party/tensorpipe/third_party/googletest/googletest/LICENSE

Name: gtest
License: BSD-3-Clause
Files: third_party/ideep/mkl-dnn/tests/gtest,
     third_party/ideep/mkl-dnn/third_party/oneDNN/tests/gtests/gtest
  For details, see: third_party/ideep/mkl-dnn/tests/gtest/LICENSE,
     third_party/ideep/mkl-dnn/third_party/oneDNN/tests/gtests/gtest/LICENSE

Name: hipify_torch
License: MIT
Files: third_party/fbgemm/third_party/hipify_torch
  For details, see: third_party/fbgemm/third_party/hipify_torch/LICENSE.txt

Name: ideep
License: MIT
Files: third_party/ideep
  For details, see: third_party/ideep/LICENSE

Name: ios-cmake
License: BSD-3-Clause
Files: third_party/ios-cmake
  For details, see: third_party/ios-cmake/LICENSE

Name: json
License: MIT
Files: third_party/cudnn_frontend/include/contrib/nlohmann/json
  For details, see: third_party/cudnn_frontend/include/contrib/nlohmann/
json/LICENSE.txt

Name: kineto
License: BSD-3-Clause
Files: third_party/kineto
  For details, see: third_party/kineto/LICENSE

Name: libnop
License: Apache-2.0
Files: third_party/tensorpipe/third_party/libnop
```

```
  For details, see: third_party/tensorpipe/third_party/libnop/LICENSE

Name: libuv
License: MIT
Files: third_party/tensorpipe/third_party/libuv
  For details, see: third_party/tensorpipe/third_party/libuv/LICENSE

Name: miniz-2.1.0
License: MIT
Files: third_party/miniz-2.1.0
  For details, see: third_party/miniz-2.1.0/LICENSE

Name: mkl-dnn
License: Apache-2.0
Files: third_party/ideep/mkl-dnn
  For details, see: third_party/ideep/mkl-dnn/LICENSE

Name: nccl
License: BSD-3-Clause
Files: third_party/nccl/nccl
  For details, see: third_party/nccl/nccl/LICENSE.txt

Name: neon2sse
License: BSD-Source-Code
Files: third_party/neon2sse
  For details, see: third_party/neon2sse/LICENSE

Name: oneDNN
License: Apache-2.0
Files: third_party/ideep/mkl-dnn/third_party/oneDNN
  For details, see: third_party/ideep/mkl-dnn/third_party/oneDNN/LICENSE

Name: onnx
License: Apache-2.0
Files: third_party/onnx
  For details, see: third_party/onnx/LICENSE

Name: onnx
License: MIT
Files: third_party/onnx-tensorrt/third_party/onnx
  For details, see: third_party/onnx-tensorrt/third_party/onnx/LICENSE

Name: onnx-tensorrt
License: MIT
Files: third_party/onnx-tensorrt
  For details, see: third_party/onnx-tensorrt/LICENSE

Name: pfs
License: Apache-2.0
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/pfs
  For details, see: third_party/kineto/libkineto/third_party/dynolog/
third_party/pfs/LICENSE

Name: protobuf
License: BSD-3-Clause
Files: third_party/protobuf
  For details, see: third_party/protobuf/LICENSE

Name: psimd
License: MIT
Files: third_party/psimd
  For details, see: third_party/psimd/LICENSE

Name: pthreadpool
```

```
License: BSD-2-Clause
Files: third_party/pthreadpool
  For details, see: third_party/pthreadpool/LICENSE

Name: pybind11
License: BSD-3-Clause
Files: third_party/onnx/third_party/pybind11,
     third_party/onnx-tensorrt/third_party/onnx/third_party/pybind11,
     third_party/pybind11,
     third_party/tensorpipe/third_party/pybind11
  For details, see: third_party/onnx/third_party/pybind11/LICENSE,
     third_party/onnx-tensorrt/third_party/onnx/third_party/pybind11/
LICENSE,
     third_party/pybind11/LICENSE,
     third_party/tensorpipe/third_party/pybind11/LICENSE

Name: python-peachpy
License: BSD-2-Clause
Files: third_party/python-peachpy
  For details, see: third_party/python-peachpy/LICENSE.rst

Name: python-six
License: MIT
Files: third_party/python-six
  For details, see: third_party/python-six/LICENSE

Name: sleef
License: BSL-1.0
Files: third_party/sleef
  For details, see: third_party/sleef/LICENSE.txt

Name: swift
License: Apache-2.0
Files: third_party/flatbuffers/swift
  For details, see: third_party/flatbuffers/swift/LICENSE

Name: tb_plugin
License: BSD-3-Clause
Files: third_party/kineto/tb_plugin
  For details, see: third_party/kineto/tb_plugin/LICENSE

Name: tbb
License: Apache-2.0
Files: third_party/tbb
  For details, see: third_party/tbb/LICENSE

Name: tensorpipe
License: BSD-3-Clause
Files: third_party/tensorpipe
  For details, see: third_party/tensorpipe/LICENSE.txt

Name: test
License: MIT with exception
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/cpr/test
  For details, see: third_party/kineto/libkineto/third_party/dynolog/
third_party/cpr/test/LICENSE

Name: zstd
License: BSD-3-Clause
Files: third_party/zstd
  For details, see: third_party/zstd/LICENSE

-------------- Separator --------------
```

```
 ./third_party/miniz-2.1.0/LICENSE

Copyright 2013-2014 RAD Game Tools and Valve Software
Copyright 2010-2014 Rich Geldreich and Tenacious Software LLC

All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-------------- Separator --------------

 ./torch/distributed/pipeline/sync/LICENSE

Copyright 2019-2020 Kakao Brain

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from this
   software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

 ./torch/fx/experimental/unification/LICENSE.txt

Copyright (c) 2014 Matthew Rocklin
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Unification nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-------------- Separator --------------

 ./NOTICE

=======================================================================
Software under third_party
=======================================================================
Software libraries under third_party are provided as github submodule
links, and their content is not part of the Caffe2 codebase. Their
licences can be found under the respective software repositories.

=======================================================================
Earlier BSD License
=======================================================================
Early development of Caffe2 in 2015 and early 2016 is licensed under the
BSD license. The license is attached below:

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


========================================================================
Caffe's BSD License
========================================================================
Some parts of the caffe2 code is derived from the original Caffe code, which
 is
created by Yangqing Jia and is now a BSD-licensed open-source project. The
 Caffe
license is as follows:

COPYRIGHT

All contributions by the University of California:
Copyright (c) 2014, The Regents of the University of California (Regents)
All rights reserved.

All other contributions:
Copyright (c) 2014, the respective contributors
All rights reserved.

Caffe uses a shared copyright model: each contributor holds copyright over
their contributions to Caffe. The project versioning records all such
contribution and copyright details. If a contributor wants to further mark
their specific copyright on a particular contribution, they should indicate
their copyright solely in the commit message of the change when it is
committed.

LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

CONTRIBUTION AGREEMENT

By contributing to the BVLC/caffe repository through pull-request, comment,
or otherwise, the contributor releases their content to the
license and copyright terms herein.

=====================================================================
Caffe2's Apache License
=====================================================================

This repo contains Caffe2 code, which was previously licensed under
Apache License Version 2.0:

< Apache License Version 2.0 >

=====================================================================
Cephes's 3-Clause BSD License
=====================================================================

Code derived from implementations in the Cephes Math Library should mention
its derivation and reference the following license:

   3-Clause BSD License for the Cephes Math Library
   Copyright (c) 2018, Steven Moshier
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
 met:

   * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

   * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

   * Neither the name of the nor the
   names of its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
   ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
   DISCLAIMED. IN NO EVENT SHALL Steven Moshier BE LIABLE FOR ANY
```

```
   DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
   (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
   LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
   ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
   SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


========================================================================
SciPy's 3-Clause BSD License
========================================================================

Code derived from implementations in SciPy should mention its derivation
and reference the following license:

   Copyright (c) 2001-2002 Enthought, Inc.  2003-2019, SciPy Developers.
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions
   are met:

   1. Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above
     copyright notice, this list of conditions and the following
     disclaimer in the documentation and/or other materials provided
     with the distribution.

   3. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

========================================================================
Boost's 1.0 Software License
========================================================================

Code derived from implementations in Boost 1.0 should mention its
derivation and reference the following license:

   Boost Software License - Version 1.0 - August 17th, 2003

   Permission is hereby granted, free of charge, to any person or
 organization
   obtaining a copy of the software and accompanying documentation covered
 by
```

```
   this license (the "Software") to use, reproduce, display, distribute,
   execute, and transmit the Software, and to prepare derivative works of
 the
   Software, and to permit third-parties to whom the Software is furnished
 to
   do so, all subject to the following:

   The copyright notices in the Software and this entire statement,
 including
   the above license grant, this restriction and the following disclaimer,
   must be included in all copies of the Software, in whole or in part, and
   all derivative works of the Software, unless such copies or derivative
   works are solely in the form of machine-executable object code generated
 by
   a source language processor.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
   IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
   FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
   SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
   FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR
 OTHERWISE,
   ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
 OTHER
   DEALINGS IN THE SOFTWARE.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

========================================================================
PILLOW-SIMD Software License
========================================================================

Code derived from implementations in PILLOW-SIMD should mention its
 derivation
and reference the following license:

    The Python Imaging Library (PIL) is
```

```
        Copyright © 1997-2011 by Secret Labs AB
        Copyright © 1995-2011 by Fredrik Lundh

    Pillow is the friendly PIL fork. It is

        Copyright © 2010-2022 by Alex Clark and contributors

    Like PIL, Pillow is licensed under the open source HPND License:

    By obtaining, using, and/or copying this software and/or its associated
    documentation, you agree that you have read, understood, and will comply
    with the following terms and conditions:

    Permission to use, copy, modify, and distribute this software and its
    associated documentation for any purpose and without fee is hereby
 granted,
    provided that the above copyright notice appears in all copies, and that
    both that copyright notice and this permission notice appear in
 supporting
    documentation, and that the name of Secret Labs AB or the author not be
    used in advertising or publicity pertaining to distribution of the
 software
    without specific, written prior permission.

    SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO
 THIS
    SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS.
    IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR ANY
 SPECIAL,
    INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
 FROM
    LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
 NEGLIGENCE
    OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE
 OR
    PERFORMANCE OF THIS SOFTWARE.

-------------- Separator --------------

+---4th party: tqdm (MIT License; Mozilla Public License 2.0 (MPL 2.0))

`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------
```

```
This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------------- Separator --------------

+---4th party: transformers (Apache Software License)

Copyright 2020 The HuggingFace Team. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

< Apache License Version 2.0 >

-------------- Separator --------------

+---4th party: triton (MIT License)

/*
* Copyright 2018-2020 Philippe Tillet
* Copyright 2020-2022 OpenAI
*
```

```
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files
* (the "Software"), to deal in the Software without restriction,
* including without limitation the rights to use, copy, modify, merge,
* publish, distribute, sublicense, and/or sell copies of the Software,
* and to permit persons to whom the Software is furnished to do so,
* subject to the following conditions:
*
* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
* IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/

-------------- Separator --------------

+---4th party: typing_extensions (Python Software Foundation License)

Copyright (c) 2023, Guido van Rossum and others


A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
```

```
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.
```

```
4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
```

```
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
```

```
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
-------------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

-------------- Separator --------------

+---4th party: urllib3 (MIT License)

MIT License
```

```
Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-------------- Separator --------------

============================== ==============================
```

Provider: Microsoft Corporation / Component(s): Python for VS Code 2022.8.0

```
Copyright (c) Microsoft Corporation. All rights reserved.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------separator------------------------------------------------------------
4th party dependencies - Notices and Licenses
---------separator------------------------------------------------------------

json-schema (AFL-2.1 OR BSD-3-Clause OR (AFL-2.1 AND BSD-3-Clause))
```

```
Copyright (c) 2003-2004 Lawrence E. Rosen
Copyright (c) 2005-2015, The Dojo Foundation

Dojo is available under *either* the terms of the BSD 3-Clause "New" License
 *or* the
Academic Free License version 2.1. As a recipient of Dojo, you may choose
 which
license to receive this code under (except as noted in per-module LICENSE
files). Some modules may not be the copyright of the Dojo Foundation. These
modules contain explicit declarations of copyright in both the LICENSE files
 in
the directories in which they reside and in the code itself. No external
contributions are allowed under licenses which are fundamentally
 incompatible
with the AFL-2.1 OR and BSD-3-Clause licenses that Dojo is distributed
 under.

Oracle elects the BSD-3-Clause License.

The text of the AFL-2.1 and BSD-3-Clause licenses is reproduced below.

---------separator-----------------------------------------------------------
BSD 3-Clause "New" License:
***********************

Copyright (c) 2005-2015, The Dojo Foundation
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
 this
    list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
  * Neither the name of the Dojo Foundation nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------separator-----------------------------------------------------------
The Academic Free License, v. 2.1:
**********************************
```

```
This Academic Free License (the "License") applies to any original work of
authorship (the "Original Work") whose owner (the "Licensor") has placed the
following notice immediately following the copyright notice for the Original
Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide,
royalty-free, non-exclusive, perpetual, sublicenseable license to do the
following:

a) to reproduce the Original Work in copies;

b) to prepare derivative works ("Derivative Works") based upon the Original
Work;

c) to distribute copies of the Original Work and Derivative Works to the
public;

d) to perform the Original Work publicly; and

e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide,
royalty-free, non-exclusive, perpetual, sublicenseable license, under patent
claims owned or controlled by the Licensor that are embodied in the Original
Work as furnished by the Licensor, to make, use, sell and offer for sale the
Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred
form of the Original Work for making modifications to it and all available
documentation describing how to modify the Original Work. Licensor hereby
agrees to provide a machine-readable copy of the Source Code of the Original
Work along with each copy of the Original Work that Licensor distributes.
Licensor reserves the right to satisfy this obligation by placing a
machine-readable copy of the Source Code in an information repository
reasonably calculated to permit inexpensive and convenient access by You for
 as
long as Licensor continues to distribute the Original Work, and by
 publishing
the address of that information repository in a notice immediately following
the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the
 names
of any contributors to the Original Work, nor any of their trademarks or
service marks, may be used to endorse or promote products derived from this
Original Work without express prior written permission of the Licensor.
 Nothing
in this License shall be deemed to grant any rights to trademarks,
 copyrights,
patents, trade secrets or any other intellectual property of Licensor except
 as
expressly stated herein. No patent license is granted to make, use, sell or
offer to sell embodiments of any patent claims other than the licensed
 claims
defined in Section 2. No right is granted to the trademarks of Licensor even
 if
such marks are included in the Original Work. Nothing in this License shall
 be
interpreted to prohibit Licensor from licensing under different terms from
 this
License any Original Work that Licensor otherwise would have a right to
```

```
license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative
Works that You create, all copyright, patent or trademark notices from the
Source Code of the Original Work, as well as any notices of licensing and
 any
descriptive text identified therein as an "Attribution Notice." You must
 cause
the Source Code for any Derivative Works that You create to carry a
 prominent
Attribution Notice reasonably calculated to inform recipients that You have
modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that
the copyright in and to the Original Work and the patent rights granted
 herein
by Licensor are owned by the Licensor or are sublicensed to You under the
 terms
of this License with the permission of the contributor(s) of those
 copyrights
and patent rights. Except as expressly stated in the immediately proceeding
sentence, the Original Work is provided under this License on an "AS IS"
 BASIS
and WITHOUT WARRANTY, either express or implied, including, without
 limitation,
the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A
 PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU.
This DISCLAIMER OF WARRANTY constitutes an essential part of this License.
 No
license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal
 theory,
whether in tort (including negligence), contract, or otherwise, shall the
Licensor be liable to any person for any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License
or the use of the Original Work including, without limitation, damages for
 loss
of goodwill, work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses. This limitation of liability shall not
apply to liability for death or personal injury resulting from Licensor's
negligence to the extent applicable law prohibits such limitation. Some
jurisdictions do not allow the exclusion or limitation of incidental or
consequential damages, so this exclusion and limitation may not apply to
 You.

9) Acceptance and Termination. If You distribute copies of the Original Work
 or
a Derivative Work, You must make a reasonable effort under the circumstances
 to
obtain the express assent of recipients to the terms of this License.
 Nothing
else but this License (or another written agreement between Licensor and
 You)
grants You permission to create Derivative Works based upon the Original
 Work
or to exercise any of the rights granted in Section 1 herein, and any
 attempt
```

```
to do so except under the terms of this License (or another written
 agreement
between Licensor and You) is expressly prohibited by U.S. copyright law, the
equivalent laws of other countries, and by international treaty. Therefore,
 by
exercising any of the rights granted to You in Section 1 herein, You
 indicate
Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate
 automatically
and You may no longer exercise any of the rights granted to You by this
 License
as of the date You commence an action, including a cross-claim or
 counterclaim,
against Licensor or any licensee alleging that the Original Work infringes a
patent. This termination provision shall not apply for an action alleging
patent infringement by combinations of the Original Work with other software
 or
hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to
 this
License may be brought only in the courts of a jurisdiction wherein the
Licensor resides or in which Licensor conducts its primary business, and
 under
the laws of that jurisdiction excluding its conflict-of-law provisions. The
application of the United Nations Convention on Contracts for the
 International
Sale of Goods is expressly excluded. Any use of the Original Work outside
 the
scope of this License or after its termination shall be subject to the
requirements and penalties of the U.S. Copyright Act, 17 U.S.C. Â§ 101 et
seq., the equivalent laws of other countries, and international treaty. This
section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or
seeking damages relating thereto, the prevailing party shall be entitled to
recover its costs and expenses, including, without limitation, reasonable
attorneys' fees and costs incurred in connection with such action, including
any appeal of such action. This section shall survive the termination of
 this
License.

13) Miscellaneous. This License represents the complete agreement concerning
the subject matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent necessary
 to
make it enforceable.

14) Definition of "You" in This License. "You" throughout this License,
 whether
in upper or lower case, means an individual or a legal entity exercising
 rights
under, and complying with all of the terms of, this License. For legal
entities, "You" includes any entity that controls, is controlled by, or is
under common control with you. For purposes of this definition, "control"
 means
(i) the power, direct or indirect, to cause the direction or management of
 such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.
```

```
15) Right to Use. You may use the Original Work in all ways not otherwise
restricted or conditioned by this License or by law, and Licensor promises
 not
to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights
 reserved.
Permission is hereby granted to copy and distribute this license without
modification. This license may not be modified without the express written
permission of its copyright owner.

---------separator---------
tslib (0BSD)
Copyright (c) Microsoft Corporation.
---------separator---------
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

---------separator----------------------------------
aws-sign2 (Apache-2.0)
Copyright 2010 LearnBoost

---------separator----------------------------------
caseless (Apache-2.0)
Copyright Mikeal Rogers

---------separator----------------------------------
diff-match-patch (Apache-2.0)
# Below is a list of people and organizations that have contributed
# to the Diff Match Patch project.

Google Inc.

Duncan Cross  (Lua port)
Jan Weiß  (Objective C port)
Matthaeus G. Chajdas  (C# port)
Mike Slemmer  (C++ port)

---------separator----------------------------------
forever-agent (Apache-2.0)
Copyright (c) Mikeal Rogers  (http://www.futurealoof.com)

---------separator----------------------------------
oauth-sign (Apache-2.0)
Copyright (c) Mikeal Rogers  (http://www.futurealoof.com)

---------separator----------------------------------

reflect-metadata (Apache-2.0)

Copyright (c) Microsoft.
Copyright (c) 2016 Brian Terlson
Copyright (c) 2015 Nicolas Bevacqua
```

```
Copyright (c) Microsoft Corporation.

---------separator---------------------------------

request (Apache-2.0)
Copyright 2010-2012 Mikeal Rogers

---------separator---------------------------------

rxjs (Apache-2.0)
Copyright Google Inc.
Copyright (c) Microsoft Corporation.
Copyright (c) 2015-2018 Google, Inc., Netflix, Inc., Microsoft Corp. and
 contributors
---------separator---------------------------------

rxjs-compat (Apache-2.0)

Copyright (c) Microsoft Corporation
Copyright (c) 2015-2018 Google, Inc., Netflix, Inc., Microsoft Corp. and
 contributors

---------separator---------------------------------

tunnel-agent (Apache-2.0)
Copyright (c) Mikeal Rogers  (http://www.futurealoof.com)

---------separator---------------------------------
aws-sign2
caseless
diff-match-patch
forever-agent
oauth-sign
reflect-metadata
request
rxjs
rxjs-compat
tunnel-agent

                             Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

 TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

 1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common
    control with that entity. For the purposes of this definition,
    "control" means (i) the power, direct or indirect, to cause the
    direction or management of such entity, whether by contract or
    otherwise, or (ii) ownership of fifty percent (50%) or more of the
    outstanding shares, or (iii) beneficial ownership of such entity.

    "You" (or "Your") shall mean an individual or Legal Entity
    exercising permissions granted by this License.
```

```
    "Source" form shall mean the preferred form for making modifications,
    including but not limited to software source code, documentation
    source, and configuration files.

    "Object" form shall mean any form resulting from mechanical
    transformation or translation of a Source form, including but
    not limited to compiled object code, generated documentation,
    and conversions to other media types.

    "Work" shall mean the work of authorship, whether in Source or
    Object form, made available under the License, as indicated by a
    copyright notice that is included in or attached to the work
    (an example is provided in the Appendix below).

    "Derivative Works" shall mean any work, whether in Source or Object
    form, that is based on (or derived from) the Work and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship. For the purposes
    of this License, Derivative Works shall not include works that remain
    separable from, or merely link (or bind by name) to the interfaces of,
    the Work and Derivative Works thereof.

    "Contribution" shall mean any work of authorship, including
    the original version of the Work and any modifications or additions
    to that Work or Derivative Works thereof, that is intentionally
    submitted to Licensor for inclusion in the Work by the copyright owner
    or by an individual or Legal Entity authorized to submit on behalf of
    the copyright owner. For the purposes of this definition, "submitted"
    means any form of electronic, verbal, or written communication sent
    to the Licensor or its representatives, including but not limited to
    communication on electronic mailing lists, source code control systems,
    and issue tracking systems that are managed by, or on behalf of, the
    Licensor for the purpose of discussing and improving the Work, but
    excluding communication that is conspicuously marked or otherwise
    designated in writing by the copyright owner as "Not a Contribution."

    "Contributor" shall mean Licensor and any individual or Legal Entity
    on behalf of whom a Contribution has been received by Licensor and
    subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
```

```
    Work or Derivative Works thereof in any medium, with or without
    modifications, and in Source or Object form, provided that You
    meet the following conditions:

    (a) You must give any other recipients of the Work or
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
```

```
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.

 9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.

 END OF TERMS AND CONDITIONS

 APPENDIX: How to apply the Apache License to your work.

    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
    identification within third-party archives.

 Copyright (c) 2015-2018 Google, Inc., Netflix, Inc., Microsoft Corp. and
 contributors

 Licensed under the Apache License, Version 2.0 (the "License");
 you may not use this file except in compliance with the License.
 You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.


---------separator---------------------------------

uri-js (BSD-2-Clause)

Copyright 2011 Gary Court.
Copyright (c) 2008 Ariel Flesler
Copyright (c) 2009 John Resig, Jorn Zaefferer

Copyright (c)   . All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:
```

```
   1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above copyright
 notice, this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL
THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY OUT OF
THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------separator---------------------------------

winreg (BSD-2-Clause)

Copyright (c) 2016, Paul Bottin

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

   1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above copyright
 notice, this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL
THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT,
```

```
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY OUT OF
THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------separator---------------------------------

bcrypt-pbkdf (BSD-3-Clause)

Copyright 2016, Joyent Inc
Copyright (c) 2013 Ted Unangst
Copyright 1997 Niels Provos

The Blowfish portions are under the following license:

Blowfish block cipher for OpenBSD
Copyright 1997 Niels Provos
All rights reserved.

Implementation advice by David Mazieres .

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



The bcrypt_pbkdf portions are under the following license:

Copyright (c) 2013 Ted Unangst

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



Performance improvements (Javascript-specific):
```

```
Copyright 2016, Joyent Inc
Author: Alex Wilson

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

---------separator---------------------------------

charenc (BSD-3-Clause

Copyright (c) 2009, Jeff Mott.
Copyright (c) 2011, Paul Vorbach.

---------separator---------------------------------

crypt (BSD-3-Clause)

Copyright (c) 2009, Jeff Mott.
Copyright (c) 2011, Paul Vorbach.

---------separator---------------------------------

md5 (BSD-3-Clause)

Copyright (c) 2009, Jeff Mott.
Copyright (c) 2011-2012, Paul Vorbach.
Copyright (c) 2011-2015, Paul Vorbach.

---------separator---------------------------------

qs (BSD-3-Clause)
Copyright (c) 2014 Nathan LaFreniere and other contributors.

---------separator---------------------------------

tough-cookie (BSD-3-Clause)
Copyright (c) 2018, Salesforce.com, Inc.

---------separator---------------------------------
charenc
crypt
md5
qs
tough-cookie

BSD-3-Clause

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
```

```
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.
* Neither the name Crypto-JS nor the names of its contributors may be used
 to
  endorse or promote products derived from this software without specific
 prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------separator---------------------------------

sha.js (BSD-3-Clause AND MIT)

Copyright (c) 2013-2018 sha.js contributors
Copyright (c) 1998 - 2009, Paul Johnston & Contributors
Copyright Paul Johnston 2000 - 2002. Other contributors Greg Holt, Andrew
 Kepert,
Ydnar, Lostinet
Copyright Angel Marin, Paul Johnston 2000 - 2009. Other contributors Greg
 Holt, Andrew
Kepert, Ydnar, Lostinet

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
Copyright (c) 1998 - 2009, Paul Johnston & Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
other materials provided with the distribution.

Neither the name of the author nor the names of its contributors may be used
 to
endorse or promote products derived from this software without specific
 prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------separator----------------------------------

fs.realpath (ISC)

Copyright (c) Isaac Z. Schlueter and Contributors
Copyright Joyent, Inc. and other Node contributors

This library bundles a version of the `fs.realpath` and `fs.realpathSync`
methods from Node.js v0.10 under the terms of the Node.js MIT license.

Node's license follows, also included at the header of `old.js` which
 contains
the licensed code:

  Copyright Joyent, Inc. and other Node contributors.

  Permission is hereby granted, free of charge, to any person obtaining a
  copy of this software and associated documentation files (the "Software"),
  to deal in the Software without restriction, including without limitation
  the rights to use, copy, modify, merge, publish, distribute, sublicense,
  and/or sell copies of the Software, and to permit persons to whom the
  Software is furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.
```

```
  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
  DEALINGS IN THE SOFTWARE.


---------separator---------------------------------

glob (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors

---------separator---------------------------------

graceful-fs (ISC)
Copyright (c) Isaac Z. Schlueter, Ben Noordhuis, and Contributors


---------separator---------------------------------

har-schema (ISC)

Copyright (c) 2015, Ahmad Nassri
copyright ahmadnassri.com (https://www.ahmadnassri.com/)


---------separator---------------------------------

inflight (ISC)
Copyright (c) Isaac Z. Schlueter

---------separator---------------------------------

inherits (ISC)
Copyright (c) Isaac Z. Schlueter

---------separator---------------------------------

json-stringify-safe (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors

---------separator---------------------------------

lru-cache (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors

---------separator---------------------------------

minimalistic-assert (ISC)
Copyright 2015 Calvin Metcalf

---------separator---------------------------------

minimatch (ISC)
Copyright (c) 2011-2022 Isaac Z. Schlueter and Contributors

---------separator---------------------------------

once (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
```

```
---------separator----------------------------------

sax (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
Copyright Mathias Bynens

`String.fromCodePoint` by Mathias Bynens used according to terms of MIT
License, as follows:

    Copyright Mathias Bynens

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, sublicense, and/or sell copies of the Software, and to
    permit persons to whom the Software is furnished to do so, subject to
    the following conditions:

    The above copyright notice and this permission notice shall be
    included in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
    EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
    LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
    OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
    WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---------separator----------------------------------

semver (ISC)

Copyright Isaac Z. Schlueter
Copyright (c) Isaac Z. Schlueter and Contributors

---------separator----------------------------------

wrappy (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors

---------separator----------------------------------

yallist (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors

---------separator----------------------------------

graceful-fs
glob
har-schema
inflight
inherits
json-stringify-safe
lru-cache
minimalistic-assert
once
sax
minimatch
semver
wrappy
yallist
```

```
The ISC License

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


---------separator---------------------------------


@vscode/jupyter-lsp-middleware (MIT)

Copyright (c) Microsoft Corporation
Copyright (c) TypeFox, Microsoft and others

---------separator---------------------------------

@vscode/lsp-notebook-concat (MIT)


Copyright (c) Microsoft Corporation
Copyright (c) TypeFox, Microsoft and others
Copyright Joyent, Inc. and other Node contributors

---------separator---------------------------------

ajv (MIT)

(c) 2011 Gary Court.
Copyright 2011 Gary Court.
Copyright (c) 2015-2017 Evgeny Poberezkin

---------separator---------------------------------
asn1 (MIT)
Copyright (c) 2011 Mark Cavage, All rights reserved.

---------separator---------------------------------

arch (MIT)
Copyright (c) Feross Aboukhadijeh
Copyright (c) Feross Aboukhadijeh (http://feross.org).

---------separator---------------------------------

assert-plus (MIT)
Copyright 2015 Joyent, Inc.
Copyright (c) 2012 Mark Cavage
Copyright (c) 2012, Mark Cavage

---------separator---------------------------------

asynckit (MIT)
Copyright (c) 2016 Alex Indigo

---------separator---------------------------------
```

```
brace-expansion (MIT)
Copyright (c) 2013 Julian Gruber

---------separator---------------------------------
combined-stream (MIT)
Copyright (c) 2011 Debuggable Limited


---------separator---------------------------------
ecc-jsbn (MIT)

Copyright (c) 2003-2005 Tom Wu
Copyright (c) 2014 Jeremie Miller

---------separator---------------------------------

extend (MIT)
Copyright (c) 2014 Stefan Thomas

---------separator---------------------------------

fast-deep-equal (MIT)
Copyright (c) 2017 Evgeny Poberezkin

---------separator---------------------------------

fast-myers-diff (MIT)
Copyright (c) Logan R. Kearsley

---------separator---------------------------------

fs-extra (MIT)

Copyright (c) 2011-2017 JP Richardson (https://github.com/jprichardson)
Copyright (c) Sindre Sorhus  (sindresorhus.com)
Copyright (c) 2014-2016 Jonathan Ong me@jongleberry.com and Contributors

---------separator---------------------------------

har-validator (MIT)
Copyright (c) 2018 Ahmad Nassri

---------separator---------------------------------

hash.js (MIT)
Copyright Fedor Indutny, 2014

---------separator---------------------------------

inversify (MIT)

Copyright (c) 2015-2017 Remo H. Jansen
Copyright (c) 2015-2017 Remo H. Jansen (http://www.remojansen.com)

---------separator---------------------------------

is-buffer (MIT)

Copyright (c) Feross Aboukhadijeh
Copyright (c) Feross Aboukhadijeh (http://feross.org)

---------separator---------------------------------
```

```
isstream (MIT)

Copyright (c) 2015 Rod Vagg
Copyright (c) 2015 Rod Vagg rvagg (https://twitter.com/rvagg)

---------separator---------------------------------

jsbn (MIT)

Copyright (c) 2005 Tom Wu
Copyright (c) 2003-2005 Tom Wu
Copyright (c) 2005-2009 Tom Wu

Address all questions regarding this license to:

  Tom Wu
  tjw@cs.Stanford.EDU

---------separator---------------------------------

jsonc-parser (MIT)

Copyright (c) Microsoft
Copyright 2018, Microsoft
Copyright (c) Microsoft Corporation

---------separator---------------------------------

jsonfile (MIT)

Copyright 2012-2016, JP Richardson
Copyright (c) 2012-2015, JP Richardson

---------separator---------------------------------

json-schema-traverse (MIT)

Copyright (c) 2017 Evgeny Poberezkin

---------separator---------------------------------

mime-db 1.52.0(MIT)

Copyright (c) 2014 Jonathan Ong
Copyright (c) 2015-2022 Douglas Christopher Wilson
Copyright (c) 2014 Jonathan Ong
Copyright (c) 2015-2022 Douglas Christopher Wilson

---------separator---------------------------------

mime-types (MIT)

Copyright (c) 2014 Jonathan Ong
Copyright (c) 2015 Douglas Christopher Wilson
Copyright (c) 2014 Jonathan Ong
Copyright (c) 2015 Douglas Christopher Wilson

---------separator---------------------------------

named-js-regexp (MIT)

Copyright (c) 2015

---------separator---------------------------------
```

```
object-hash (MIT)

Copyright (c) 2014 object-hash contributors

---------separator---------------------------------

os-tmpdir (MIT)

(c) Sindre Sorhus (https://sindresorhus.com)
Copyright (c) Sindre Sorhus  (sindresorhus.com)

---------separator---------------------------------

path-is-absolute (MIT)

(c) Sindre Sorhus (https://sindresorhus.com)
Copyright (c) Sindre Sorhus  (sindresorhus.com)


---------separator---------------------------------

performance-now (MIT)

Copyright (c) 2013 Braveg1rl
Copyright (c) 2017 Braveg1rl

---------separator---------------------------------

psl (MIT)

Copyright (c) 2017 Lupo Montero


---------separator---------------------------------

punycode (MIT)

Copyright Mathias Bynens

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------separator---------------------------------

request-progress (MIT)

Copyright (c) 2012 IndigoUnited
```

```
---------separator---------------------------------

safe-buffer (MIT)
Copyright (c) Feross Aboukhadijeh (http://feross.org)
---------separator---------------------------------

safer-buffer (MIT)
Copyright (c) 2018 Nikita Skovoroda

---------separator---------------------------------

sshpk (MIT)
Copyright Joyent, Inc.
Copyright 2015 Joyent, Inc.
Copyright 2016 Joyent, Inc.
Copyright 2017 Joyent, Inc.
Copyright 2018 Joyent, Inc.

Copyright Joyent, Inc. All rights reserved.

---------separator---------------------------------
sudo-prompt (MIT)
Copyright (c) 2015 Joran Dirk Greef

---------separator---------------------------------

throttleit (MIT)

---------separator---------------------------------

tmp (MIT)
Copyright (c) 2014 KARASZI Istvan
Copyright (c) 2011-2017 KARASZI Istvan

---------separator---------------------------------

uint64be (MIT)
Copyright (c) 2015 Mathias Buus

---------separator---------------------------------

unicode (MIT)
Copyright (c) 2014 # ## #(dodo)

---------separator---------------------------------

universalify (MIT)
Copyright (c) 2017, Ryan Zimmerman


---------separator---------------------------------

untildify (MIT)
(c) Sindre Sorhus (https://sindresorhus.com)
Copyright (c) Sindre Sorhus  (sindresorhus.com)

---------separator---------------------------------

uuid (MIT)

Copyright 2011, Sebastian Tschan https://blueimp.net
Copyright (c) 2010-2020 Robert Kieffer and other contributors
```

```
Copyright (c) Paul Johnston 1999 - 2009 Other contributors Greg Holt, Andrew
 Kepert,
Ydnar, Lostinet

---------separator---------------------------------

verror 1.10.0(MIT)

Copyright (c) 2016, Joyent, Inc. All rights reserved.

---------separator---------------------------------

vscode-debugadapter (MIT)

Copyright (c) Microsoft Corporation.
All rights reserved.

---------separator---------------------------------

vscode-debugprotocol (MIT)
Copyright (c) Microsoft Corporation.
All rights reserved.

---------separator---------------------------------

vscode-extension-telemetry (MIT)
Copyright (c) Microsoft Corporation.
Copyright (c) Microsoft and contributors.

---------separator---------------------------------

vscode-jsonrpc (MIT)
Copyright (c) Microsoft Corporation
All rights reserved.

---------separator---------------------------------

vscode-languageclient (MIT)
Copyright (c) TypeFox and others
Copyright (c) Microsoft Corporation
Copyright (c) Isaac Z. Schlueter and Contributors
Copyright (c) 2013 Julian Gruber

Copyright (c) Microsoft Corporation
All rights reserved.

---------separator---------------------------------

vscode-languageserver (MIT)

Copyright (c) TypeFox and others
Copyright (c) Microsoft Corporation
All rights reserved.

---------separator---------------------------------

vscode-languageserver-protocol (MIT)

Copyright (c) Microsoft Corporation
Copyright (c) TypeFox, Microsoft and others
All rights reserved.

---------separator---------------------------------
```

```
vscode-languageserver-types (MIT)

Copyright (c) Microsoft Corporation
All rights reserved.

---------separator---------------------------------

vscode-nls (MIT)

Copyright (c) Microsoft Corporation

---------separator---------------------------------

vscode-uri (MIT)

Copyright (c) Microsoft
Copyright (c) Microsoft Corporation.
Copyright Joyent, Inc. and other Node contributors.

---------separator---------------------------------

xml2js (MIT)

Copyright 2010, 2011, 2012, 2013. All rights reserved.

---------separator---------------------------------

xmlbuilder (MIT)
Copyright (c) 2013 Ozgur Ozcitak

---------separator---------------------------------
dashdash (MIT)
Copyright (c) 2013 Trent Mick. All rights reserved.
Copyright (c) 2013 Joyent Inc. All rights reserved.

---------separator---------------------------------
extsprintf (MIT)
Copyright Joyent, Inc. All rights reserved.

---------separator---------------------------------
getpass (MIT)
Copyright Joyent, Inc. All rights reserved.

---------separator---------------------------------
http-signature (MIT)
Copyright Joyent, Inc. All rights reserved.

---------separator---------------------------------
iconv-lite (MIT)
Copyright (c) 2011 Alexander Shtuchkin

---------separator---------------------------------

fast-json-stable-stringify (MIT)

Copyright (c) 2017 Evgeny Poberezkin
Copyright (c) 2013 James Halliday

---------separator---------------------------------
follow-redirects (MIT)
Copyright 2014-present Olivier Lalonde , James Talmage , Ruben Verborgh


---------separator---------------------------------
```

```
delayed-stream (MIT)
Copyright (c) 2011 Debuggable Limited

---------separator---------------------------------
is-typedarray (MIT)
Copyright (c) Hugh Kennedy  (http://hughsk.io/)

---------separator---------------------------------
jsprim (MIT)
Copyright Joyent, Inc. All rights reserved.

---------separator---------------------------------
axios (MIT)
Copyright (c) 2014-present Matt Zabriskie

---------separator---------------------------------
form-data (MIT)
Copyright (c) 2012 Felix Geisendörfer (felix@debuggable.com) and
 contributors

---------separator---------------------------------
aws4(MIT)
Copyright 2013 Michael Hart (michael.hart.au@gmail.com)

---------separator---------------------------------
@microsoft/1ds-core-js (MIT)
Copyright (c) Microsoft Corporation.

---------separator---------------------------------
@microsoft/1ds-post-js (MIT)
Copyright (c) Microsoft Corporation.

---------separator---------------------------------
@microsoft/applicationinsights-core-js (MIT)
Copyright (c) Microsoft Corporation.

---------separator---------------------------------
@microsoft/applicationinsights-shims (MIT)
Copyright (c) Microsoft Corporation.

---------separator---------------------------------
@microsoft/dynamicproto-js (MIT)
Copyright (c) Microsoft Corporation.

---------separator---------------------------------
@vscode/extension-telemetry (MIT)
Copyright (c) Microsoft Corporation.

---------separator---------------------------------
@microsoft/1ds-core-js
@microsoft/1ds-post-js
@microsoft/applicationinsights-core-js
@microsoft/applicationinsights-shims
@microsoft/dynamicproto-js
@vscode/extension-telemetry
asn1
ajv
axios
arch
assert-plus
asynckit
aws4
brace-expansion
brace-expansion
```

```
vscode/jupyter-lsp-middleware@0.2.46
vscode/lsp-notebook-concat@0.1.13
combined-stream
jsprim
dashdash
delayed-stream
extsprintf
ecc-jsbn
extend
fast-deep-equal
fast-myers-diff
fast-json-stable-stringify
follow-redirects
fs-extra
form-data
getpass
har-validator
hash.js
http-signature
iconv-lite
inversify
is-buffer
isstream
jsbn
jsonc-parser
jsonfile
json-schema-traverse
mime-db
mime-types
named-js-regexp
object-hash
os-tmpdir
path-is-absolute
performance-now
psl
punycode
request-progress
safe-buffer
safer-buffer
sshpk
sudo-prompt
throttleit
tmp
uint64be
unicode
universalify
untildify
uuid
verror
vscode-debugadapter
vscode-debugprotocol
vscode-extension-telemetry
vscode-jsonrpc-next.1
vscode-languageclient-next.3
vscode-languageserver-next.3
vscode-languageserver-protocol-next.3
vscode-languageserver-types-next.2
vscode-nls
vscode-uri
xml2js
xmlbuilder

MIT License
```

```
Permission is hereby granted, free of charge, to any person obtaining a
 copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
 to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

---------separator---------------------------------
lodash (MIT)

Copyright OpenJS Foundation and other contributors

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code displayed within the prose of the
documentation.
```

```
CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

Files located in the node_modules and vendor directories are externally
maintained libraries used by this software which have their own
licenses; we recommend you read them, as their terms may differ from the
terms above.

---------separator---------------------------------
tweetnacl  - Unlicense


This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to


---------separator---------------------------------
```

Provider: Microsoft Corporation / Component(s): References view extension for VS Code 1.0.0

```
MIT License

    Copyright (c) Microsoft Corporation. All rights reserved.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
```

```
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE

--------separator----------
vscode-nls@5.0.1

The MIT License (MIT)

Copyright (c) Microsoft Corporation

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation
files (the "Software"), to deal in the Software without restriction,
 including without
limitation the rights to use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies of the
 Software, and
to permit persons to whom the Software
is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
 NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT
OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 SOFTWARE.
```

Provider: Mihail Diordiev / Component(s): redux-devtools-extension 2.13.8

```
=== ==========================================================================
------------------------------- Top-level license --------------------------

    == NAME OF DEPENDENCY
    . redux-devtools-extension@2.13.8
    == License Type
    . MIT
    == Copyright Notices And License
    The MIT License (MIT)
```

```
Copyright (c) 2015-present Mihail Diordiev

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Milo Yip / Component(s): Rapid JSON 1.1.0-563fe5b

```
Tencent is pleased to support the open source community by making RapidJSON
 available.

Copyright (C) 2015 THL A29 Limited, a Tencent company, and Milo Yip.  All
 rights reserved.

If you have downloaded a copy of the RapidJSON binary from Tencent, please
 note that the
RapidJSON binary is licensed under the MIT License.
If you have downloaded a copy of the RapidJSON source code from Tencent,
 please note that
RapidJSON source code is licensed under the MIT License, except for the
 third-party
components listed below which are subject to different license terms.  Your
 integration of
RapidJSON into your own projects may require compliance with the MIT
 License, as well as
the other licenses applicable to the third-party components included within
 RapidJSON. To
avoid the problematic JSON license in your own projects, it's sufficient to
 exclude the
bin/jsonchecker/ directory, as it's the only code under the JSON license.
A copy of the MIT License is included in this file.

Other dependencies and licenses:

Open Source Software Licensed Under the BSD License:
--------------------------------------------------------------------------

The msinttypes r29
Copyright (c) 2006-2013 Alexander Chemeris
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this list of
conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of
conditions and the following disclaimer in the documentation and/or other
 materials
provided with the distribution.
* Neither the name of  copyright holder nor the names of its contributors
 may be used to
endorse or promote products derived from this software without specific
 prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL THE
REGENTS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Open Source Software Licensed Under the JSON License:
----------------------------------------------------------------------

json.org
Copyright (c) 2002 JSON.org
All Rights Reserved.

JSON_checker
Copyright (c) 2002 JSON.org
All Rights Reserved.


Terms of the JSON License:
---------------------------------------------------

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

The Software shall be used for Good, not Evil.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.


Terms of the MIT License:
--------------------------------------------------------------------

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: Mitchell Hashimoto / Component(s): go-testing-interface 1.0.0

```
The MIT License (MIT)

Copyright (c) 2016 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Mockito / Component(s): mockito-core 4.9.0

```
------------------------------ Top-Level License
 -------------------------------
SPDX:MIT

---------------------------------- Copyright
 -----------------------------------

Copyright (c) 2007 Mockito contributors


-------------------------- Fourth Party Dependencies
 ---------------------------

------------------------------------ Licenses
 ------------------------------------

- Apache-2.0

---------------------------------- (separator)
 ------------------------------------

== Dependency
net.bytebuddy:byte-buddy

SPDX:Apache-2.0

== Copyright
Copyright 2014 - Present Rafael Winterhalter

---------------------------------- (separator)
 ------------------------------------

== Dependency
net.bytebuddy:byte-buddy-agent

SPDX:Apache-2.0

== Copyright
Copyright 2014 - Present Rafael Winterhalter

---------------------------------- (separator)
 ------------------------------------

== Dependency
org.objenesis:objenesis

SPDX:Apache-2.0

== Copyright
Copyright (C) objenesis.org
```

```
----------------------------------- Licenses
 -----------------------------------

SPDX:MIT

The MIT License

Copyright <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


--------------------------------- (separator)
 -----------------------------------

SPDX:Apache-2.0


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
```

```
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
```

```
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Mozilla / Component(s): localForage 1.7.1

```
Copyright 2014 Mozilla

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
```

```
limitations under the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."
```

```
"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.
```

```
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Mozilla / Component(s): localForage 1.7.3

```
Copyright 2014 Mozilla

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/
```

```
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
```

```
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
```

```
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Mozilla / Component(s): Rhino 1.7.9

```
GraalVM uses DToA.java (from Rhino, version 1.7.9)

The Source Code Form of DToA.java is subject to the terms of the Mozilla
 Public License, v. 2.0.  If a copy of the MPL was not distributed with this
 file, You can obtain one at http://mozilla.org/MPL/2.0/.

/****************************************************************
  *
  * The author of this software is David M. Gay.
  *
  * Copyright (c) 1991, 2000, 2001 by Lucent Technologies.
  *
  * Permission to use, copy, modify, and distribute this software for any
  * purpose without fee is hereby granted, provided that this entire notice
  * is included in all copies of any software which is or includes a copy
  * or modification of this software and in all copies of the supporting
  * documentation for such software.
  *
  * THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
  * WARRANTY.  IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY
  * REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
  * OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.
  *
  ***************************************************************/The
 majority of Rhino is licensed under the MPL 2.0:

Mozilla Public License Version 2.0
-----------------

1. Definitions
```

```
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

     (a) any file in Source Code Form that results from an addition to,
         deletion from, or modification of the contents of Covered
         Software; or

     (b) any new file in Source Code Form that contains any Covered
         Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
```

```
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).
```

```
2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).
```

```
3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.
```

```
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------
```

```
10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.
```

Provider: Multiple Contributors / Component(s): YAML support for the Go language 3.0.1

```
This project is covered by two different licenses: MIT and Apache.

#### MIT License ####

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

    apic.go emitterc.go parserc.go readerc.go scannerc.go
    writerc.go yamlh.go yamlprivateh.go
```

```
Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

### Apache License ###

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

-------- License
SPDX:Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
```

Provider: Nadav S. Samet / Component(s): ScalaPB 0.8.4

```
scalapb/ScalaPB 0.8.4
COPYRIGHT: Author Nadav S. Samet
LICENSE: Apache 2.0

    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS




**********************************
Modules:
**********************************
lenses
runtimeJS,
runtimeJVM,
grpcRuntime,
compilerPlugin,
compilerPluginShaded,
proptest,
scalapbc
scalapb-runtime

**********************************
4P Dependencies:
**********************************


org.scala-lang » scala-library 2.12.8

COPYRIGHT and LICENSE:
Scala
Copyright (c) 2002-2018 EPFL
Copyright (c) 2011-2018 Lightbend, Inc.

Scala includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This software includes projects with other licenses -- see `doc/LICENSE.md`.



---
com.google.protobuf » protobuf-java 3.6.1
com.google.protobuf » protobuf-java 3.5.1
COPYRIGHT and LICENSE:
```

```
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.


---
com.lihaoyi » fastparse_2.12 1.0.0
com.lihaoyi » fastparse-utils_2.12 1.0.0
com.lihaoyi » sourcecode_2.12 0.1.4

COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2014 Li Haoyi (haoyi.sg@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


---
```

```
io.grpc » grpc-stub 1.18.0
io.grpc » grpc-protobuf 1.18.0
io.grpc » grpc-core 1.18.0
io.grpc » grpc-protobuf-lite 1.18.0
COPYRIGHT: Copyright 2014 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc/blob/v1.18.0/LICENSE



---
com.google.guava » guava 25.1-android
COPYRIGHT: Copyright (C) 2008 The Guava Authors
LICENSE: Apache 2.0 https://github.com/google/guava/blob/v25.1/COPYING


---
com.google.api.grpc » proto-google-common-protos 1.12.0
COPYRIGHT and LICENSE:
Copyright 2016, Google Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
com.thesamet.scalapb » protoc-bridge_2.12 0.7.3
Copyright: Author Nadav S. Samet
LICENSE: Apache 2.0 https://github.com/scalapb/protoc-bridge/blob/v0.7.3/
LICENSE
```

Provider: Nadav S. Samet / Component(s): scalapb-json4s 0.7.2

```
com.thesamet.scalapb:scalapb-json4s:0.7.2
Author Nadav S. Samet

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
```

```
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



-----------------
4P Dependencies:

com.google.protobuf » protobuf-java 3.6.1
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
```

```
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.


---
com.lihaoyi » fastparse_2.12 1.0.0

Copyright (c) 2014 Li Haoyi (haoyi.sg@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


---
org.json4s » json4s-jackson_2.12 3.6.2
org.json4s » json4s-core_2.12 3.6.2
org.json4s » json4s-ast_2.12 3.6.2
org.json4s » json4s-scalap_2.12 3.6.2
COPYRIGHT: * Copyright 2006-present json4s community
LICENSE: Apache


---
org.scala-lang » scala-library 2.12.6
This software includes projects with other licenses -- see `doc/LICENSE.md`.

Copyright (c) 2002-2018 EPFL
Copyright (c) 2011-2018 Lightbend, Inc.

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
  * Neither the name of the EPFL nor the names of its contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
com.thoughtworks.paranamer » paranamer 2.8

 Copyright (c) 2006 Paul Hammant & ThoughtWorks Inc
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

---
com.fasterxml.jackson.core » jackson-databind 2.9.6 (2.9.8 used)
 (c) Fasterxml 2013
```

```
Apache 2.0
```

Provider: NARUSE, Yui / Component(s): ext_monitor 0.1.2

```
https://github.com/nurse/ext_monitor.git

BSD-2-Clause

Copyright (C) 2015 NARUSE, Yui. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

ext/strptime/strptime.c:
date_strptime.c: Coded by Tadayoshi Funaba 2011,2012
Copyright (C) 2004-2007 Koichi Sasada
```

Provider: Nate Finch / Component(s): lumberjack 2.0.0

```
lumberjack

------------------------------ Top-Level License
 -------------------------------
SPDX:MIT

---------------------------------- Copyright
 -----------------------------------
Copyright (c) 2014 Nate Finch
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


mpiler:gc Platform:linux/amd64}
```

Provider: Nate Finch / Component(s): lumberjack 2.2.1

```
------------------------------ Top-Level License
 --------------------------------
SPDX:MIT

----------------------------------- Copyright
 -----------------------------------
Copyright (c) 2014 Nate Finch
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


mpiler:gc Platform:linux/amd64}
```

Provider: Nathan Rajlich / Component(s): Java-WebSocket 1.5.1

```
Copyright (c) 2010-2020 Nathan Rajlich

 Permission is hereby granted, free of charge, to any person
 obtaining a copy of this software and associated documentation
 files (the "Software"), to deal in the Software without
 restriction, including without limitation the rights to use,
 copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the
```

```
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Nathan Voxland / Component(s): Liquibase 4.3.5

```
Copyright © 2016 Liquibase.org. All rights reserved.

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
```

```
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
 limitations under the License.
```

Provider: Nathan Voxland / Component(s): liquibase-core 4.18.0

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
```

```
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

=========================Copyright.txt=======================

   Copyright 2022 Liquibase Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


   ----------------------Forth party
 dependency-----------------------------------
   » opencsv
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
====================Copyrights.txt============================
  Copyright 2005 Bytecode Pty Ltd.

    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

========================Notice.txt==============================

   » commons-lang3
   License --> Apache 2.0 License (see above)
==========================Notice.txt==============================
   Apache Commons Lang
   Copyright 2001-2021 The Apache Software Foundation

   This product includes software developed at
   The Apache Software Foundation (https://www.apache.org/).


   » commons-text
   License --> Apache 2.0 License (see above)
====================================Notice.txt=================
Apache Commons Text
Copyright 2014-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

   » commons-collections4
   License --> Apache 2.0 License (see above)
=========================Notice.txt=========================
Apache Commons Collections
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
```

```
The Apache Software Foundation (http://www.apache.org/).

   » snakeyaml
   License --> Apache 2.0 License (see above)
   ====================Copyrights.txt==========================
   /**
 * Copyright (c) 2008, SnakeYAML
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
 * in compliance with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
 * or implied. See the License for the specific language governing
 permissions and limitations under
 * the License.
 */
```

Provider: Nathan Voxland / Component(s): liquibase-core 4.27.0

```
Liquibase-Core

License

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
```

```
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2023 Liquibase Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Copyrights
   Copyright 2023 Liquibase Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
========================== 4th Parties ============================

-------------------------- separator ----------------------------
dependency: org.yaml:snakeyaml
license: Apache 2.0 License
license ID: APACHEV2
NOTICES
```

```
Copyright (c) 2008, SnakeYAML

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.
--------------------------- separator ------------------------------

--------------------------- separator ------------------------------
dependency: com.opencsv:opencsv
license: Apache 2.0 License
license ID: APACHEV2  (See licences section)
NOTICES

Copyright 2005 Bytecode Pty Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

--------------------------- separator ------------------------------
dependency: org.apache.commons:commons-lang3
license: Apache 2.0 License
license ID: APACHEV2  (See licences section)
Notices
Apache Commons Lang
Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

--------------------------- separator ------------------------------
dependency: org.apache.commons:commons-text
license: Apache 2.0 License
license ID: APACHEV2  (See licences section)
NOTICES
Apache Commons Text
Copyright 2014-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
--------------------------- separator ------------------------------
dependency: org.apache.commons:commons-collections4
license: Apache 2.0 License
license ID: APACHEV2  (See licences section)
NOTICES
Apache Commons Collections
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
```

```
========================== Licenses ==============================
Apache 2.0 License
===================
ID: APACHEV2
 - 0org.yaml:snakeyaml
 - com.opencsv:opencsv
 - org.apache.commons:commons-lang3
 - org.apache.commons:commons-text
 - org.apache.commons:commons-collections4

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
```

```
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
 grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free, irrevocable copyright license to reproduce, prepare Derivative Works
 of, publicly display, publicly perform, sublicense, and distribute the Work
 and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
 grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free, irrevocable (except as stated in this section) patent license to make,
 have made, use, offer to sell, sell, import, and otherwise transfer the
 Work, where such license applies only to those patent claims licensable by
 such Contributor that are necessarily infringed by their Contribution(s)
 alone or by combination of their Contribution(s) with the Work to which
 such Contribution(s) was submitted. If You institute patent litigation
 against any entity (including a cross-claim or counterclaim in a lawsuit)
 alleging that the Work or a Contribution incorporated within the Work
 constitutes direct or contributory patent infringement, then any patent
 licenses granted to You under this License for that Work shall terminate as
 of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof in any medium, with or without modifications, and in Source or
 Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
```

```
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted for inclusion in the Work by You to the Licensor shall be under
 the terms and conditions of this License, without any additional terms or
 conditions. Notwithstanding the above, nothing herein shall supersede or
 modify the terms of any separate license agreement you may have executed
 with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
 service marks, or product names of the Licensor, except as required for
 reasonable and customary use in describing the origin of the Work and
 reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the Work (and each Contributor provides its Contributions) on an "AS IS"
 BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied, including, without limitation, any warranties or conditions of
 TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR
 PURPOSE. You are solely responsible for determining the appropriateness of
 using or redistributing the Work and assume any risks associated with Your
 exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence), contract, or otherwise, unless required by applicable law
 (such as deliberate and grossly negligent acts) or agreed to in writing,
 shall any Contributor be liable to You for damages, including any direct,
 indirect, special, incidental, or consequential damages of any character
 arising as a result of this License or out of the use or inability to use
 the Work (including but not limited to damages for loss of goodwill, work
 stoppage, computer failure or malfunction, or any and all other commercial
 damages or losses), even if such Contributor has been advised of the
 possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
 offer, and charge a fee for, acceptance of support, warranty, indemnity,
 or other liability obligations and/or rights consistent with this License.
 However, in accepting such obligations, You may act only on Your own behalf
 and on Your sole responsibility, not on behalf of any other Contributor,
 and only if You agree to indemnify, defend, and hold each Contributor
 harmless for any liability incurred by, or claims asserted against, such
 Contributor by reason of your accepting any such warranty or additional
 liability.
========================================================================
```

Provider: Ned Batchelder / Component(s): coverage 4.5.1

```
Copyright 2001 Gareth Rees.  All rights reserved.
Copyright 2004-2018 Ned Batchelder.  All rights reserved.
```

```
Except where noted otherwise, this software is licensed under the Apache
License, Version 2.0 (the "License"); you may not use this work except in
compliance with the License.  You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


================================================================
LICENSE file from same package:


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
```

Provider: Ned Batchelder / Component(s): coverage 4.5.2

```
Copyright 2001 Gareth Rees.  All rights reserved.
Copyright 2004-2018 Ned Batchelder.  All rights reserved.

Except where noted otherwise, this software is licensed under the Apache
License, Version 2.0 (the "License"); you may not use this work except in
compliance with the License.  You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


================================================================
LICENSE file from same package:


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
```

```
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
```

```
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
```

Provider: Network New Technologies Inc. / Component(s): json-schema-validator 1.0.49

```
          Json-schema-validator
                   ======================


Copyright (c) 2019 Network New Technologies Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


==============================================================================
Third Party Dependencies
==============================================================================

This project includes or depends on code from third party projects.

The following are attribution notices from dependencies:

-----------------
Undertow
-----------------

JBoss, Home of Professional Open Source.
Copyright 2014 Red Hat, Inc., and individual contributors
as indicated by the @author tags.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
```

```
limitations under the License.

-----------------
Jackson
-----------------

This copy of Jackson JSON processor streaming parser/generator is licensed
 under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

-----------------
SLF4J
-----------------

Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

https://www.slf4j.org/license.html

-----------------
Commons-lang3
-----------------

Licensed to the Apache Software Foundation (ASF) under one or more
contributor license agreements.  See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License.  You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------
```

```
Logback
-----------------

Logback: the reliable, generic, fast and flexible logging framework.
Copyright (C) 1999-2015, QOS.ch. All rights reserved.

This program and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation

  or (per the licensee's choosing)

under the terms of the GNU Lesser General Public License version 2.1
as published by the Free Software Foundation.
```

Provider: Network New Technologies Inc. / Component(s): json-schema-validator 1.5.0

```
Json-schema-validator
=====================

JSON Schema Validator
Copyright (c) 2016 and onwards Network New Technologies Inc.

// ----------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for
// ----------------------------------------------------------------------

Apache Commons Validator
Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
==========================================================================

         Apache License
       Version 2.0, January 2004
        http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
```

```
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
```

```
You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
```

```
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

===============================================================================
Fourth Party Dependencies
===============================================================================
jackson-databind
org.yaml:snakeyaml

License: Apache 2.0

Copyright (c) 2022 Tatu Saloranta

      This product is licensed to you under the Apache License, Version 2.0
      (the "License"). You may not use this product except in compliance
 with
      the License.

      This product may include a number of subcomponents with separate
      copyright notices and license terms. Your use of the source code for
      these subcomponents is subject to the terms and conditions of the
      subcomponent's license, as noted in the license.txt file.

Notice:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

===============================================================================

com.ethlo.time:itu

License: Apache 2.0

/*
 * Internet Time Utility
 *
 * Copyright (C) 2017 Morten Haraldsen (ethlo)
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
```

```
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 *
 */
==============================================================================
jackson-dataformat-yaml

This copy of Jackson JSON processor YAML module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

License: Apache 2.0
==============================================================================
```

Provider: Nginx / Component(s): Nginx 1.12.2

```
/*
 * Copyright (C) 2002-2017 Igor Sysoev
 * Copyright (C) 2011-2017 Nginx, Inc.
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */
```

Provider: Nick Craig-Wood / Component(s): rclone 1.62.2-1.0.1

```
------------------------------- Top-Level License
 -------------------------------
SPDX:MIT

---------------------------------- Copyright
 ----------------------------------
Copyright (C) 2012 by Nick Craig-Wood http://www.craig-wood.com/nick/
Copyright (C) 2019 by Nick Craig-Wood https://www.craig-wood.com/nick/
Copyright (c) 2012, Matt Joiner <anacrolix@gmail.com>.
Copyright (c) 2017-2020 Chris Nelson
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright (c) 2022 namazso <admin@namazso.eu>

-------------------------- Fourth Party Dependencies
 --------------------------

---------------------------------- Licenses
 ----------------------------------
-  Apache-2.0
-  BSD-2-Clause
-  BSD-3-Clause
-  BSD-3-Clause--modified-by-Google
-  CC0-1.0
-  ISC
-  MIT
-  MPL-2.0
-  UPL-1.0

---------------------------------- (separator)
 ----------------------------------

== Dependency
cloud.google.com/go/compute/metadata

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Google LLC
Copyright 2016 Google LLC
Copyright 2018 Google LLC
Copyright 2021 Google LLC
Copyright 2022 Google LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/Azure/azure-sdk-for-go/sdk/azcore

== License Type
SPDX:MIT

== Copyright
Copyright (c) Microsoft Corporation.
Copyright (c) Microsoft Corporation. All rights reserved.
Copyright 2017 Microsoft Corporation. All rights reserved.

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
github.com/Azure/azure-sdk-for-go/sdk/azidentity

== License Type
SPDX:MIT

== Copyright
Copyright (c) Microsoft Corporation.
Copyright (c) Microsoft Corporation. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Azure/azure-sdk-for-go/sdk/internal

== License Type
SPDX:MIT

== Copyright
Copyright (c) Microsoft Corporation.
Copyright (c) Microsoft Corporation. All rights reserved.
Copyright 2017 Microsoft Corporation. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Azure/azure-sdk-for-go/sdk/storage/azblob

== License Type
SPDX:MIT

== Copyright
Copyright (c) Microsoft Corporation. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Azure/go-ntlmssp

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Microsoft

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/AzureAD/microsoft-authentication-library-for-go

== License Type
SPDX:MIT

== Copyright
Copyright (c) Microsoft Corporation.
Copyright (c) Microsoft Corporation.  All rights reserved. Licensed under
 the MIT License (the "License").

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/Max-Sum/base32768

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2019 Max Sum

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/ProtonMail/go-crypto

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (C) 2018 ProtonTech AG
Copyright (C) 2019 ProtonTech AG
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2011 ThePiachu. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 Matthew Endsley
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2019 ProtonTech AG.
Copyright 2023 Proton AG. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Unknwon/goconfig
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 Unknwon

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/a8m/tree

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015-2017 Ariel Mashraki

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/aalpar/deheap

== License Type
SPDX:MIT

== Copyright
Copyright 2012 by the Go authors
Copyright 2019 Aaron H. Alpar

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/abbot/go-http-auth

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012-2013 Lev Shamardin

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/anacrolix/dms

== License Type
```

Provider: Nicolaas Johannes Out / Component(s): fast-stable-stringify 1.0.0

```
MIT License

Copyright (c) 2017 Nicolaas Johannes Out

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Niek Haarman / Component(s): mockito-kotlin 2.1.0

```
The MIT License

Copyright (c) 2016 Niek Haarman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

mockito-core (org.mockito:mockito-core:2.23.0)
The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
-----------------
FOURTH PARTY LIBRARIES

Byte Buddy (without dependencies) (net.bytebuddy:byte-buddy:1.9.0 - http://
bytebuddy.net/byte-buddy)
Byte Buddy Java agent (net.bytebuddy:byte-buddy-agent:1.9.0 - http://
bytebuddy.net/byte-buddy-agent)
Objenesis (org.objenesis:objenesis:2.6 - http://objenesis.org)

Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: NimbusDS / Component(s): Nimbus JOSE+JWT 8.2

```
Copyright 2012 - 2018, Connect2id Ltd.
Apache 2.0
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
```

```
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and
```

```
(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
```

```
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

========================

4P Dependencies:


com.github.stephenc.jcip » jcip-annotations 1.0-1
COPYRIGHT: Copyright 2013 Stephen Connolly.
LICENSE: Apache 2.0

net.minidev » json-smart 1.3.1, 2.3
COPYRIGHT: Copyright 2011 JSON-SMART authors
LICENSE: Apache 2.0
```

Provider: Noah Spurrier / Component(s): Pexpect 4.7.0

```
pexpect 4.7.0
COPYRIGHT and LICENSE:

ISC LICENSE

    This license is approved by the OSI and FSF as GPL-compatible.
        http://opensource.org/licenses/isc-license.txt

    Copyright (c) 2013-2014, Pexpect development team
    Copyright (c) 2012, Noah Spurrier <noah@noah.org>

    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



**********************
4P Dependencies:
**********************
```

```
ptyprocess>=0.5
COPYRIGHT and LICENSE:
Ptyprocess is under the ISC license, as code derived from Pexpect.
    http://opensource.org/licenses/ISC

Copyright (c) 2013-2014, Pexpect development team
Copyright (c) 2012, Noah Spurrier <noah@noah.org>

PERMISSION TO USE, COPY, MODIFY, AND/OR DISTRIBUTE THIS SOFTWARE FOR ANY
 PURPOSE
WITH OR WITHOUT FEE IS HEREBY GRANTED, PROVIDED THAT THE ABOVE COPYRIGHT
 NOTICE
AND THIS PERMISSION NOTICE APPEAR IN ALL COPIES. THE SOFTWARE IS PROVIDED
"AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT
SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
 CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
 PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
 ARISING
OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```

Provider: Node.js Foundation / Component(s): Node.js 14.16.1

```
Node.js is licensed for use as follows:

"""
Copyright Node.js contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
"""

This license applies to parts of Node.js originating from the
https://github.com/joyent/node repository:

"""
Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
"""

The Node.js license applies to all parts of Node.js that are not externally
maintained libraries.

The externally maintained libraries used by Node.js are:

- Acorn, located at deps/acorn, is licensed as follows:
  """
    Copyright (C) 2012-2018 by various contributors (see AUTHORS)

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.
  """

- Acorn plugins, located at deps/acorn-plugins, is licensed as follows:
  """
    Copyright (C) 2017-2018 by Adrian Heine

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:
```

```
    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.
  """

- c-ares, located at deps/cares, is licensed as follows:
  """
    Copyright (c) 2007 - 2018, Daniel Stenberg with many contributors, see
 AUTHORS
    file.

    Copyright 1998 by the Massachusetts Institute of Technology.

    Permission to use, copy, modify, and distribute this software and its
    documentation for any purpose and without fee is hereby granted,
 provided that
    the above copyright notice appear in all copies and that both that
 copyright
    notice and this permission notice appear in supporting documentation,
 and that
    the name of M.I.T. not be used in advertising or publicity pertaining to
    distribution of the software without specific, written prior permission.
    M.I.T. makes no representations about the suitability of this software
 for any
    purpose.  It is provided "as is" without express or implied warranty.
  """

- cjs-module-lexer, located at deps/cjs-module-lexer, is licensed as
 follows:
  """
    MIT License
    -----------

    Copyright (C) 2018-2020 Guy Bedford

    Permission is hereby granted, free of charge, to any person obtaining a
 copy of this software and associated documentation files (the "Software"),
 to deal in the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
  """

- libuv, located at deps/uv, is licensed as follows:
  """
    libuv is licensed for use as follows:

    ====
    Copyright (c) 2015-present libuv project contributors.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
    deal in the Software without restriction, including without limitation
 the
    rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or
    sell copies of the Software, and to permit persons to whom the Software
 is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
    IN THE SOFTWARE.
    ====

    This license applies to parts of libuv originating from the
    https://github.com/joyent/libuv repository:

    ====

    Copyright Joyent, Inc. and other Node contributors. All rights reserved.
    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
    deal in the Software without restriction, including without limitation
 the
    rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or
    sell copies of the Software, and to permit persons to whom the Software
 is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
```

```
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
    IN THE SOFTWARE.

    ====

    This license applies to all parts of libuv that are not externally
    maintained libraries.

    The externally maintained libraries used by libuv are:

      - tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD
 license.

      - inet_pton and inet_ntop implementations, contained in src/inet.c,
 are
        copyright the Internet Systems Consortium, Inc., and licensed under
 the ISC
        license.

      - stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris.
 Three
        clause BSD license.

      - pthread-fixes.c, copyright Google Inc. and Sony Mobile
 Communications AB.
        Three clause BSD license.

      - android-ifaddrs.h, android-ifaddrs.c, copyright Berkeley Software
 Design
        Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant
 agreement
        n° 289016). Three clause BSD license.
  """

- llhttp, located at deps/llhttp, is licensed as follows:
  """
    This software is licensed under the MIT License.

    Copyright Fedor Indutny, 2018.

    Permission is hereby granted, free of charge, to any person obtaining a
    copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, sublicense, and/or sell copies of the Software, and to
 permit
    persons to whom the Software is furnished to do so, subject to the
    following conditions:

    The above copyright notice and this permission notice shall be included
    in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
    OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
 IN
    NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
    DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
    OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
 THE
    USE OR OTHER DEALINGS IN THE SOFTWARE.
  """
```

```
- Punycode.js, located at lib/punycode.js, is licensed as follows:
  """
    Copyright Mathias Bynens <https://mathiasbynens.be/>

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, sublicense, and/or sell copies of the Software, and to
    permit persons to whom the Software is furnished to do so, subject to
    the following conditions:

    The above copyright notice and this permission notice shall be
    included in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
    EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
    LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
    OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
    WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  """

- V8, located at deps/v8, is licensed as follows:
  """
    This license applies to all parts of V8 that are not externally
    maintained libraries.  The externally maintained libraries used by V8
    are:

      - PCRE test suite, located in
        test/mjsunit/third_party/regexp-pcre/regexp-pcre.js.  This is based
 on the
        test suite from PCRE-7.3, which is copyrighted by the University
        of Cambridge and Google, Inc.  The copyright notice and license
        are embedded in regexp-pcre.js.

      - Layout tests, located in test/mjsunit/third_party/object-keys.
 These are
        based on layout tests from webkit.org which are copyrighted by
        Apple Computer, Inc. and released under a 3-clause BSD license.

      - Strongtalk assembler, the basis of the files assembler-arm-inl.h,
        assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h,
        assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h,
        assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h,
        assembler-mips.cc, assembler-mips.h, assembler.cc and assembler.h.
        This code is copyrighted by Sun Microsystems Inc. and released
        under a 3-clause BSD license.

      - Valgrind client API header, located at src/third_party/valgrind/
valgrind.h
        This is released under the BSD license.

      - The Wasm C/C++ API headers, located at third_party/wasm-api/wasm.
{h,hh}
        This is released under the Apache license. The API's upstream
 prototype
        implementation also formed the basis of V8's implementation in
        src/wasm/c-api.cc.

    These libraries have their own licenses; we recommend you read them,
    as their terms may differ from the terms below.
```

```
    Further license information can be found in LICENSE files located in
    sub-directories.

    Copyright 2014, the V8 project authors. All rights reserved.
    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

        * Redistributions of source code must retain the above copyright
          notice, this list of conditions and the following disclaimer.
        * Redistributions in binary form must reproduce the above
          copyright notice, this list of conditions and the following
          disclaimer in the documentation and/or other materials provided
          with the distribution.
        * Neither the name of Google Inc. nor the names of its
          contributors may be used to endorse or promote products derived
          from this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- SipHash, located at deps/v8/src/third_party/siphash, is licensed as
 follows:
  """
    SipHash reference C implementation

    Copyright (c) 2016 Jean-Philippe Aumasson
 <jeanphilippe.aumasson@gmail.com>

    To the extent possible under law, the author(s) have dedicated all
    copyright and related and neighboring rights to this software to the
 public
    domain worldwide. This software is distributed without any warranty.
  """

- npm, located at deps/npm, is licensed as follows:
  """
    The npm application
    Copyright (c) npm, Inc. and Contributors
    Licensed on the terms of The Artistic License 2.0

    Node package dependencies of the npm application
    Copyright (c) their respective copyright owners
    Licensed on their respective license terms

    The npm public registry at https://registry.npmjs.org
    and the npm website at https://www.npmjs.com
    Operated by npm, Inc.
    Use governed by terms published on https://www.npmjs.com

    "Node.js"
    Trademark Joyent, Inc., https://joyent.com
    Neither npm nor npm, Inc. are affiliated with Joyent, Inc.
```

```
The Node.js application
Project of Node Foundation, https://nodejs.org

The npm Logo
Copyright (c) Mathias Pettersson and Brian Hammond

"Gubblebum Blocky" typeface
Copyright (c) Tjarda Koster, https://jelloween.deviantart.com
Used with permission

--------

The Artistic License 2.0

Copyright (c) 2000-2006, The Perl Foundation.

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

This license establishes the terms under which a given free software
Package may be copied, modified, distributed, and/or redistributed.
The intent is that the Copyright Holder maintains some artistic
control over the development of that Package while still keeping the
Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this
license directly with the Copyright Holder of a given Package.  If the
terms of this license do not permit the full use that you propose to
make of the Package, you should contact the Copyright Holder and seek
a different licensing arrangement.

Definitions

    "Copyright Holder" means the individual(s) or organization(s)
    named in the copyright notice for the entire Package.

    "Contributor" means any party that has contributed code or other
    material to the Package, in accordance with the Copyright Holder's
    procedures.

    "You" and "your" means any person who would like to copy,
    distribute, or modify the Package.

    "Package" means the collection of files distributed by the
    Copyright Holder, and derivatives of that collection and/or of
    those files. A given Package may consist of either the Standard
    Version, or a Modified Version.

    "Distribute" means providing a copy of the Package or making it
    accessible to anyone else, or in the case of a company or
    organization, to others outside of your company or organization.

    "Distributor Fee" means any fee that you charge for Distributing
    this Package or providing support for this Package to another
    party.  It does not mean licensing fees.

    "Standard Version" refers to the Package if it has not been
    modified, or has been modified only in ways explicitly requested
    by the Copyright Holder.

    "Modified Version" means the Package, if it has been changed, and
    such changes were not explicitly requested by the Copyright
```

```
        Holder.

        "Original License" means this Artistic License as Distributed with
        the Standard Version of the Package, in its current version or as
        it may be modified by The Perl Foundation in the future.

        "Source" form means the source code, documentation source, and
        configuration files for the Package.

        "Compiled" form means the compiled bytecode, object code, binary,
        or any other form resulting from mechanical transformation or
        translation of the Source form.

    Permission for Use and Modification Without Distribution

    (1)  You are permitted to use the Standard Version and create and use
    Modified Versions for any purpose without restriction, provided that
    you do not Distribute the Modified Version.

    Permissions for Redistribution of the Standard Version

    (2)  You may Distribute verbatim copies of the Source form of the
    Standard Version of this Package in any medium without restriction,
    either gratis or for a Distributor Fee, provided that you duplicate
    all of the original copyright notices and associated disclaimers.  At
    your discretion, such verbatim copies may or may not include a
    Compiled form of the Package.

    (3)  You may apply any bug fixes, portability changes, and other
    modifications made available from the Copyright Holder.  The resulting
    Package will still be considered the Standard Version, and as such
    will be subject to the Original License.

    Distribution of Modified Versions of the Package as Source

    (4)  You may Distribute your Modified Version as Source (either gratis
    or for a Distributor Fee, and with or without a Compiled form of the
    Modified Version) provided that you clearly document how it differs
    from the Standard Version, including, but not limited to, documenting
    any non-standard features, executables, or modules, and provided that
    you do at least ONE of the following:

        (a)  make the Modified Version available to the Copyright Holder
        of the Standard Version, under the Original License, so that the
        Copyright Holder may include your modifications in the Standard
        Version.

        (b)  ensure that installation of your Modified Version does not
        prevent the user installing or running the Standard Version. In
        addition, the Modified Version must bear a name that is different
        from the name of the Standard Version.

        (c)  allow anyone who receives a copy of the Modified Version to
        make the Source form of the Modified Version available to others
        under

            (i)  the Original License or

            (ii)  a license that permits the licensee to freely copy,
            modify and redistribute the Modified Version using the same
            licensing terms that apply to the copy that the licensee
            received, and requires that the Source form of the Modified
            Version, and of any works derived from it, be made freely
            available in that license fees are prohibited but Distributor
```

```
        Fees are allowed.

Distribution of Compiled Forms of the Standard Version
or Modified Versions without the Source

(5)  You may Distribute Compiled forms of the Standard Version without
the Source, provided that you include complete instructions on how to
get the Source of the Standard Version.  Such instructions must be
valid at the time of your distribution.  If these instructions, at any
time while you are carrying out such distribution, become invalid, you
must provide new instructions on demand or cease further distribution.
If you provide valid instructions or cease distribution within thirty
days after you become aware that the instructions are invalid, then
you do not forfeit any of your rights under this license.

(6)  You may Distribute a Modified Version in Compiled form without
the Source, provided that you comply with Section 4 with respect to
the Source of the Modified Version.

Aggregating or Linking the Package

(7)  You may aggregate the Package (either the Standard Version or
Modified Version) with other packages and Distribute the resulting
aggregation provided that you do not charge a licensing fee for the
Package.  Distributor Fees are permitted, and licensing fees for other
components in the aggregation are permitted. The terms of this license
apply to the use and Distribution of the Standard or Modified Versions
as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with
other works, to embed the Package in a larger work of your own, or to
build stand-alone binary or bytecode versions of applications that
include the Package, and Distribute the result without restriction,
provided the result does not expose a direct interface to the Package.

Items That are Not Considered Part of a Modified Version

(9) Works (including, but not limited to, modules and scripts) that
merely extend or make use of the Package, do not, by themselves, cause
the Package to be a Modified Version.  In addition, such works are not
considered parts of the Package itself, and are not subject to the
terms of this license.

General Provisions

(10)  Any use, modification, and distribution of the Standard or
Modified Versions is governed by this Artistic License. By using,
modifying or distributing the Package, you accept this license. Do not
use, modify, or distribute the Package, if you do not accept this
license.

(11)  If your Modified Version has been derived from a Modified
Version made by someone other than you, you are nevertheless required
to ensure that your Modified Version complies with the requirements of
this license.

(12)  This license does not grant you the right to use any trademark,
service mark, tradename, or logo of the Copyright Holder.

(13)  This license includes the non-exclusive, worldwide,
free-of-charge patent license to make, have made, use, offer to sell,
sell, import and otherwise transfer the Package with respect to any
patent claims licensable by the Copyright Holder that are necessarily
infringed by the Package. If you institute patent litigation
```

```
    (including a cross-claim or counterclaim) against any party alleging
    that the Package constitutes direct or contributory patent
    infringement, then this Artistic License to you shall terminate on the
    date that such litigation is filed.

    (14)  Disclaimer of Warranty:
    THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS
    IS' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED
    WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
    NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL
    LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL
    BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL
    DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF
    ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

    --------
  """

- GYP, located at tools/gyp, is licensed as follows:
  """
    Copyright (c) 2009 Google Inc. All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

       * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
       * Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following disclaimer
    in the documentation and/or other materials provided with the
    distribution.
       * Neither the name of Google Inc. nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- inspector_protocol, located at tools/inspector_protocol, is licensed as
 follows:
  """
    // Copyright 2016 The Chromium Authors. All rights reserved.
    //
    // Redistribution and use in source and binary forms, with or without
    // modification, are permitted provided that the following conditions
 are
    // met:
    //
    //    * Redistributions of source code must retain the above copyright
    // notice, this list of conditions and the following disclaimer.
    //    * Redistributions in binary form must reproduce the above
    // copyright notice, this list of conditions and the following
 disclaimer
```

```
    // in the documentation and/or other materials provided with the
    // distribution.
    //    * Neither the name of Google Inc. nor the names of its
    // contributors may be used to endorse or promote products derived from
    // this software without specific prior written permission.
    //
    // THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    // "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    // LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    // A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    // OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    // SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    // LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    // DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    // THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    // (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    // OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- jinja2, located at tools/inspector_protocol/jinja2, is licensed as
 follows:
  """
    Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.

    Some rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

        * Redistributions of source code must retain the above copyright
          notice, this list of conditions and the following disclaimer.

        * Redistributions in binary form must reproduce the above
          copyright notice, this list of conditions and the following
          disclaimer in the documentation and/or other materials provided
          with the distribution.

        * The names of the contributors may not be used to endorse or
          promote products derived from this software without specific
          prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- markupsafe, located at tools/inspector_protocol/markupsafe, is licensed as
 follows:
  """
    Copyright (c) 2010 by Armin Ronacher and contributors.  See AUTHORS
    for more details.

    Some rights reserved.
```

```
    Redistribution and use in source and binary forms of the software as
 well
    as documentation, with or without modification, are permitted provided
    that the following conditions are met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

    THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
    CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
 BUT
    NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 OWNER
    OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
    DAMAGE.
  """

- cpplint.py, located at tools/cpplint.py, is licensed as follows:
  """
    Copyright (c) 2009 Google Inc. All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

       * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
       * Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following disclaimer
    in the documentation and/or other materials provided with the
    distribution.
       * Neither the name of Google Inc. nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """
```

```
- ESLint, located at tools/node_modules/eslint, is licensed as follows:
  """
    Copyright JS Foundation and other contributors, https://js.foundation

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.
  """

- babel-eslint, located at tools/node_modules/babel-eslint, is licensed as
 follows:
  """
    Copyright (c) 2014-2016 Sebastian McKenzie <sebmck@gmail.com>

    MIT License

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, sublicense, and/or sell copies of the Software, and to
    permit persons to whom the Software is furnished to do so, subject to
    the following conditions:

    The above copyright notice and this permission notice shall be
    included in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
    EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
    LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
    OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
    WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  """

- gtest, located at test/cctest/gtest, is licensed as follows:
  """
    Copyright 2008, Google Inc.
    All rights reserved.
```

```
    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

        * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
        * Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following disclaimer
    in the documentation and/or other materials provided with the
    distribution.
        * Neither the name of Google Inc. nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- node-inspect, located at deps/node-inspect, is licensed as follows:
  """
    Copyright Node.js contributors. All rights reserved.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
    deal in the Software without restriction, including without limitation
 the
    rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or
    sell copies of the Software, and to permit persons to whom the Software
 is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
    IN THE SOFTWARE.
  """

- large_pages, located at src/large_pages, is licensed as follows:
  """
     Copyright (C) 2018 Intel Corporation
```

```
    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"),
    to deal in the Software without restriction, including without
 limitation
    the rights to use, copy, modify, merge, publish, distribute,
 sublicense,
    and/or sell copies of the Software, and to permit persons to whom
    the Software is furnished to do so, subject to the following
 conditions:

    The above copyright notice and this permission notice shall be included
    in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
    OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT
 SHALL
    THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
    OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE,
    ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE
    OR OTHER DEALINGS IN THE SOFTWARE.
  """

- caja, located at lib/internal/freeze_intrinsics.js, is licensed as
 follows:
  """
    Adapted from SES/Caja - Copyright (C) 2011 Google Inc.
    Copyright (C) 2018 Agoric

    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
    See the License for the specific language governing permissions and
    limitations under the License.
  """

- brotli, located at deps/brotli, is licensed as follows:
  """
   Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.

   Permission is hereby granted, free of charge, to any person obtaining a
 copy
   of this software and associated documentation files (the "Software"), to
 deal
   in the Software without restriction, including without limitation the
 rights
   to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
   copies of the Software, and to permit persons to whom the Software is
   furnished to do so, subject to the following conditions:

   The above copyright notice and this permission notice shall be included
 in
   all copies or substantial portions of the Software.
```

```
    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.
  """

- HdrHistogram, located at deps/histogram, is licensed as follows:
  """
    The code in this repository code was Written by Gil Tene, Michael
 Barker,
    and Matt Warren, and released to the public domain, as explained at
    http://creativecommons.org/publicdomain/zero/1.0/

    For users of this code who wish to consume it under the "BSD" license
    rather than under the public domain or CC0 contribution text mentioned
    above, the code found under this directory is *also* provided under the
    following license (commonly referred to as the BSD 2-Clause License).
 This
    license does not detract from the above stated release of the code into
    the public domain, and simply represents an additional license granted
 by
    the Author.


 ------------------------------------------------------------------------------
    ** Beginning of "BSD 2-Clause License" text. **

     Copyright (c) 2012, 2013, 2014 Gil Tene
     Copyright (c) 2014 Michael Barker
     Copyright (c) 2014 Matt Warren
     All rights reserved.

     Redistribution and use in source and binary forms, with or without
     modification, are permitted provided that the following conditions are
 met:

     1. Redistributions of source code must retain the above copyright
 notice,
        this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
 notice,
        this list of conditions and the following disclaimer in the
 documentation
        and/or other materials provided with the distribution.

     THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
     AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
     IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
     ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE
     LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
     CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
```

```
     SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
 BUSINESS
     INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
     CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
     ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
     THE POSSIBILITY OF SUCH DAMAGE.
  """

- highlight.js, located at doc/api_assets/highlight.pack.js, is licensed as
 follows:
  """
    BSD 3-Clause License

    Copyright (c) 2006, Ivan Sagalaev.
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
 met:

    * Redistributions of source code must retain the above copyright notice,
 this
      list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.

    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE
    DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR
    SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
    OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- node-heapdump, located at src/heap_utils.cc, is licensed as follows:
  """
    ISC License

    Copyright (c) 2012, Ben Noordhuis <info@bnoordhuis.nl>

    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.
```

```
    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
    OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

    === src/compat.h src/compat-inl.h ===

    ISC License

    Copyright (c) 2014, StrongLoop Inc.

    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
    OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
  """

- rimraf, located at lib/internal/fs/rimraf.js, is licensed as follows:
  """
    The ISC License

    Copyright (c) Isaac Z. Schlueter and Contributors

    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
 OR
    IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
  """

- uvwasi, located at deps/uvwasi, is licensed as follows:
  """
    MIT License

    Copyright (c) 2019 Colin Ihrig and Contributors

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:
```

```
    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE.
  """
```

Provider: Node.js Foundation / Component(s): Node.js 14.18.1

```
Node.js is licensed for use as follows:

"""
Copyright Node.js contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
"""

This license applies to parts of Node.js originating from the
https://github.com/joyent/node repository:

"""
Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
"""

The Node.js license applies to all parts of Node.js that are not externally
maintained libraries.

The externally maintained libraries used by Node.js are:

- Acorn, located at deps/acorn, is licensed as follows:
  """
    MIT License

    Copyright (C) 2012-2018 by various contributors (see AUTHORS)

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.
  """

- Acorn plugins, located at deps/acorn-plugins, is licensed as follows:
  """
    Copyright (C) 2017-2018 by Adrian Heine

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.
```

```
    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.
  """

- c-ares, located at deps/cares, is licensed as follows:
  """
    Copyright (c) 2007 - 2018, Daniel Stenberg with many contributors, see
 AUTHORS
    file.

    Copyright 1998 by the Massachusetts Institute of Technology.

    Permission to use, copy, modify, and distribute this software and its
    documentation for any purpose and without fee is hereby granted,
 provided that
    the above copyright notice appear in all copies and that both that
 copyright
    notice and this permission notice appear in supporting documentation,
 and that
    the name of M.I.T. not be used in advertising or publicity pertaining to
    distribution of the software without specific, written prior permission.
    M.I.T. makes no representations about the suitability of this software
 for any
    purpose.  It is provided "as is" without express or implied warranty.
  """

- cjs-module-lexer, located at deps/cjs-module-lexer, is licensed as
 follows:
  """
    MIT License
    -----------

    Copyright (C) 2018-2020 Guy Bedford

    Permission is hereby granted, free of charge, to any person obtaining a
 copy of this
software and associated documentation files (the "Software"), to deal in
 the
Software without restriction, including without limitation the rights to
 use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies of the
 Software,
and to permit persons to whom the Software is furnished to do so, subject to
 the
following conditions:

    The above copyright notice and this permission notice shall be included
 in all
copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A
```

```
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
 COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 ACTION OF
CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
 SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  """

- ICU, located at deps/icu-small, is licensed as follows:
  """
    COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

    Copyright © 1991-2020 Unicode, Inc. All rights reserved.
    Distributed under the Terms of Use in https://www.unicode.org/
copyright.html.

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of the Unicode data files and any associated documentation
    (the "Data Files") or Unicode software and any associated documentation
    (the "Software") to deal in the Data Files or Software
    without restriction, including without limitation the rights to use,
    copy, modify, merge, publish, distribute, and/or sell copies of
    the Data Files or Software, and to permit persons to whom the Data Files
    or Software are furnished to do so, provided that either
    (a) this copyright and permission notice appear with all copies
    of the Data Files or Software, or
    (b) this copyright and permission notice appear in associated
    Documentation.

    THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
    ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
    WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT OF THIRD PARTY RIGHTS.
    IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
    NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
    DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
    DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
    TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
    PERFORMANCE OF THE DATA FILES OR SOFTWARE.

    Except as contained in this notice, the name of a copyright holder
    shall not be used in advertising or otherwise to promote the sale,
    use or other dealings in these Data Files or Software without prior
    written authorization of the copyright holder.

    ---------------------

    Third-Party Software Licenses

    This section contains third-party software notices and/or additional
    terms for licensed third-party software components included within ICU
    libraries.

    1. ICU License - ICU 1.8.1 to ICU 57.1

    COPYRIGHT AND PERMISSION NOTICE

    Copyright (c) 1995-2016 International Business Machines Corporation and
 others
    All rights reserved.

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of this software and associated documentation files (the
```

```
   "Software"), to deal in the Software without restriction, including
   without limitation the rights to use, copy, modify, merge, publish,
   distribute, and/or sell copies of the Software, and to permit persons
   to whom the Software is furnished to do so, provided that the above
   copyright notice(s) and this permission notice appear in all copies of
   the Software and that both the above copyright notice(s) and this
   permission notice appear in supporting documentation.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
   EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
   MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
   OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
   HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
   SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
   RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
   CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
   CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

   Except as contained in this notice, the name of a copyright holder
   shall not be used in advertising or otherwise to promote the sale, use
   or other dealings in this Software without prior written authorization
   of the copyright holder.

   All trademarks and registered trademarks mentioned herein are the
   property of their respective owners.

   2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

    #     The Google Chrome software developed by Google is licensed under
    # the BSD license. Other software included in this distribution is
    # provided under other licenses, as set forth below.
    #
    #  The BSD License
    #  http://opensource.org/licenses/bsd-license.php
    #  Copyright (C) 2006-2008, Google Inc.
    #
    #  All rights reserved.
    #
    #  Redistribution and use in source and binary forms, with or without
    # modification, are permitted provided that the following conditions
are met:
    #
    #  Redistributions of source code must retain the above copyright
notice,
    # this list of conditions and the following disclaimer.
    #  Redistributions in binary form must reproduce the above
    # copyright notice, this list of conditions and the following
    # disclaimer in the documentation and/or other materials provided with
    # the distribution.
    #  Neither the name of  Google Inc. nor the names of its
    # contributors may be used to endorse or promote products derived from
    # this software without specific prior written permission.
    #
    #
    #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
    # CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
    # INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
    # MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
    # DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
    # LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
    # CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
    # SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
    # BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    # LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
```

```
    # NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    # SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
    #
    #
    #  The word list in cjdict.txt are generated by combining three word
lists
    # listed below with further processing for compound word breaking. The
    # frequency is generated with an iterative training against Google web
    # corpora.
    #
    #  * Libtabe (Chinese)
    #    - https://sourceforge.net/project/?group_id=1519
    #    - Its license terms and conditions are shown below.
    #
    #  * IPADIC (Japanese)
    #    - http://chasen.aist-nara.ac.jp/chasen/distribution.html
    #    - Its license terms and conditions are shown below.
    #
    #  ---------COPYING.libtabe ---- BEGIN--------------------
    #
    #  /*
    #   * Copyright (c) 1999 TaBE Project.
    #   * Copyright (c) 1999 Pai-Hsiang Hsiao.
    #   * All rights reserved.
    #   *
    #   * Redistribution and use in source and binary forms, with or
without
    #   * modification, are permitted provided that the following
conditions
    #   * are met:
    #   *
    #   * . Redistributions of source code must retain the above copyright
    #   *   notice, this list of conditions and the following disclaimer.
    #   * . Redistributions in binary form must reproduce the above
copyright
    #   *   notice, this list of conditions and the following disclaimer in
    #   *   the documentation and/or other materials provided with the
    #   *   distribution.
    #   * . Neither the name of the TaBE Project nor the names of its
    #   *   contributors may be used to endorse or promote products derived
    #   *   from this software without specific prior written permission.
    #   *
    #   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS
    #   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    #   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
    #   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
    #   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
    #   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
    #   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR
    #   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION)
    #   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT,
    #   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
    #   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED
    #   * OF THE POSSIBILITY OF SUCH DAMAGE.
    #   */
    #
    #  /*
    #   * Copyright (c) 1999 Computer Systems and Communication Lab,
    #   *                    Institute of Information Science, Academia
```

```
     #       *                    Sinica. All rights reserved.
     #   *
     #   * Redistribution and use in source and binary forms, with or
 without
     #   * modification, are permitted provided that the following
 conditions
     #   * are met:
     #   *
     #   * . Redistributions of source code must retain the above copyright
     #   *   notice, this list of conditions and the following disclaimer.
     #   * . Redistributions in binary form must reproduce the above
 copyright
     #   *   notice, this list of conditions and the following disclaimer in
     #   *   the documentation and/or other materials provided with the
     #   *   distribution.
     #   * . Neither the name of the Computer Systems and Communication Lab
     #   *   nor the names of its contributors may be used to endorse or
     #   *   promote products derived from this software without specific
     #   *   prior written permission.
     #   *
     #   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS
     #   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
     #   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
     #   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
     #   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
     #   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
     #   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR
     #   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
     #   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT,
     #   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
     #   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED
     #   * OF THE POSSIBILITY OF SUCH DAMAGE.
     #   */
     #
     #  Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
     #      University of Illinois
     #  c-tsai4@uiuc.edu  http://casper.beckman.uiuc.edu/~c-tsai4
     #
     #  ---------------COPYING.libtabe-----
END--------------------------------
     #
     #
     #  ---------------COPYING.ipadic-----
BEGIN--------------------------------
     #
     #  Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
     #  and Technology.  All Rights Reserved.
     #
     #  Use, reproduction, and distribution of this software is permitted.
     #  Any copy of this software, whether in its original form or modified,
     #  must include both the above copyright notice and the following
     #  paragraphs.
     #
     #  Nara Institute of Science and Technology (NAIST),
     #  the copyright holders, disclaims all warranties with regard to this
     #  software, including all implied warranties of merchantability and
     #  fitness, in no event shall NAIST be liable for
     #  any special, indirect or consequential damages or any damages
```

```
    #  whatsoever resulting from loss of use, data or profits, whether in
an
    #  action of contract, negligence or other tortuous action, arising out
    #  of or in connection with the use or performance of this software.
    #
    #  A large portion of the dictionary entries
    #  originate from ICOT Free Software.  The following conditions for
ICOT
    #  Free Software applies to the current dictionary as well.
    #
    #  Each User may also freely distribute the Program, whether in its
    #  original form or modified, to any third party or parties, PROVIDED
    #  that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
    #  on, or be attached to, the Program, which is distributed
substantially
    #  in the same form as set out herein and that such intended
    #  distribution, if actually made, will neither violate or otherwise
    #  contravene any of the laws and regulations of the countries having
    #  jurisdiction over the User or the intended distribution itself.
    #
    #  NO WARRANTY
    #
    #  The program was produced on an experimental basis in the course of
the
    #  research and development conducted during the project and is
provided
    #  to users as so produced on an experimental basis.  Accordingly, the
    #  program is provided without any warranty whatsoever, whether
express,
    #  implied, statutory or otherwise.  The term "warranty" used herein
    #  includes, but is not limited to, any warranty of the quality,
    #  performance, merchantability and fitness for a particular purpose of
    #  the program and the nonexistence of any infringement or violation of
    #  any right of any third party.
    #
    #  Each user of the program will agree and understand, and be deemed to
    #  have agreed and understood, that there is no warranty whatsoever for
    #  the program and, accordingly, the entire risk arising from or
    #  otherwise connected with the program is assumed by the user.
    #
    #  Therefore, neither ICOT, the copyright holder, or any other
    #  organization that participated in or was otherwise related to the
    #  development of the program and their respective officials,
directors,
    #  officers and other employees shall be held liable for any and all
    #  damages, including, without limitation, general, special, incidental
    #  and consequential damages, arising out of or otherwise in connection
    #  with the use or inability to use the program or any product,
material
    #  or result produced or otherwise obtained by using the program,
    #  regardless of whether they have been advised of, or otherwise had
    #  knowledge of, the possibility of such damages at any time during the
    #  project or thereafter.  Each user will be deemed to have agreed to
the
    #  foregoing by his or her commencement of use of the program.  The
term
    #  "use" as used herein includes, but is not limited to, the use,
    #  modification, copying and distribution of the program and the
    #  production of secondary products from the program.
    #
    #  In the case where the program, whether in its original form or
    #  modified, was distributed or delivered to or received by a user from
    #  any person, organization or entity other than ICOT, unless it makes
or
```

```
     #  grants independently of ICOT any specific warranty to the user in
     #  writing, such person, organization or entity, will also be exempted
     #  from and not be held liable to the user for any such damages as
 noted
     #  above as far as the program is concerned.
     #
     #  ---------------COPYING.ipadic-----
END----------------------------------

    3. Lao Word Break Dictionary Data (laodict.txt)

     #  Copyright (c) 2013 International Business Machines Corporation
     #  and others. All Rights Reserved.
     #
     # Project: https://github.com/veer66/lao-dictionary
     # Dictionary:
https://github.com/veer66/lao-dictionary/blob/master/Lao-Dictionary.txt
     # License:
https://github.com/veer66/lao-dictionary/blob/master/Lao-Dictionary-
LICENSE.txt
     #              (copied below)
     #
     #  This file is derived from the above dictionary, with slight
     #  modifications.
     #
 ----------------------------------------------------------------------
     #  Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
     #  All rights reserved.
     #
     #  Redistribution and use in source and binary forms, with or without
     #  modification,
     #  are permitted provided that the following conditions are met:
     #
     #
     # Redistributions of source code must retain the above copyright
 notice, this
     #  list of conditions and the following disclaimer. Redistributions in
     #  binary form must reproduce the above copyright notice, this list of
     #  conditions and the following disclaimer in the documentation and/or
     #  other materials provided with the distribution.
     #
     #
     # THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
     # "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
     # LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
     # FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
     # COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
     # INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
     # (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
     # SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
     # HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
     # STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
     # ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
     # OF THE POSSIBILITY OF SUCH DAMAGE.
     #
 ---------------------------------------------------------------------------

    4. Burmese Word Break Dictionary Data (burmesedict.txt)

     #  Copyright (c) 2014 International Business Machines Corporation
     #  and others. All Rights Reserved.
     #
     #  This list is part of a project hosted at:
     #    github.com/kanyawtech/myanmar-karen-word-lists
```

```
    #
    #
-----------------------------------------------------------------------------
    #  Copyright (c) 2013, LeRoy Benjamin Sharon
    #  All rights reserved.
    #
    #  Redistribution and use in source and binary forms, with or without
    #  modification, are permitted provided that the following conditions
    #  are met: Redistributions of source code must retain the above
    #  copyright notice, this list of conditions and the following
    #  disclaimer.  Redistributions in binary form must reproduce the
    #  above copyright notice, this list of conditions and the following
    #  disclaimer in the documentation and/or other materials provided
    #  with the distribution.
    #
    #    Neither the name Myanmar Karen Word Lists, nor the names of its
    #    contributors may be used to endorse or promote products derived
    #    from this software without specific prior written permission.
    #
    #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
    #  CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
    #  INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
    #  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
    #  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
    #  BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    #  EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
    #  TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    #  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
    #  ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
    #  TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
    #  THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    #  SUCH DAMAGE.
    #
-----------------------------------------------------------------------------

   5. Time Zone Database

     ICU uses the public domain data and code derived from Time Zone
   Database for its time zone support. The ownership of the TZ database
   is explained in BCP 175: Procedure for Maintaining the Time Zone
   Database section 7.

    # 7.  Database Ownership
    #
    #    The TZ database itself is not an IETF Contribution or an IETF
    #    document.  Rather it is a pre-existing and regularly updated work
    #    that is in the public domain, and is intended to remain in the
    #    public domain.  Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
    #    not apply to the TZ Database or contributions that individuals
make
    #    to it.  Should any claims be made and substantiated against the TZ
    #    Database, the organization that is providing the IANA
    #    Considerations defined in this RFC, under the memorandum of
    #    understanding with the IETF, currently ICANN, may act in
accordance
    #    with all competent court orders.  No ownership claims will be made
    #    by ICANN or the IETF Trust on the database or the code.  Any
person
    #    making a contribution to the database or code waives all rights to
    #    future claims in that contribution or in the TZ Database.

   6. Google double-conversion

   Copyright 2006-2011, the V8 project authors. All rights reserved.
```

```
    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

        * Redistributions of source code must retain the above copyright
          notice, this list of conditions and the following disclaimer.
        * Redistributions in binary form must reproduce the above
          copyright notice, this list of conditions and the following
          disclaimer in the documentation and/or other materials provided
          with the distribution.
        * Neither the name of Google Inc. nor the names of its
          contributors may be used to endorse or promote products derived
          from this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- libuv, located at deps/uv, is licensed as follows:
  """
    libuv is licensed for use as follows:

    ====
    Copyright (c) 2015-present libuv project contributors.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
    deal in the Software without restriction, including without limitation
 the
    rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or
    sell copies of the Software, and to permit persons to whom the Software
 is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
    IN THE SOFTWARE.
    ====

    This license applies to parts of libuv originating from the
    https://github.com/joyent/libuv repository:
```

```
    ====

    Copyright Joyent, Inc. and other Node contributors. All rights reserved.
    Permission is hereby granted, free of charge, to any person obtaining a
copy
    of this software and associated documentation files (the "Software"), to
    deal in the Software without restriction, including without limitation
the
    rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or
    sell copies of the Software, and to permit persons to whom the Software
is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS
    IN THE SOFTWARE.

    ====

    This license applies to all parts of libuv that are not externally
    maintained libraries.

    The externally maintained libraries used by libuv are:

      - tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD
license.

      - inet_pton and inet_ntop implementations, contained in src/inet.c,
are
        copyright the Internet Systems Consortium, Inc., and licensed under
the ISC
        license.

      - stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris.
Three
        clause BSD license.

      - pthread-fixes.c, copyright Google Inc. and Sony Mobile
Communications AB.
        Three clause BSD license.

      - android-ifaddrs.h, android-ifaddrs.c, copyright Berkeley Software
Design
        Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant
agreement
        n° 289016). Three clause BSD license.
  """

- llhttp, located at deps/llhttp, is licensed as follows:
  """
    This software is licensed under the MIT License.
```

```
    Copyright Fedor Indutny, 2018.

    Permission is hereby granted, free of charge, to any person obtaining a
    copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, sublicense, and/or sell copies of the Software, and to
 permit
    persons to whom the Software is furnished to do so, subject to the
    following conditions:

    The above copyright notice and this permission notice shall be included
    in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
    OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
 IN
    NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
    DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
    OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
 THE
    USE OR OTHER DEALINGS IN THE SOFTWARE.
  """

- OpenSSL, located at deps/openssl, is licensed as follows:
  """
    Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

    3. All advertising materials mentioning features or use of this
    software must display the following acknowledgment:
    "This product includes software developed by the OpenSSL Project
    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"

    4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
    endorse or promote products derived from this software without
    prior written permission. For written permission, please contact
    openssl-core@openssl.org.

    5. Products derived from this software may not be called "OpenSSL"
    nor may "OpenSSL" appear in their names without prior written
    permission of the OpenSSL Project.

    6. Redistributions of any form whatsoever must retain the following
    acknowledgment:
    "This product includes software developed by the OpenSSL Project
    for use in the OpenSSL Toolkit (http://www.openssl.org/)"

    THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
    EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
```

```
    ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
    NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
    LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
    STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
    ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
    OF THE POSSIBILITY OF SUCH DAMAGE.
    =====================================================================

    This product includes cryptographic software written by Eric Young
    (eay@cryptsoft.com).  This product includes software written by Tim
    Hudson (tjh@cryptsoft.com).
  """

- Punycode.js, located at lib/punycode.js, is licensed as follows:
  """
    Copyright Mathias Bynens <https://mathiasbynens.be/>

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, sublicense, and/or sell copies of the Software, and to
    permit persons to whom the Software is furnished to do so, subject to
    the following conditions:

    The above copyright notice and this permission notice shall be
    included in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
    EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
    LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
    OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
    WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  """

- V8, located at deps/v8, is licensed as follows:
  """
    This license applies to all parts of V8 that are not externally
    maintained libraries.  The externally maintained libraries used by V8
    are:

      - PCRE test suite, located in
        test/mjsunit/third_party/regexp-pcre/regexp-pcre.js.  This is based
 on the
        test suite from PCRE-7.3, which is copyrighted by the University
        of Cambridge and Google, Inc.  The copyright notice and license
        are embedded in regexp-pcre.js.

      - Layout tests, located in test/mjsunit/third_party/object-keys.
 These are
        based on layout tests from webkit.org which are copyrighted by
        Apple Computer, Inc. and released under a 3-clause BSD license.

      - Strongtalk assembler, the basis of the files assembler-arm-inl.h,
        assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h,
        assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h,
        assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h,
        assembler-mips.cc, assembler-mips.h, assembler.cc and assembler.h.
        This code is copyrighted by Sun Microsystems Inc. and released
        under a 3-clause BSD license.
```

```
      - Valgrind client API header, located at src/third_party/valgrind/
valgrind.h
        This is released under the BSD license.

      - The Wasm C/C++ API headers, located at third_party/wasm-api/wasm.
{h,hh}
        This is released under the Apache license. The API's upstream
 prototype
        implementation also formed the basis of V8's implementation in
        src/wasm/c-api.cc.

    These libraries have their own licenses; we recommend you read them,
    as their terms may differ from the terms below.

    Further license information can be found in LICENSE files located in
    sub-directories.

    Copyright 2014, the V8 project authors. All rights reserved.
    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

        * Redistributions of source code must retain the above copyright
          notice, this list of conditions and the following disclaimer.
        * Redistributions in binary form must reproduce the above
          copyright notice, this list of conditions and the following
          disclaimer in the documentation and/or other materials provided
          with the distribution.
        * Neither the name of Google Inc. nor the names of its
          contributors may be used to endorse or promote products derived
          from this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- SipHash, located at deps/v8/src/third_party/siphash, is licensed as
 follows:
  """
    SipHash reference C implementation

    Copyright (c) 2016 Jean-Philippe Aumasson
 <jeanphilippe.aumasson@gmail.com>

    To the extent possible under law, the author(s) have dedicated all
    copyright and related and neighboring rights to this software to the
 public
    domain worldwide. This software is distributed without any warranty.
  """

- zlib, located at deps/zlib, is licensed as follows:
  """
    zlib.h -- interface of the 'zlib' general purpose compression library
    version 1.2.11, January 15th, 2017
```

```
    Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

    This software is provided 'as-is', without any express or implied
    warranty.  In no event will the authors be held liable for any damages
    arising from the use of this software.

    Permission is granted to anyone to use this software for any purpose,
    including commercial applications, and to alter it and redistribute it
    freely, subject to the following restrictions:

    1. The origin of this software must not be misrepresented; you must not
    claim that you wrote the original software. If you use this software
    in a product, an acknowledgment in the product documentation would be
    appreciated but is not required.
    2. Altered source versions must be plainly marked as such, and must not
 be
    misrepresented as being the original software.
    3. This notice may not be removed or altered from any source
 distribution.

    Jean-loup Gailly        Mark Adler
    jloup@gzip.org          madler@alumni.caltech.edu
  """

- npm, located at deps/npm, is licensed as follows:
  """
    The npm application
    Copyright (c) npm, Inc. and Contributors
    Licensed on the terms of The Artistic License 2.0

    Node package dependencies of the npm application
    Copyright (c) their respective copyright owners
    Licensed on their respective license terms

    The npm public registry at https://registry.npmjs.org
    and the npm website at https://www.npmjs.com
    Operated by npm, Inc.
    Use governed by terms published on https://www.npmjs.com

    "Node.js"
    Trademark Joyent, Inc., https://joyent.com
    Neither npm nor npm, Inc. are affiliated with Joyent, Inc.

    The Node.js application
    Project of Node Foundation, https://nodejs.org

    The npm Logo
    Copyright (c) Mathias Pettersson and Brian Hammond

    "Gubblebum Blocky" typeface
    Copyright (c) Tjarda Koster, https://jelloween.deviantart.com
    Used with permission

    --------

    The Artistic License 2.0

    Copyright (c) 2000-2006, The Perl Foundation.

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble
```

```
This license establishes the terms under which a given free software
Package may be copied, modified, distributed, and/or redistributed.
The intent is that the Copyright Holder maintains some artistic
control over the development of that Package while still keeping the
Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this
license directly with the Copyright Holder of a given Package.  If the
terms of this license do not permit the full use that you propose to
make of the Package, you should contact the Copyright Holder and seek
a different licensing arrangement.

Definitions

    "Copyright Holder" means the individual(s) or organization(s)
    named in the copyright notice for the entire Package.

    "Contributor" means any party that has contributed code or other
    material to the Package, in accordance with the Copyright Holder's
    procedures.

    "You" and "your" means any person who would like to copy,
    distribute, or modify the Package.

    "Package" means the collection of files distributed by the
    Copyright Holder, and derivatives of that collection and/or of
    those files. A given Package may consist of either the Standard
    Version, or a Modified Version.

    "Distribute" means providing a copy of the Package or making it
    accessible to anyone else, or in the case of a company or
    organization, to others outside of your company or organization.

    "Distributor Fee" means any fee that you charge for Distributing
    this Package or providing support for this Package to another
    party.  It does not mean licensing fees.

    "Standard Version" refers to the Package if it has not been
    modified, or has been modified only in ways explicitly requested
    by the Copyright Holder.

    "Modified Version" means the Package, if it has been changed, and
    such changes were not explicitly requested by the Copyright
    Holder.

    "Original License" means this Artistic License as Distributed with
    the Standard Version of the Package, in its current version or as
    it may be modified by The Perl Foundation in the future.

    "Source" form means the source code, documentation source, and
    configuration files for the Package.

    "Compiled" form means the compiled bytecode, object code, binary,
    or any other form resulting from mechanical transformation or
    translation of the Source form.

Permission for Use and Modification Without Distribution

(1)  You are permitted to use the Standard Version and create and use
Modified Versions for any purpose without restriction, provided that
you do not Distribute the Modified Version.

Permissions for Redistribution of the Standard Version
```

```
(2)  You may Distribute verbatim copies of the Source form of the
Standard Version of this Package in any medium without restriction,
either gratis or for a Distributor Fee, provided that you duplicate
all of the original copyright notices and associated disclaimers.  At
your discretion, such verbatim copies may or may not include a
Compiled form of the Package.

(3)  You may apply any bug fixes, portability changes, and other
modifications made available from the Copyright Holder.  The resulting
Package will still be considered the Standard Version, and as such
will be subject to the Original License.

Distribution of Modified Versions of the Package as Source

(4)  You may Distribute your Modified Version as Source (either gratis
or for a Distributor Fee, and with or without a Compiled form of the
Modified Version) provided that you clearly document how it differs
from the Standard Version, including, but not limited to, documenting
any non-standard features, executables, or modules, and provided that
you do at least ONE of the following:

    (a)  make the Modified Version available to the Copyright Holder
    of the Standard Version, under the Original License, so that the
    Copyright Holder may include your modifications in the Standard
    Version.

    (b)  ensure that installation of your Modified Version does not
    prevent the user installing or running the Standard Version. In
    addition, the Modified Version must bear a name that is different
    from the name of the Standard Version.

    (c)  allow anyone who receives a copy of the Modified Version to
    make the Source form of the Modified Version available to others
    under

        (i)  the Original License or

        (ii)  a license that permits the licensee to freely copy,
        modify and redistribute the Modified Version using the same
        licensing terms that apply to the copy that the licensee
        received, and requires that the Source form of the Modified
        Version, and of any works derived from it, be made freely
        available in that license fees are prohibited but Distributor
        Fees are allowed.

Distribution of Compiled Forms of the Standard Version
or Modified Versions without the Source

(5)  You may Distribute Compiled forms of the Standard Version without
the Source, provided that you include complete instructions on how to
get the Source of the Standard Version.  Such instructions must be
valid at the time of your distribution.  If these instructions, at any
time while you are carrying out such distribution, become invalid, you
must provide new instructions on demand or cease further distribution.
If you provide valid instructions or cease distribution within thirty
days after you become aware that the instructions are invalid, then
you do not forfeit any of your rights under this license.

(6)  You may Distribute a Modified Version in Compiled form without
the Source, provided that you comply with Section 4 with respect to
the Source of the Modified Version.

Aggregating or Linking the Package
```

```
    (7)  You may aggregate the Package (either the Standard Version or
    Modified Version) with other packages and Distribute the resulting
    aggregation provided that you do not charge a licensing fee for the
    Package.  Distributor Fees are permitted, and licensing fees for other
    components in the aggregation are permitted. The terms of this license
    apply to the use and Distribution of the Standard or Modified Versions
    as included in the aggregation.

    (8) You are permitted to link Modified and Standard Versions with
    other works, to embed the Package in a larger work of your own, or to
    build stand-alone binary or bytecode versions of applications that
    include the Package, and Distribute the result without restriction,
    provided the result does not expose a direct interface to the Package.

    Items That are Not Considered Part of a Modified Version

    (9) Works (including, but not limited to, modules and scripts) that
    merely extend or make use of the Package, do not, by themselves, cause
    the Package to be a Modified Version.  In addition, such works are not
    considered parts of the Package itself, and are not subject to the
    terms of this license.

    General Provisions

    (10)  Any use, modification, and distribution of the Standard or
    Modified Versions is governed by this Artistic License. By using,
    modifying or distributing the Package, you accept this license. Do not
    use, modify, or distribute the Package, if you do not accept this
    license.

    (11)  If your Modified Version has been derived from a Modified
    Version made by someone other than you, you are nevertheless required
    to ensure that your Modified Version complies with the requirements of
    this license.

    (12)  This license does not grant you the right to use any trademark,
    service mark, tradename, or logo of the Copyright Holder.

    (13)  This license includes the non-exclusive, worldwide,
    free-of-charge patent license to make, have made, use, offer to sell,
    sell, import and otherwise transfer the Package with respect to any
    patent claims licensable by the Copyright Holder that are necessarily
    infringed by the Package. If you institute patent litigation
    (including a cross-claim or counterclaim) against any party alleging
    that the Package constitutes direct or contributory patent
    infringement, then this Artistic License to you shall terminate on the
    date that such litigation is filed.

    (14)  Disclaimer of Warranty:
    THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS
    IS' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED
    WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
    NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL
    LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL
    BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL
    DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF
    ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

    --------
  """

- GYP, located at tools/gyp, is licensed as follows:
  """
```

```
    Copyright (c) 2020 Node.js contributors. All rights reserved.
    Copyright (c) 2009 Google Inc. All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

       * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
       * Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following disclaimer
    in the documentation and/or other materials provided with the
    distribution.
       * Neither the name of Google Inc. nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- inspector_protocol, located at tools/inspector_protocol, is licensed as
 follows:
  """
    // Copyright 2016 The Chromium Authors. All rights reserved.
    //
    // Redistribution and use in source and binary forms, with or without
    // modification, are permitted provided that the following conditions
 are
    // met:
    //
    //    * Redistributions of source code must retain the above copyright
    // notice, this list of conditions and the following disclaimer.
    //    * Redistributions in binary form must reproduce the above
    // copyright notice, this list of conditions and the following
 disclaimer
    // in the documentation and/or other materials provided with the
    // distribution.
    //    * Neither the name of Google Inc. nor the names of its
    // contributors may be used to endorse or promote products derived from
    // this software without specific prior written permission.
    //
    // THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    // "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    // LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    // A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    // OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    // SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    // LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    // DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    // THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    // (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    // OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """
```

```
- jinja2, located at tools/inspector_protocol/jinja2, is licensed as
 follows:
  """
    Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.

    Some rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

        * Redistributions of source code must retain the above copyright
          notice, this list of conditions and the following disclaimer.

        * Redistributions in binary form must reproduce the above
          copyright notice, this list of conditions and the following
          disclaimer in the documentation and/or other materials provided
          with the distribution.

        * The names of the contributors may not be used to endorse or
          promote products derived from this software without specific
          prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- markupsafe, located at tools/inspector_protocol/markupsafe, is licensed as
 follows:
  """
    Copyright (c) 2010 by Armin Ronacher and contributors.  See AUTHORS
    for more details.

    Some rights reserved.

    Redistribution and use in source and binary forms of the software as
 well
    as documentation, with or without modification, are permitted provided
    that the following conditions are met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

    THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
    CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
 BUT
```

```
    NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 OWNER
    OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
    DAMAGE.
  """

- cpplint.py, located at tools/cpplint.py, is licensed as follows:
  """
    Copyright (c) 2009 Google Inc. All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

       * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
       * Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following disclaimer
    in the documentation and/or other materials provided with the
    distribution.
       * Neither the name of Google Inc. nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- ESLint, located at tools/node_modules/eslint, is licensed as follows:
  """
    Copyright JS Foundation and other contributors, https://js.foundation

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.
```

```
    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.
  """

- Babel, located at tools/node_modules/@babel, is licensed as follows:
  """


    MIT License

    Copyright (c) 2014-present Sebastian McKenzie and other contributors

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, sublicense, and/or sell copies of the Software, and to
    permit persons to whom the Software is furnished to do so, subject to
    the following conditions:

    The above copyright notice and this permission notice shall be
    included in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
    EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
    LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
    OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
    WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  """

- gtest, located at test/cctest/gtest, is licensed as follows:
  """
    Copyright 2008, Google Inc.
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

        * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
        * Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following disclaimer
    in the documentation and/or other materials provided with the
    distribution.
        * Neither the name of Google Inc. nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- nghttp2, located at deps/nghttp2, is licensed as follows:
  """
    The MIT License

    Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
    Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, sublicense, and/or sell copies of the Software, and to
    permit persons to whom the Software is furnished to do so, subject to
    the following conditions:

    The above copyright notice and this permission notice shall be
    included in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
    EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
    LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
    OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
    WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

  """

- large_pages, located at src/large_pages, is licensed as follows:
  """
     Copyright (C) 2018 Intel Corporation

     Permission is hereby granted, free of charge, to any person obtaining a
 copy
     of this software and associated documentation files (the "Software"),
     to deal in the Software without restriction, including without
 limitation
     the rights to use, copy, modify, merge, publish, distribute,
 sublicense,
     and/or sell copies of the Software, and to permit persons to whom
     the Software is furnished to do so, subject to the following
 conditions:

     The above copyright notice and this permission notice shall be included
     in all copies or substantial portions of the Software.

     THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
     OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
     FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT
 SHALL
     THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
     OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE,
     ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE
```

```
     OR OTHER DEALINGS IN THE SOFTWARE.
  """

- caja, located at lib/internal/freeze_intrinsics.js, is licensed as
 follows:
  """
     Adapted from SES/Caja - Copyright (C) 2011 Google Inc.
     Copyright (C) 2018 Agoric

     Licensed under the Apache License, Version 2.0 (the "License");
     you may not use this file except in compliance with the License.
     You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

     Unless required by applicable law or agreed to in writing, software
     distributed under the License is distributed on an "AS IS" BASIS,
     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
     See the License for the specific language governing permissions and
     limitations under the License.
  """

- brotli, located at deps/brotli, is licensed as follows:
  """
    Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.
  """

- HdrHistogram, located at deps/histogram, is licensed as follows:
  """
    The code in this repository code was Written by Gil Tene, Michael
 Barker,
    and Matt Warren, and released to the public domain, as explained at
    http://creativecommons.org/publicdomain/zero/1.0/

    For users of this code who wish to consume it under the "BSD" license
    rather than under the public domain or CC0 contribution text mentioned
```

```
    above, the code found under this directory is *also* provided under the
    following license (commonly referred to as the BSD 2-Clause License).
 This
    license does not detract from the above stated release of the code into
    the public domain, and simply represents an additional license granted
 by
    the Author.


 ------------------------------------------------------------------------------
    ** Beginning of "BSD 2-Clause License" text. **

     Copyright (c) 2012, 2013, 2014 Gil Tene
     Copyright (c) 2014 Michael Barker
     Copyright (c) 2014 Matt Warren
     All rights reserved.

     Redistribution and use in source and binary forms, with or without
     modification, are permitted provided that the following conditions are
 met:

     1. Redistributions of source code must retain the above copyright
 notice,
        this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
 notice,
        this list of conditions and the following disclaimer in the
 documentation
        and/or other materials provided with the distribution.

     THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
     AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
     IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
     ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE
     LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
     CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
     SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
 BUSINESS
     INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
     CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
     ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
     THE POSSIBILITY OF SUCH DAMAGE.
  """

- highlight.js, located at doc/api_assets/highlight.pack.js, is licensed as
 follows:
  """
    BSD 3-Clause License

    Copyright (c) 2006, Ivan Sagalaev.
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
 met:

    * Redistributions of source code must retain the above copyright notice,
 this
      list of conditions and the following disclaimer.
```

```
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.

    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE
    DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR
    SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
    OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  """

- node-heapdump, located at src/heap_utils.cc, is licensed as follows:
  """
    ISC License

    Copyright (c) 2012, Ben Noordhuis <info@bnoordhuis.nl>

    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
    OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

    === src/compat.h src/compat-inl.h ===

    ISC License

    Copyright (c) 2014, StrongLoop Inc.

    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
```

```
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
    OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
  """

- rimraf, located at lib/internal/fs/rimraf.js, is licensed as follows:
  """
    The ISC License

    Copyright (c) Isaac Z. Schlueter and Contributors

    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
 OR
    IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
  """

- uvwasi, located at deps/uvwasi, is licensed as follows:
  """
    MIT License

    Copyright (c) 2019 Colin Ihrig and Contributors

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE.
  """
```

Provider: NTT (Nippon Telegraph and Telephone Corporation) / Component(s): GoBGP 1.33

```
osrg/gobgp
```

Copyright (C) 2015 Nippon Telegraph and Telephone Corporation.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright
owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."


      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.


   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.


   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.


   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:


      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and


      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and


      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
            excluding those notices that do not pertain to any part of
            the Derivative Works; and


        (d) If the Work includes a "NOTICE" text file as part of its
            distribution, then any Derivative Works that You distribute must
            include a readable copy of the attribution notices contained
            within such NOTICE file, excluding those notices that do not
            pertain to any part of the Derivative Works, in at least one
            of the following places: within a NOTICE text file distributed
            as part of the Derivative Works; within the Source form or
            documentation, if provided along with the Derivative Works; or,
            within a display generated by the Derivative Works, if and
            wherever such third-party notices normally appear. The contents
            of the NOTICE file are for informational purposes only and
            do not modify the License. You may add Your own attribution
            notices within Derivative Works that You distribute, alongside
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.


        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.


    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.


    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.


    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this
License.


    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
```

```
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.


    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.


    END OF TERMS AND CONDITIONS


    APPENDIX: How to apply the Apache License to your work.


       To apply the Apache License to your work, attach the following
       boilerplate notice, with the fields enclosed by brackets "{}"
       replaced with your own identifying information. (Don't include
       the brackets!)  The text should be enclosed in the appropriate
       comment syntax for the file format. We also recommend that a
       file or class name and description of purpose be included on the
       same "printed page" as the copyright notice for easier
       identification within third-party archives.


    Copyright {yyyy} {name of copyright owner}


    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at


        http://www.apache.org/licenses/LICENSE-2.0


    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.


==============================================

armon/go-radix 1fca145dffbcaa8fe914309b1ec0cfc67500fe61

The MIT License (MIT)


 Copyright (c) 2014 Armon Dadgar


 Permission is hereby granted, free of charge, to any person obtaining a
 copy of
```

```
 this software and associated documentation files (the "Software"), to deal
 in
 the Software without restriction, including without limitation the rights
 to
 use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
 the Software, and to permit persons to whom the Software is furnished to do
 so,
 subject to the following conditions:


 The above copyright notice and this permission notice shall be included in
 all
 copies or substantial portions of the Software.


 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
 FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
 COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
 IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


__________________

eapache/channels 1.1.0

The MIT License (MIT)


 Copyright (c) 2013 Evan Huus


 Permission is hereby granted, free of charge, to any person obtaining a
 copy of
 this software and associated documentation files (the "Software"), to deal
 in
 the Software without restriction, including without limitation the rights
 to
 use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
 the Software, and to permit persons to whom the Software is furnished to do
 so,
 subject to the following conditions:


 The above copyright notice and this permission notice shall be included in
 all
 copies or substantial portions of the Software.


 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
 FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
 COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
 IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
____________________

eapache/queue 1.0.2

The MIT License (MIT)


 Copyright (c) 2014 Evan Huus


 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:


 The above copyright notice and this permission notice shall be included in
 all
 copies or substantial portions of the Software.


 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
 SOFTWARE.


____________________________

spf13/cobra. b26b538f693051ac6518e65672de3144ce3fbedc

    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/


    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION


    1. Definitions.


       "License" shall mean the terms and conditions for use, reproduction,
       and distribution as defined by Sections 1 through 9 of this document.


       "Licensor" shall mean the copyright owner or entity authorized by
       the copyright owner that is granting the License.


       "Legal Entity" shall mean the union of the acting entity and all
       other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.


      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.


      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.


      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.


      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).


      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other
modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces
of,
      the Work and Derivative Works thereof.


      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright
owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."


      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.


   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.


   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.


   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:


      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and


      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and


      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and


      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.


      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
```

```
       for use, reproduction, or distribution of Your modifications, or
       for any such Derivative Works as a whole, provided Your use,
       reproduction, and distribution of the Work otherwise complies with
       the conditions stated in this License.


    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.


    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.


    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this
 License.


    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.


    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.


_____


spf13/viper 25b30aa063fc18e48662b86996252eabdcf2f0c7

The MIT License (MIT)
```

Copyright (c) 2014 Steve Francia

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

BurntSushi/toml 0.3.0

The MIT License (MIT)

Copyright (c) 2013 TOML authors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN

```
 THE SOFTWARE.



_____________________________________

fsnotify/fsnotify 1.4.2

BSD 3-Clause "New" or "Revised" License

Copyright (c) 2012 The Go Authors. All rights reserved.
 Copyright (c) 2012 fsnotify Authors. All rights reserved.


 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are
 met:


    * Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
 copyright notice, this list of conditions and the following disclaimer
 in the documentation and/or other materials provided with the
 distribution.
    * Neither the name of Google Inc. nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.


 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
 A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


_________________________________________

hashicorp/hcl 392dba7d905ed5d04a5794ba89f558b27e2ba1ca

Mozilla Public License, version 2.0


 1. Definitions


 1.1. “Contributor”


      means each individual or legal entity that creates, contributes to the
      creation of, or owns Covered Software.


 1.2. “Contributor Version”
```

```
     means the combination of the Contributions of others (if any) used by
a
     Contributor and that particular Contributor’s Contribution.


1.3. “Contribution”


     means Covered Software of a particular Contributor.


1.4. “Covered Software”


     means Source Code Form to which the initial Contributor has attached
the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including
portions
     thereof.


1.5. “Incompatible With Secondary Licenses”
     means


     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or


     b. that the Covered Software was made available under the terms of
version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.


1.6. “Executable Form”


     means any form of the work other than Source Code Form.


1.7. “Larger Work”


     means a work that combines Covered Software with other material, in a
separate
     file or files, that is not Covered Software.


1.8. “License”


     means this document.


1.9. “Licensable”


     means having the right to grant, to the maximum extent possible,
whether at the
     time of the initial grant or subsequently, any and all of the rights
conveyed by
     this License.
```

```
1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered
Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
process,
      and apparatus claims, in any patent Licensable by such Contributor
that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer
of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
is
      controlled by, or is under common control with You. For purposes of
this
      definition, “control” means (a) the power, direct or indirect, to
cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.



2. License Grants and Conditions
```

```
2.1. Grants


     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:


     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications,
or as
        part of a Larger Work; and


     b. under Patent Claims of such Contributor to make, use, sell, offer
for
        sale, have made, import, and otherwise transfer either its
Contributions
        or its Contributor Version.


2.2. Effective Date


     The licenses granted in Section 2.1 with respect to any Contribution
become
     effective for each Contribution on the date the Contributor first
distributes
     such Contribution.


2.3. Limitations on Grant Scope


     The licenses granted in this Section 2 are the only rights granted
under this
     License. No additional rights or licenses will be implied from the
distribution
     or licensing of Covered Software under this License. Notwithstanding
Section
     2.1(b) above, no patent license is granted by a Contributor:


     a. for any code that a Contributor has removed from Covered Software;
or


     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its
Contributor
        Version); or


     c. under Patent Claims infringed by Covered Software in the absence of
its
        Contributions.


     This License does not grant any rights in the trademarks, service
marks, or
```

```
     logos of any Contributor (except as may be necessary to comply with
the
     notice requirements in Section 3.4).


2.4. Subsequent Licenses


     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
License
     (see Section 10.2) or under the terms of a Secondary License (if
permitted
     under the terms of Section 3.3).


2.5. Representation


     Each Contributor represents that the Contributor believes its
Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.


2.6. Fair Use


     This License is not intended to limit any rights You have under
applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.


2.7. Conditions


     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in
     Section 2.1.




3. Responsibilities


3.1. Distribution of Source Form


     All distribution of Covered Software in Source Code Form, including
any
     Modifications that You create or to which You contribute, must be
under the
     terms of this License. You must inform recipients that the Source Code
Form
     of the Covered Software is governed by the terms of this License, and
how
     they can obtain a copy of this License. You may not attempt to alter
or
     restrict the recipients’ rights in the Source Code Form.


3.2. Distribution of Executable Form
```

```
     If You distribute Covered Software in Executable Form then:


     a. such Covered Software must also be made available in Source Code
Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
by
        reasonable means in a timely manner, at a charge no more than the
cost
        of distribution to the recipient; and


     b. You may distribute such Executable Form under the terms of this
License,
        or sublicense it under different terms, provided that the license
for
        the Executable Form does not attempt to limit or alter the
recipients'
        rights in the Source Code Form under this License.


3.3. Distribution of a Larger Work


     You may create and distribute a Larger Work under terms of Your
choice,
     provided that You also comply with the requirements of this License
for the
     Covered Software. If the Larger Work is a combination of Covered
Software
     with a work governed by one or more Secondary Licenses, and the
Covered
     Software is not Incompatible With Secondary Licenses, this License
permits
     You to additionally distribute such Covered Software under the terms
of
     such Secondary License(s), so that the recipient of the Larger Work
may, at
     their option, further distribute the Covered Software under the terms
of
     either this License or such Secondary License(s).


3.4. Notices


     You may not remove or alter the substance of any license notices
(including
     copyright notices, patent notices, disclaimers of warranty, or
limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.


3.5. Application of Additional Terms


     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of
Covered
```

```
      Software. However, You may do so only on Your own behalf, and not on
 behalf
      of any Contributor. You must make it absolutely clear that any such
      warranty, support, indemnity, or liability obligation is offered by
 You
      alone, and You hereby agree to indemnify every Contributor for any
      liability incurred by such Contributor as a result of warranty,
 support,
      indemnity or liability terms You offer. You may include additional
      disclaimers of warranty and limitations of liability specific to any
      jurisdiction.


 4. Inability to Comply Due to Statute or Regulation


    If it is impossible for You to comply with any of the terms of this
 License
    with respect to some or all of the Covered Software due to statute,
 judicial
    order, or regulation then You must: (a) comply with the terms of this
 License
    to the maximum extent possible; and (b) describe the limitations and the
 code
    they affect. Such description must be placed in a text file included
 with all
    distributions of the Covered Software under this License. Except to the
    extent prohibited by statute or regulation, such description must be
    sufficiently detailed for a recipient of ordinary skill to be able to
    understand it.


 5. Termination


 5.1. The rights granted under this License will terminate automatically if
 You
      fail to comply with any of its terms. However, if You become
 compliant,
      then the rights granted under this License from a particular
 Contributor
      are reinstated (a) provisionally, unless and until such Contributor
      explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
      if such Contributor fails to notify You of the non-compliance by some
      reasonable means prior to 60 days after You have come back into
 compliance.
      Moreover, Your grants from a particular Contributor are reinstated on
 an
      ongoing basis if such Contributor notifies You of the non-compliance
 by
      some reasonable means, this is the first time You have received notice
 of
      non-compliance with this License from such Contributor, and You become
      compliant prior to 30 days after Your receipt of the notice.


 5.2. If You initiate litigation against any entity by asserting a patent
      infringement claim (excluding declaratory judgment actions, counter-
claims,
      and cross-claims) alleging that a Contributor Version directly or
      indirectly infringes any patent, then the rights granted to You by any
 and
```

```
     all Contributors for the Covered Software under Section 2.1 of this
License
     shall terminate.


5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
user
     license agreements (excluding distributors and resellers) which have
been
     validly granted by You or Your distributors under this License prior
to
     termination shall survive termination.


6. Disclaimer of Warranty


   Covered Software is provided under this License on an “as is” basis,
without
   warranty of any kind, either expressed, implied, or statutory,
including,
   without limitation, warranties that the Covered Software is free of
defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
this
   License. No use of  any Covered Software is authorized under this
License
   except under this disclaimer.


7. Limitation of Liability


   Under no circumstances and under no legal theory, whether tort
(including
   negligence), contract, or otherwise, shall any Contributor, or anyone
who
   distributes Covered Software as permitted above, be liable to You for
any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of
liability
   shall not apply to liability for death or personal injury resulting from
such
   party’s negligence to the extent applicable law prohibits such
limitation.
   Some jurisdictions do not allow the exclusion or limitation of
incidental or
   consequential damages, so this exclusion and limitation may not apply to
You.


8. Litigation
```

```
   Any litigation relating to this License may be brought only in the
courts of
   a jurisdiction where the defendant maintains its principal place of
business
   and such litigation shall be governed by laws of that jurisdiction,
without
   reference to its conflict-of-law provisions. Nothing in this Section
shall
   prevent a party’s ability to bring cross-claims or counter-claims.


9. Miscellaneous


   This License represents the complete agreement concerning the subject
matter
   hereof. If any provision of this License is held to be unenforceable,
such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
construe
   this License against a Contributor.




10. Versions of the License


10.1. New Versions


      Mozilla Foundation is the license steward. Except as provided in
Section
      10.3, no one other than the license steward has the right to modify
or
      publish new versions of this License. Each version will be given a
      distinguishing version number.


10.2. Effect of New Versions


      You may distribute the Covered Software under the terms of the
version of
      the License under which You originally received the Covered Software,
or
      under the terms of any subsequent version published by the license
      steward.


10.3. Modified Versions


      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
such
      modified license differs from this License).
```

```
 10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
       If You choose to distribute Source Code Form that is Incompatible
 With
       Secondary Licenses under the terms of this version of the License,
 the
       notice described in Exhibit B of this License must be attached.


 Exhibit A - Source Code Form License Notice


       This Source Code Form is subject to the
       terms of the Mozilla Public License, v.
       2.0. If a copy of the MPL was not
       distributed with this file, You can
       obtain one at
       http://mozilla.org/MPL/2.0/.


 If it is not possible or desirable to put the notice in a particular file,
 then
 You may include the notice in a location (such as a LICENSE file in a
 relevant
 directory) where a recipient would be likely to look for such a notice.


 You may add additional accurate notices of copyright ownership.


 Exhibit B - “Incompatible With Secondary Licenses” Notice


       This Source Code Form is “Incompatible
       With Secondary Licenses”, as defined by
       the Mozilla Public License, v. 2.0.


_____________________


jessevdk/go-flags 1.3.0

BSD 3-Clause "New" or "Revised" License

Copyright (c) 2012 Jesse van den Kieboom. All rights reserved.
 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are
 met:


    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following disclaimer
      in the documentation and/or other materials provided with the
      distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.


 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
 A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


____________________

kr/pretty cfb55aafdaf3ec08f0db22699ab822c50091b1c4

The MIT License (MIT)


 Copyright 2012 Keith Rarick


 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:


 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.


 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.


____________

magiconair/properties 1.7.3

goproperties - properties file decoder for Go


 Copyright (c) 2013-2018 - Frank Schroeder


 All rights reserved.


 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:


 1. Redistributions of source code must retain the above copyright notice,
 this
```

```
    list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.


 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


_________________

mitchellh/mapstructure d0303fe809921458f417bcf828397a65db30a7e4

The MIT License (MIT)


 Copyright (c) 2013 Mitchell Hashimoto


 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:


 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.


 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.


_________________

satori/go.uuid 36e9d2ebbde5e3f13ab2e25625fd453271d6522e
```

Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

socketplane/libovsdb

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

```
      including but not limited to software source code, documentation
      source, and configuration files.


      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.


      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).


      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other
modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces
of,
      the Work and Derivative Works thereof.


      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright
owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."


      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.


   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.


   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.


   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:


      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and


      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and


      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and


      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.


      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.


   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this
License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}
```

```
    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at


        http://www.apache.org/licenses/LICENSE-2.0


    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.

-----------------------------------------------------------------------


golang/protobuf

BSD 3-Clause "New" or "Revised" License

Copyright 2010 The Go Authors.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------

spf13/pflag

BSD 3-Clause "New" or "Revised" License

Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
```

```
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------


tomb.v2

BSD 3-Clause "New" or "Revised" License

tomb - support for clean goroutine termination in Go.

Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------


x/net
```

```
BSD 3-Clause "New" or "Revised" License

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------

x/sys

BSD 3-Clause "New" or "Revised" License

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
---------------------------------------------------------------------

x/tools

BSD 3-Clause "New" or "Revised" License

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------------------

x/text

BSD 3-Clause "New" or "Revised" License

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------

pelletier/go-buffruneio

The MIT License (MIT)

Copyright (c) 2016 - 2018 Thomas Pelletier

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------

spf13/cast

The MIT License (MIT)

Copyright (c) 2014 Steve Francia

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------------------------------------------------

spf13/jwalterweatherman
```

```
The MIT License (MIT)

Copyright (c) 2014 Steve Francia

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------


kr/text

The MIT License

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------



influxdata/influxdb

The MIT License (MIT)
```

```
Copyright (c) 2013-2016 Errplane Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------

stretchr/testify

The MIT License (MIT)

Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell

Please consider promoting this project if you find it useful.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------------------------------------------------

pelletier/go-toml

The MIT License (MIT)

Copyright (c) 2013 - 2017 Thomas Pelletier, Eric Anderton
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------------------------------------------------------

vishvananda/netlink

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2014 Vishvananda Ishaya.
   Copyright 2014 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   ------------------------------------------------------------------------

   vishvananda/netns

   Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
```

```
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2014 Vishvananda Ishaya.
   Copyright 2014 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
   ---------------------------------------------------------------------------

   spf13/afero

   Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
```

```
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
```

```
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   ---------------------------------------------------------------------

grpc

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   ---------------------------------------------------------------------------

jaml.v2

Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
```

```
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
```

```
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


   ---------------------------------

go-spew            v1.1.0

ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
```

```
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


-----------------------------

go-farm

As this is a highly derivative work, I have placed it under the same license
 as the original implementation:

Copyright (c) 2014-2017 Damian Gryski
Copyright (c) 2016-2017 Nicola Asuni - Tecnick.com

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


----------------------

Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
    The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------

genproto

Copyright 2016 Google Inc.

Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
```

```
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
```

```
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   ----------


   mousetrap

   Copyright 2014 Alan Shreve

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

   Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
```

```
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
```

```
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
```

```
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

--------------
```

Provider: NumPy Developers / Component(s): Numpy 1.19.5

```
************************************************************
********* Copied from LT Public License & Copyright Notices *********

Numpy:1.19.5
Copyright (c) 2005-2020, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
== 4th party
____________________________
Dragon4:152435d619
/*
 * Copyright (c) 2014 Ryan Juckett
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 copy
 * of this software and associated documentation files (the "Software"), to
 * deal in the Software without restriction, including without limitation
 the
 * rights to use, copy, modify, merge, publish, distribute, sublicense, and/
or
```

```
 * sell copies of the Software, and to permit persons to whom the Software
 is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
 * IN THE SOFTWARE.
 */
/*
 * This file contains a modified version of Ryan Juckett's Dragon4
 * implementation, obtained from http://www.ryanjuckett.com,
 * which has been ported from C++ to C and which has
 * modifications specific to printing floats in numpy.
 *
 * Ryan Juckett's original code was under the Zlib license; he gave numpy
 * permission to include it under the MIT license instead.
 */
_____________________________
Lapack-lite:3.1.1
Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        Reserved.
Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.
$COPYRIGHT$
Additional copyrights may follow
$HEADER$
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.
- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
```

```
intellectual property rights.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
____________________________
Numpydoc:a482f66913
Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli
 Virtanen <pav@iki.fi>


Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
____________________________
Scipy-sphinx-theme:f0d96ae2bf
Copyright (c) 2011  Kevin Dunn, Surya K, Pauli Virtanen, the Sphinx team
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of the author nor the names of other
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Exceptions:
_theme/scipy/static/copybutton.js
    Originates from Python; Doc/tools/sphinxext/static/copybutton.js
    1. This LICENSE AGREEMENT is between the Python Software Foundation
    ("PSF"), and the Individual or Organization ("Licensee") accessing and
    otherwise using this software ("Python") in source or binary form and
    its associated documentation.
    2. Subject to the terms and conditions of this License Agreement, PSF
 hereby


    grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,


    analyze, test, perform and/or display publicly, prepare derivative
 works,
    distribute, and otherwise use Python alone or in any derivative version,
    provided, however, that PSF's License Agreement and PSF's notice of
 copyright,


    i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008,
 2009, 2010,


    2011, 2012, 2013 Python Software Foundation; All Rights Reserved" are
 retained


    in Python alone or in any derivative version prepared by Licensee.
    3. In the event Licensee prepares a derivative work that is based on
    or incorporates Python or any part thereof, and wants to make
    the derivative work available to others as provided herein, then
    Licensee hereby agrees to include in any such work a brief summary of
    the changes made to Python.
    4. PSF is making Python available to Licensee on an "AS IS"
    basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
    IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
    DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
    FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
    INFRINGE ANY THIRD PARTY RIGHTS.
    5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
    FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
    A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
    OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
    6. This License Agreement will automatically terminate upon a material
    breach of its terms and conditions.
    7. Nothing in this License Agreement shall be deemed to create any
    relationship of agency, partnership, or joint venture between PSF and
    Licensee.  This License Agreement does not grant permission to use PSF
    trademarks or trade name in a trademark sense to endorse or promote
    products or services of Licensee, or any third party.
    8. By copying, installing or otherwise using Python, Licensee
    agrees to be bound by the terms and conditions of this License
    Agreement.
_theme/scipy/static/less/bootstrap/*,
_theme/scipy/static/img/glyphicons-*,
_theme/scipy/static/css/spc-bootstrap.css
    Twitter Bootstrap v2.3.1 (and generated output CSS files)
    Copyright 2012 Twitter, Inc
    Licensed under the Apache License v2.0
    http://www.apache.org/licenses/LICENSE-2.0
```

```
____________________________
Tempita:0.5.2
Copyright (c) 2008 Ian Bicking and Contributors
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
____________________________
Blas:3.4.2
Copyright (c) 1992-2011 The University of Tennessee and The University of
 Tennessee

Research Foundation.  All rights reserved.
Copyright (c) 2000-2011 The University of California Berkeley. All rights
 reserved.


Copyright (c) 2006-2012 The University of Colorado Denver.  All rights
 reserved.


Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.
- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
____________________________
Libgfortran: 5-8.3.1 (library license under GPLv3 with RUNTIME EXCEPTION)
```

```
---
COPYING
                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007
 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.
                            Preamble
  The GNU General Public License is a free, copyleft license for
software and other kinds of works.
  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.
  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.
  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.
  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.
  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.
  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.
  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.
  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.
  The precise terms and conditions for copying, distribution and
modification follow.
                       TERMS AND CONDITIONS
  0. Definitions.
  "This License" refers to version 3 of the GNU General Public License.
  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.
```

```
  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.
  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.
  A "covered work" means either the unmodified Program or a work based
on the Program.
  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.
  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.
  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.
  1. Source Code.
  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.
  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.
  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.
  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.
  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.
  The Corresponding Source for a work in source code form is that
same work.
  2. Basic Permissions.
  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
```

```
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.
  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.
  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.
  3. Protecting Users' Legal Rights From Anti-Circumvention Law.
  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.
  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.
  4. Conveying Verbatim Copies.
  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.
  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.
  5. Conveying Modified Source Versions.
  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:
    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.
    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".
    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.
    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.
  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
```

```
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.
  6. Conveying Non-Source Forms.
  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:
    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.
    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.
    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.
    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.
    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.
  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.
  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.
  "Installation Information" for a User Product means any methods,
```

```
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.
  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).
  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.
  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.
  7. Additional Terms.
  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.
  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.
  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:
    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or
    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or
    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or
    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or
    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or
    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.
  All other non-permissive additional terms are considered "further
```

```
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.
  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.
  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.
  8. Termination.
  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).
  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.
  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.
  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.
  9. Acceptance Not Required for Having Copies.
  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.
  10. Automatic Licensing of Downstream Recipients.
  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.
  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.
  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
```

rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

```
  12. No Surrender of Others' Freedom.
  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.
  13. Use with the GNU Affero General Public License.
  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.
  14. Revised Versions of this License.
  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.
  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.
  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.
  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.
  15. Disclaimer of Warranty.
  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
  16. Limitation of Liability.
  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.
  17. Interpretation of Sections 15 and 16.
  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
```

```
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.
                      END OF TERMS AND CONDITIONS
            How to Apply These Terms to Your New Programs
  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.
  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.
    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>
    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.
    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.
    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.
Also add information on how to contact you by electronic and paper mail.
  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:
    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.
The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".
  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.
  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
---
COPYING.RUNTIME
GCC RUNTIME LIBRARY EXCEPTION
Version 3.1, 31 March 2009
Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.
When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.
0. Definitions.
A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
```

```
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.
"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.
"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.
"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.
The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.
A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.
1. Grant of Additional Permission.
You have permission to propagate a work of Target Code formed by
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.
2. No Weakening of GCC Copyleft.
The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.
== Additional copyright notices under the above GPL v3 and GCC Runtime
 Library Exception

license
Copyright (C) 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003,
 2004, 2005,

2006, 2007, 2008, 2009, 2010, 2011 Free Software Foundation, Inc.
Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005,
 2006, 2007,

2008, 2009, 2010, 2011 Free Software Foundation, Inc.
Copyright (C) 2002, 2003, 2005, 2006, 2007, 2008, 2011 Free Software
 Foundation,

Inc.
Copyright (C) 1997, 2000, 2001, 2003, 2004, 2005, 2006, 2008 Free Software
 Foundation,

Inc.
Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2009, 2010,
 2011 Free

Software Foundation, Inc.
Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2008 Free Software
```

```
Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005,
 2006, 2008,

2009 Free Software Foundation, Inc.
Copyright (C) 2001, 2003, 2005, 2008, 2011 Free Software Foundation, Inc.
Copyright (C) 1996, 1998, 2000, 2001, 2002, 2003, 2004, 2005, 2008, 2011
 Free Software

Foundation, Inc.
Copyright (C) 1999, 2000, 2001, 2003, 2004, 2005, 2008 Free Software
 Foundation,

Inc.
Copyright (C) 1997, 1999, 2000, 2001, 2003, 2004, 2005, 200 Free Software
 Foundation,

Inc.
Copyright (C) 2003, 2004, 2005, 2006, 2011 Free Software Foundation, Inc.
Copyright (C) 2001, 2002, 2003, 2005, 2008, 2010 Free Software Foundation,
 Inc.
Copyright (C) 1996, 1997, 2000, 2001, 2003, 2005, 2008 Free Software
 Foundation,

Inc.
Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2005, 2006,
 2007, 2008,

2009 Free Software Foundation, Inc.
Copyright (C) 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2002,
 2003, 2004,

2005, 2006, 2007, 2008, 2009 Free Software Foundation, Inc.
Copyright (C) 2001, 2002, 2003, 2005, 2009  Free Software Foundation, Inc
Copyright (C) 2001, 2003, 2005, 2011 Free Software Foundation, Inc
Copyright (C) 2002 Free Software Foundation, Inc
Copyright (C) 2002-2018 Free Software Foundation, Inc
Copyright (C) 2003 Free Software Foundation, Inc
Copyright (C) 2003-2018 Free Software Foundation, Inc
Copyright (C) 2004 Free Software Foundation, Inc
Copyright (C) 2004, 2005, 2012 Free Software Foundation, Inc
Copyright (C) 2004-2018 Free Software Foundation, Inc
Copyright (C) 2005 Free Software Foundation, Inc
Copyright (C) 2005-2018 Free Software Foundation, Inc
Copyright (C) 2006 Free Software Foundation, Inc
Copyright (C) 2006, 2008, 2010 Free Software Foundation, Inc
Copyright (C) 2006-2018 Free Software Foundation, Inc
Copyright (C) 2007 Free Software Foundation, Inc
Copyright (C) 2007-2018 Free Software Foundation, Inc
Copyright (C) 2008 Free Software Foundation, Inc
Copyright (C) 2008-2018 Free Software Foundation, Inc
Copyright (C) 2009 Free Software Foundation, Inc
Copyright (C) 2009-2018 Free Software Foundation, Inc
Copyright (C) 2010 Free Software Foundation, Inc
Copyright (C) 2010-2018 Free Software Foundation, Inc
Copyright (C) 2011 Free Software Foundation, Inc
Copyright (C) 2011-2018 Free Software Foundation, Inc
Copyright (C) 2012 Free Software Foundation, Inc
Copyright (C) 2013-2014 Free Software Foundation, Inc
Copyright (C) 2013-2018 Free Software Foundation, Inc
Copyright (C) 2014 Free Software Foundation, Inc
Copyright (C) 2015 Free Software Foundation, Inc
Copyright (C) 2016 Free Software Foundation, Inc
Copyright (C) 2017 Free Software Foundation, Inc
Copyright (C) 2017-2018 Free Software Foundation, Inc
```

```
Copyright (C) 2018 Free Software Foundation, Inc
_____________________________
libgfortran: 4.8.5 (library license under GPLv3 with RUNTIME EXCEPTION)
License same as libgfortran: 5-8.3.1
== Additional copyright notices under the above GPL v3 and GCC Runtime
 Library Exception

license
Copyright (C) 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2002, 2003,
 2004, 2005,

2006, 2007, 2008, 2009 Free Software Foundation, Inc.
Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2006, 2007,
 2008, 2009

Free Software Foundation, Inc.
Copyright (C) 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003,
 2004, 2005,

2006, 2007, 2008, 2009, 2010, 2011 Free Software Foundation, Inc.
Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005,
 2006, 2007,

2008, 2009, 2010, 2011 Free Software Foundation, Inc.
Copyright (C) 1997, 2000, 2001, 2003, 2004, 2005, 2006, 2008 Free Software
 Foundation,

Inc.
Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2009, 2010,
 2011 Free

Software Foundation, Inc.
Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2008 Free Software
 Foundation,

Inc.
Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005,
 2006, 2008,

2009 Free Software Foundation, Inc.
Copyright (C) 2001, 2003, 2005, 2008, 2011 Free Software Foundation, Inc.
Copyright (C) 1996, 1998, 2000, 2001, 2002, 2003, 2004, 2005, 2008, 2011
 Free Software

Foundation, Inc.
Copyright (C) 1999, 2000, 2001, 2003, 2004, 2005, 2008 Free Software
 Foundation,

Inc.
Copyright (C) 1997, 1999, 2000, 2001, 2003, 2004, 2005, 2008 Free Software
 Foundation,

Inc.
Copyright (C) 2001, 2002, 2003, 2005, 2008, 2010 Free Software Foundation,
 Inc.
Copyright (C) 2001, 2002, 2003, 2005, 2009  Free Software Foundation, Inc.
Copyright (C) 2001, 2003, 2005, 2008, 2011 Free Software Foundation,
Copyright (C) 2001, 2003, 2005, 2011 Free Software Foundation, Inc.
Copyright (C) 2002 Free Software Foundation, Inc.
Copyright (C) 2002, 2003, 2005, 2006, 2007, 2008, 2011 Free Software
 Foundation,

Inc.
Copyright (C) 2002-2013 Free Software Foundation, Inc.
```

```
Copyright (C) 2003 Free Software Foundation, Inc.
Copyright (C) 2003, 2004, 2005, 2006, 2011 Free Software Foundation,
Copyright (C) 2003-2013 Free Software Foundation, Inc.
Copyright (C) 2004 Free Software Foundation, Inc.
Copyright (C) 2004, 2005, 2012 Free Software Foundation, Inc.
Copyright (C) 2004-2013 Free Software Foundation, Inc.
Copyright (C) 2005 Free Software Foundation, Inc.
Copyright (C) 2005-2013 Free Software Foundation, Inc.
Copyright (C) 2006 Free Software Foundation, Inc.
Copyright (C) 2006, 2008, 2010 Free Software Foundation, Inc.
Copyright (C) 2006-2013 Free Software Foundation, Inc.
Copyright (C) 2007 Free Software Foundation, Inc.
Copyright (C) 2007-2013 Free Software Foundation, Inc.
Copyright (C) 2008 Free Software Foundation, Inc.
Copyright (C) 2008-2013 Free Software Foundation, Inc.
Copyright (C) 2009 Free Software Foundation, Inc.
Copyright (C) 2009-2013 Free Software Foundation, Inc.
Copyright (C) 2010 Free Software Foundation, Inc.
Copyright (C) 2010-2013 Free Software Foundation, Inc.
Copyright (C) 2011 Free Software Foundation, Inc.
Copyright (C) 2011-2013 Free Software Foundation, Inc.
Copyright (C) 2012 Free Software Foundation, Inc.
Copyright (C) 2013 Free Software Foundation, Inc.
_____________________________
libquadmath 4.8.5
    GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999
 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.
[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]
       Preamble
  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.
  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.
  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.
  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.
  We protect your rights with a two-step method: (1) we copyright the
```

```
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.
  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.
  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.
  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.
  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.
  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.
  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.
  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.
  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
```

```
Each licensee is addressed as "you".
  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.
  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)
  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.
  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.
  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:
    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.
    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)
These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
```

```
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.
  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.
  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.
  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.
  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
```

```
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:
    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)
    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.
    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.
    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.
  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:
    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.
    b) Give prominent notice with the combined library of the fact
```

```
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.
  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.
  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.
  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.
  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number.  If the Library
```

```
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.
       NO WARRANTY
  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
       END OF TERMS AND CONDITIONS
== Additional copyright notices under the above LGPL v2.1 license
 Copyright (C) 1991, 1992, 1993, 1994, 1996 Free Software Foundation, Inc.
 Copyright (C) 1991, 1993, 1994, 1995, 1996, 2011 Free Software Foundation,
 Inc.


 Copyright (C) 1991, 1993, 1994, 1996 Free Software Foundation, Inc.
 Copyright (C) 1991, 1999 Free Software Foundation, Inc. 51 Franklin Street,
 Fifth

Floor, Boston, MA 02110-1301 USA
 Copyright (C) 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001,  2002,
 2003,

2004, 2005, 2006, 2007, 2008, 2009 Free Software
 Copyright (C) 1992, 1993, 1994, 1996 Free Software Foundation, Inc.
 Copyright (C) 1992, 1993, 1994, 1996, 2005 Free Software Foundation, Inc.
 Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved. *
 Copyright (C) 1993, 1994, 1995, 1996 Free Software Foundation, Inc.
 Copyright (C) 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002,  2003,
 2004,

2005, 2006, 2007, 2008, 2009 Free Software Foundation,
 Copyright (C) 1994,95,96,97,98,99,2002,2003 Free Software Foundation, Inc.
 This

file is part of the GNU C Library.
```

```
 Copyright (C) 1994-1999,2002,2003,2007 Free Software Foundation, Inc. This
 file

is part of the GNU C Library.
 Copyright (C) 1995, 1996, 1997, 1998, 1999, 2002, 2003 Free Software
 Foundation,

Inc.
 Copyright (C) 1995,1996,1997,1998,1999,2002,2003 Free Software Foundation,
 Inc.


 Copyright (C) 1995,1996,1997,1998,2000,2003 Free Software Foundation, Inc.
 This

file is part of the GNU C Library.
 Copyright (C) 1995-2012 Free Software Foundation, Inc.
 Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004,  2005,
 2006,

2007, 2008, 2009 Free Software Foundation, Inc.
 Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004,  2005,
 2006,

2008, 2009 Free Software Foundation, Inc.
 Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2005,  2006,
 2007,

2008, 2009 Free Software Foundation, Inc.
 Copyright (C) 1996, 1997, 2000, 2001, 2003, 2005, 2008  Free Software
 Foundation,

Inc.
 Copyright (C) 1996, 1998, 2000, 2001, 2002, 2003, 2004, 2005, 2008  Free
 Software

Foundation, Inc.
 Copyright (C) 1997 Free Software Foundation, Inc. This file is part of the
 GNU C

Library.
 Copyright (C) 1997, 1998 Free Software Foundation, Inc. This file is part
 of the

GNU C Library.
 Copyright (C) 1997, 1998, 2006 Free Software Foundation, Inc. This file is
 part

of the GNU C Library.
 Copyright (C) 1997, 1999 Free Software Foundation, Inc. This file is part
 of the

GNU C Library.
 Copyright (C) 1997, 1999, 2000, 2001, 2003, 2004, 2005, 2008  Free Software
 Foundation,

Inc.
 Copyright (C) 1997, 1999, 2002 Free Software Foundation, Inc. This file is
 part

of the GNU C Library.
 Copyright (C) 1997, 1999, 2002, 2004 Free Software Foundation, Inc. This
 file is
```

```
part of the GNU C Library.
 Copyright (C) 1997, 1999, 2004 Free Software Foundation, Inc. This file is
 part

of the GNU C Library.
 Copyright (C) 1997, 1999, 2004, 2006 Free Software Foundation, Inc. This
 file is

part of the GNU C Library.
 Copyright (C) 1997, 1999, 2006 Free Software Foundation, Inc. This file is
 part

of the GNU C Library.
 Copyright (C) 1997, 1999, 2010 Free Software Foundation, Inc. This file is
 part

of the GNU C Library.
 Copyright (C) 1997, 2000, 2001, 2003, 2004, 2005, 2006, 2008  Free Software
 Foundation,

Inc.
 Copyright (C) 1997, 2004, 2009 Free Software Foundation, Inc. This file is
 part

of the GNU C Library.
 Copyright (C) 1997-2012 Free Software Foundation, Inc. This file is part of
 the

GNU C Library.
 Copyright (C) 1999 Free Software Foundation, Inc. This file is part of the
 GNU C

Library.
 Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2009  Free
 Software

Foundation, Inc.
 Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2008  Free Software
 Foundation,

Inc.
 Copyright (C) 1999, 2000, 2001, 2003, 2004, 2005, 2008  Free Software
 Foundation,

Inc.
 Copyright (C) 1999, 2004 Free Software Foundation, Inc. This file is part
 of the

GNU C Library.
 Copyright (C) 2000, 2004, 2008 Free Software Foundation, Inc. This file is
 part

of the GNU C Library.
 Copyright (C) 2001 Stephen L. Moshier <moshier@na-net.ornl.gov> and are
 incorporated

herein by permission of the author. The author
 Copyright (C) 2001, 2002, 2003, 2005, 2008 Free Software Foundation, Inc.
 Copyright (C) 2001, 2002, 2003, 2005, 2009 Free Software Foundation, Inc.
 Copyright (C) 2001, 2003, 2005 Free Software Foundation, Inc.
 Copyright (C) 2001, 2003, 2005, 2008 Free Software Foundation, Inc.
 Copyright (C) 2002, 2003, 2005, 2006, 2007, 2008 Free Software Foundation,
 Inc.
```

```
 Copyright (C) 2003, 2004, 2005, 2006 Free Software Foundation, Inc.
 Copyright (C) 2004, 2005 Free Software Foundation, Inc.
 Copyright (C) 2006, 2008 Free Software Foundation, Inc.
 Copyright (C) 2009 Free Software Foundation, Inc. This config.status script
 is free

software; the Free Software Foundation
 Copyright (C) 2009 Free Software Foundation, Inc. This configure script is
 free

software; the Free Software Foundation
 Copyright (C) 2010, 2011 Free Software Foundation, Inc. Written by
 Francois-Xavier

Coudert <fxcoudert@gcc.gnu.org>
 Copyright (C) 2010, 2011 Free Software Foundation, Inc. Written by Tobias
 Burnus

<burnus@net-b.de>
 Copyright (C) 2010-2012 Free Software Foundation, Inc. This file is part of
 the

GNU C Library.
 Copyright (C) 2011 Free Software Foundation, Inc. Written by Jakub Jelinek
 <jakub@redhat.com>


 Copyright (C) 2012 Free Software Foundation, Inc.
 Copyright (C) 2012 Free Software Foundation, Inc. This file is part of the
 GNU C

Library.
Copyright (C) 2010, 2011 Free Software Foundation, Inc. Written by Francois-
Xavier

Coudert <fxcoudert@gcc.gnu.org>
== files ./libquadmath/math/scalbnq.c ./libquadmath/math/cosq.c ./
libquadmath/math/atan2q.c

./libquadmath/math/tanq.c ./libquadmath/math/asinq.c ./libquadmath/math/
rem_pio2q.c

./libquadmath/math/remainderq.c ./libquadmath/math/ceilq.c ./libquadmath/
math/jnq.c

./libquadmath/math/finiteq.c ./libquadmath/math/floorq.c ./libquadmath/math/
erfq.c

./libquadmath/math/modfq.c ./libquadmath/math/ldexpq.c ./libquadmath/math/
powq.c

./libquadmath/math/acoshq.c ./libquadmath/math/asinhq.c ./libquadmath/math/
copysignq.c

./libquadmath/math/hypotq.c ./libquadmath/math/isnanq.c ./libquadmath/math/
nextafterq.c

./libquadmath/math/fmodq.c ./libquadmath/math/tanhq.c ./libquadmath/math/
sinhq.c

./libquadmath/math/nearbyintq.c ./libquadmath/math/coshq.c ./libquadmath/
math/scalblnq.c
```

```
./libquadmath/math/sinq.c ./libquadmath/math/atanhq.c ./libquadmath/math/
acosq.c

./libquadmath/math/frexpq.c ./libquadmath/math/rintq.c ./libquadmath/math/
ilogbq.c

./libquadmath/math/fabsq.c under
 * ====================================================
 * Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.
 *
 * Developed at SunPro, a Sun Microsystems, Inc. business.
 * Permission to use, copy, modify, and distribute this
 * software is freely granted, provided that this notice
 * is preserved.
 * ====================================================
```

Provider: NumPy Developers / Component(s): NumPy 1.24.2

```
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.
```

```
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: extra-dll\libopenb*.dll
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
```

```
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
tempita

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------
dragon4
  Copyright (c) 2022 Ryan Juckett
```

```
  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

--------------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

---------------------------------------------------------------------------------
LICENSES_bundled in different directories:
---------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md
```

```
Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
```

```
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

-------------------------------------------------------------------------------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
```

```
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------------------------
```

Provider: Nvidia Corporation / Component(s): pynvml 11.5.0

```
Copyright (c) 2011-2021, NVIDIA Corporation.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of staged-recipes nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

O to Q

Provider: okkez / Component(s): fluent-plugin-concat 2.5.0

```
The MIT License (MIT)

Copyright (c) 2016 okkez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

3rd party dependency of fluent-plugin-concat 2.5.0:
===============================================================================
Flunentd
----------



Fluentd (Apache 2.0)
=================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
```

```
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2011-2018 Fluentd Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

4th party dependencies
=======================

=================
bundler
MIT Licese

Copyright (c) Chad Fowler, Rich Kilmer, Jim Weirich and others.

Portions copyright (c) Engine Yard and Andre Arko


Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the

'Software'), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to

the following conditions:
```

```
The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.


THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY

CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE

SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================
msgpack

Copyright (c) 2008-2015 Sadayuki Furuhashi

 Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

===========================

cool.io

MIT License

Copyright (c) 2007-10 Tony Arcieri

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
===========================================
```

```
http_parser.rb

MIT License

Copyright 2009,2010 Marc-André Cournoyer
Copyright 2010,2011 Aman Gupta

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
================================================
serverengine

Copyright (C) 2012-2013 Sadayuki Furuhashi

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
================================================
sigdump

    Copyright 2011-2018 Fluentd Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
=======================================================
strptime

BSD-2-CLAUSE

Copyright (C) 2015 NARUSE, Yui. All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

ext/strptime/strptime.c:
  date_strptime.c: Coded by Tadayoshi Funaba 2011,2012
  Copyright (C) 2004-2007 Koichi Sasada
==============================================================
tzinfo

MIT License

Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==================================================
concurrent-ruby

Copyright (c) Jerry D'Antonio -- released under the MIT license.

http://www.opensource.org/licenses/mit-license.php

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
============================================
tzinfo-data

MIT License

Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
====================================================
webrick

BSD-2-CLAUSE

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
================================================
yajl-ruby

The MIT License (MIT)

Copyright (c) 2014 Brian Lopez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
================================================
```

Provider: Olivier Poitrey / Component(s): xid 1.2.0

```
xid 1.2.0
COPYRIGHT and LICENSE:
Copyright (c) 2015 Olivier Poitrey <rs@dailymotion.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
 furnished
to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Onsi Fakhouri / Component(s): ginkgo 1.3.1

```
Copyright (c) 2013-2014 Onsi Fakhouri

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Onsi Fakhouri / Component(s): gomega 1.1.0

```
Copyright (c) 2013-2014 Onsi Fakhouri
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Open Source / Component(s): pandas 1.0.3

```
Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2020, Open source contributors.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--

python-dateutil

Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------


dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.



--

pytz

Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--

numpy

Copyright © 2005-2020, NumPy Developers.

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,

are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list

of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list

of conditions and the following disclaimer in the documentation and/or other
 materials

provided with the distribution.

Neither the name of the NumPy Developers nor the names of any contributors
 may be

used to endorse or promote products derived from this software without
 specific prior

written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS”
 AND ANY

EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES

OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT

SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT

OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)

HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,

OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF

THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--

six

Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
```

```
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of


the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS


FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--

haven

# MIT License

Copyright (c) 2019 Hadley Wickham; RStudio; and Evan Miller

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--

musl

musl as a whole is licensed under the following standard MIT license:

----------------------------------------------------------------------
Copyright © 2005-2014 Rich Felker, et al.

Permission is hereby granted, free of charge, to any person obtaining
```

```
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------

Authors/contributors include:

Anthony G. Basile
Arvid Picciani
Bobby Bingham
Boris Brezillon
Brent Cook
Chris Spiegel
Clément Vasseur
Emil Renner Berthing
Hiltjo Posthuma
Isaac Dunham
Jens Gustedt
Jeremy Huntwork
John Spencer
Justin Cormack
Luca Barbato
Luka Perkov
M Farkas-Dyck (Strake)
Michael Forney
Nicholas J. Kain
orc
Pascal Cuoq
Pierre Carrier
Rich Felker
Richard Pennington
sin
Solar Designer
Stefan Kristiansson
Szabolcs Nagy
Timo Teräs
Valentin Ochs
William Haddon

Portions of this software are derived from third-party works licensed
under terms compatible with the above MIT license:

The TRE regular expression implementation (src/regex/reg* and
src/regex/tre*) is Copyright © 2001-2008 Ville Laurikari and licensed
under a 2-clause BSD license (license text in the source files). The
included version has been heavily modified by Rich Felker in 2012, in
the interests of size, simplicity, and namespace cleanliness.

Much of the math library code (src/math/* and src/complex/*) is
Copyright © 1993,2004 Sun Microsystems or
```

```
Copyright © 2003-2011 David Schultz or
Copyright © 2003-2009 Steven G. Kargl or
Copyright © 2003-2009 Bruce D. Evans or
Copyright © 2008 Stephen L. Moshier
and labelled as such in comments in the individual source files. All
have been licensed under extremely permissive terms.

The ARM memcpy code (src/string/armel/memcpy.s) is Copyright © 2008
The Android Open Source Project and is licensed under a two-clause BSD
license. It was taken from Bionic libc, used on Android.

The implementation of DES for crypt (src/misc/crypt_des.c) is
Copyright © 1994 David Burren. It is licensed under a BSD license.

The implementation of blowfish crypt (src/misc/crypt_blowfish.c) was
originally written by Solar Designer and placed into the public
domain. The code also comes with a fallback permissive license for use
in jurisdictions that may not recognize the public domain.

The smoothsort implementation (src/stdlib/qsort.c) is Copyright © 2011
Valentin Ochs and is licensed under an MIT-style license.

The BSD PRNG implementation (src/prng/random.c) and XSI search API
(src/search/*.c) functions are Copyright © 2011 Szabolcs Nagy and
licensed under following terms: "Permission to use, copy, modify,
and/or distribute this code for any purpose with or without fee is
hereby granted. There is no warranty."

The x86_64 port was written by Nicholas J. Kain. Several files (crt)
were released into the public domain; others are licensed under the
standard MIT license terms at the top of this file. See individual
files for their copyright status.

The mips and microblaze ports were originally written by Richard
Pennington for use in the ellcc project. The original code was adapted
by Rich Felker for build system and code conventions during upstream
integration. It is licensed under the standard MIT terms.

The powerpc port was also originally written by Richard Pennington,
and later supplemented and integrated by John Spencer. It is licensed
under the standard MIT terms.

All other files which have no copyright comments are original works
produced specifically for use as part of this library, written either
by Rich Felker, the main author of the library, or by one or more
contibutors listed above. Details on authorship of individual files
can be found in the git version control history of the project. The
omission of copyright and license comments in each file is in the
interest of source tree size.

All public header files (include/* and arch/*/bits/*) should be
treated as Public Domain as they intentionally contain no content
which can be covered by copyright. Some source modules may fall in
this category as well. If you believe that a file is so trivial that
it should be in the Public Domain, please contact the authors and
request an explicit statement releasing it from copyright.

The following files are trivial, believed not to be copyrightable in
the first place, and hereby explicitly released to the Public Domain:

All public headers: include/*, arch/*/bits/*
Startup files: crt/*

--
```

```
numpydoc

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli
 Virtanen <pav@iki.fi>



Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--

bottleneck

Copyright (c) 2010-2019 Keith Goodman Copyright (c) 2019 Bottleneck
 Developers All

rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,

are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list

of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list

of conditions and the following disclaimer in the documentation and/or other
 materials

provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS”
 AND ANY

EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
```

```
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT

SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT

OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)

HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,

OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF

THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--

google-api-python-client

Copyright (C) 2012 Google Inc.
All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--

Pyperclip

Copyright (c) 2010, Albert Sweigart
All rights reserved.

BSD-style license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the pyperclip nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY Albert Sweigart "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL Albert Sweigart BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
```

```
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--

sas7bdat

Copyright (c) 2015 Jared Hobbs

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--

scipy

Copyright (c) 2001, 2002 Enthought, Inc.
All rights reserved.

Copyright (c) 2003-2012 SciPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Enthought nor the names of the SciPy Developers
     may be used to endorse or promote products derived from this software
     without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
```

```
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--

ujson

Copyright (c) 2011-2013, ESN Social Software AB and Jonas Tarnstrom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the ESN Social Software AB nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL ESN SOCIAL SOFTWARE AB OR JONAS TARNSTROM BE
 LIABLE


FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES


(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)
https://github.com/client9/stringencoders
Copyright (c) 2007  Nick Galbreath -- nickg [at] modp [dot] com. All rights
 reserved.



Numeric decoder derived from from TCL library
http://www.opensource.apple.com/source/tcl/tcl-14/tcl/license.terms
 * Copyright (c) 1988-1993 The Regents of the University of California.
 * Copyright (c) 1994 Sun Microsystems, Inc.

--

xarray

Apache License
```

```
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration


files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,


generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made


available under the License, as indicated by a copyright notice that is
 included


in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.
```

```
"Contribution" shall mean any work of authorship, including the original
 version


of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright


owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such


Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.
```

```
4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,


all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of


the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,


provided Your use, reproduction, and distribution of the Work otherwise
 complies


with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
```

```
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the


Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or


out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or


any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,


in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
```

```
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within


third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: OpenCensus Authors / Component(s): opencensus-go 1.16.0

```
opencensus-go 1.16.0
COPYRIGHT: Copyright 2018, OpenCensus Authors
LICENSE: Apache 2.0
                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.

-----------------
4P Dependencies:

github.com/apache/thrift version master
 d566da7739c9aae63fe7fc9d267887fa73e5dda7
COPYRIGHT: Copyright 2006-2017 The Apache Software Foundation.
LICENSE: Apache 2.0 https://github.com/apache/thrift/blob/master/LICENSE
```

```
---
github.com/beorn7/perks version
 master:3a771d992973f24aa725d07868b467d1ddfceafb
COPYRIGHT and LICENSE:
Copyright (C) 2013 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



---
github.com/golang/protobuf version 1.1.0
COPYRIGHT: Copyright 2010 The Go Authors. All rights reserved.
LICENSE:
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
github.com/matttproud/golang_protobuf_extensions version 1.0.1
COPYRIGHT: Copyright 2012 Matt T. Proud (matt.proud@gmail.com)
LICENSE: Apache-2.0,https://raw.githubusercontent.com/matttproud/
golang_protobuf_extensions/master/LICENSE
```

```
---
github.com/openzipkin/zipkin-go version 0.1.0
COPYRIGHT: Copyright 2017 The OpenZipkin Authors
LICENSE: Apache 2.0 https://github.com/openzipkin/zipkin-go/blob/v0.1.0/
LICENSE

---
github.com/prometheus/client_golang version 0.8.0
COPYRIGHT: Copyright 2014-2018 The Prometheus Authors
LICENSE: Apache 2.0 https://github.com/prometheus/client_golang/blob/v0.8.0/
LICENSE

---
github.com/prometheus/client_model version
 master:99fa1f4be8e564e8a6b613da7fa6f46c9edafc6c
COPYRIGHT: Copyright 2012-2015 The Prometheus Authors
LICENSE: Apache 2.0 https://raw.githubusercontent.com/prometheus/
client_model/master/LICENSE
This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/)


---
github.com/prometheus/common version
 master:7600349dcfe1abd18d72d3a1770870d9800a7801
COPYRIGHT: Copyright 2015 The Prometheus Authors
LICENSE: Apache 2.0 https://raw.githubusercontent.com/prometheus/common/
master/LICENSE
This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---
github.com/prometheus/procfs version
 master:7d6f385de8bea29190f15ba9931442a0eaef9af7
COPYRIGHT: Copyright 2014-2015 The Prometheus Authors
LICENSE: Apache-2.0 https://raw.githubusercontent.com/prometheus/procfs/
master/LICENSE
This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---
golang.org/x/net version master:1c05540f6879653db88113bc4a2b70aec4bd491f
golang.org/x/sync version master:1d60e4601c6fd243af51cc01ddf169918a5407ca
golang.org/x/text version master: b19bf474d317b857955b12035d2c5acb57ce8b01

COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
google.golang.org/api version master:
 2eea9ba0a3d94f6ab46508083e299a00bbbc65f6
COPYRIGHT and LICENSE:
Copyright (c) 2011 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
google.golang.org/grpc version 1.13.0
COPYRIGHT: Copyright 2015 - 2018 gRPC authors.
LICENSE: Apache 2.0 https://github.com/grpc/grpc-go/blob/v1.11.3/LICENSE


---
google.golang.org/genproto version
 master:32ee49c4dd805befd833990acba36cb75042378c
COPYRIGHT: Copyright 2016 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/go-genproto/blob/master/
LICENSE
```

Provider: opendaylight.org / Component(s): odl-ovsdb-library 1.2.3-Beryllium-SR2

```
Development must ensure that the following Eclipse Public License and
 applicable preambles as described below are included in the Oracle Cloud,
 Compute Service and Nimbula Director package documentation:
Additionally, the following information must be provided in the 'copyright
 information' file of every Oracle product package that contains this code:
(1) third party code name and version,
(2) applicable license text/copyright notices contained in this Attribution
 Requirements section below:
--------------------------------------------------------------------------------

1.  The source code for odl-ovsdb-library 1.2.3-Beryllium-SR2 and
 the Eclipse Public License can be found at:   http://www.oracle.com/
technetwork/opensource/index.htm  (The EPL license is reproduced below).

2.  All past and current Contributors to odl-ovsdb-library 1.2.3-Beryllium-
SR2 disclaim all warranties and conditions, express and implied, including
 warranties or conditions of title and non-infringement, and implied
 warranties or conditions of merchantability and fitness for a particular
 purpose.  In addition, such Contributors are not liable for any damages,
 including direct, indirect, special, incidental and consequential damages,
 such as lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.


Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.
```

```
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
```

```
When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
```

```
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: OpenJS Foundation / Component(s): lodash 4.17.21

```
The MIT License

Copyright OpenJS Foundation and other contributors https://openjsf.org/

Based on Underscore.js, copyright Jeremy Ashkenas,
```

```
DocumentCloud and Investigative Reporters & Editors http://underscorejs.org/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code displayed within the prose of the
documentation.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

Files located in the node_modules and vendor directories are externally
maintained libraries used by this software which have their own
licenses; we recommend you read them, as their terms may differ from the
terms above.
```

Provider: OpenLDAP / Component(s): Lightning Memory-Mapped Database Manager (LMDB) 0.9.24

```
The OpenLDAP Public License
      Version 2.8, 17 August 2003

    Redistribution and use of this software and associated documentation
    ("Software"), with or without modification, are permitted provided
    that the following conditions are met:

    1. Redistributions in source form must retain copyright statements
       and notices,

    2. Redistributions in binary form must reproduce applicable copyright
       statements and notices, this list of conditions, and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution, and
```

```
    3. Redistributions must contain a verbatim copy of this document.

    The OpenLDAP Foundation may revise this license from time to time.
    Each revision is distinguished by a version number.  You may use
    this Software under terms of this license revision or under the
    terms of any subsequent revision of the license.

    THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS
    CONTRIBUTORS ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
    INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
    AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT
    SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S)
    OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT,
    INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
    BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
    LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
    ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
    POSSIBILITY OF SUCH DAMAGE.

    The names of the authors and copyright holders must not be used in
    advertising or otherwise to promote the sale, use or other dealing
    in this Software without specific, written prior permission.  Title
    to copyright in this Software shall at all times remain with copyright
    holders.

Copyright ----------
Copyright 2011-2019 Howard Chu, Symas Corp.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted only as authorized by the OpenLDAP
Public License.

A copy of this license is available in the file LICENSE in the
top-level directory of the distribution or, alternatively, at
<http://www.OpenLDAP.org/license.html>.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Individual files and/or contributed packages may be copyright by
other parties and/or subject to additional restrictions.

This work also contains materials derived from public sources.

Additional information about OpenLDAP can be obtained at
<http://www.openldap.org/>.
```

Provider: OpenResty / Component(s): Lua Resty Core 0.1.19

```
Copyright (C) 2013-2019, by Yichun "agentzh" Zhang, OpenResty Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
```

```
    Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: OpenResty / Component(s): luajit2 2.1

```
===============================================================================
LuaJIT -- a Just-In-Time Compiler for Lua. http://luajit.org/

Copyright (C) 2005-2020 Mike Pall. All rights reserved.

Copyright (C) 2017-2018 Yichun Zhang. All rights reserved.

Copyright (C) 2017-2018 OpenResty Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

[ MIT license: http://www.opensource.org/licenses/mit-license.php ]

===============================================================================
[ LuaJIT includes code from Lua 5.1/5.2, which has this license statement: ]

Copyright (C) 1994-2012 Lua.org, PUC-Rio.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

===============================================================================
[ LuaJIT includes code from dlmalloc, which has this license statement: ]

This is a version (aka dlmalloc) of malloc/free/realloc written by
Doug Lea and released to the public domain, as explained at
http://creativecommons.org/licenses/publicdomain

===============================================================================
```

Provider: OpenResty / Component(s): lua-nginx-module 0.10.17

```
This module is licensed under the BSD license.

Copyright (C) 2009-2017, by Xiaozhe Wang (chaoslawful)
 chaoslawful@gmail.com.

Copyright (C) 2009-2019, by Yichun "agentzh" Zhang (章亦春) agentzh@gmail.com,
 OpenResty Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this
    list of conditions and the following disclaimer.

    Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

Provider: OpenResty / Component(s): lua-resty-lrucache 0.10

```
This module is licensed under the BSD license.

Copyright (C) 2014-2019, by Yichun "agentzh" Zhang, OpenResty Inc.

Copyright (C) 2014-2017, by Shuxin Yang.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

    Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: OpenSSL Project / Component(s): solaris-openssl-fips 1.0

```
LICENSE ISSUES
  ==============

  The OpenSSL toolkit stays under a dual license, i.e. both the conditions
 of
  the OpenSSL License and the original SSLeay license apply to the toolkit.
  See below for the actual license texts. Actually both licenses are BSD-
style
  Open Source licenses. In case of any license issues related to OpenSSL
  please contact openssl-core@openssl.org.

  OpenSSL License
  ---------------

/* ====================================================================
 * Copyright (c) 1998-2016 The OpenSSL Project.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
```

```
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
 * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 * ====================================================================
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com).  This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 *
 */

 Original SSLeay License
 -----------------------

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to.  The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
```

```
 * If this package is used in a product, Eric Young should be given
 attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    "This product includes cryptographic software written by
 *     Eric Young (eay@cryptsoft.com)"
 *    The word 'cryptographic' can be left out if the rouines from the
 library
 *    being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof)
 from
 *    the apps directory (application code) you must include an
 acknowledgement:
 *    "This product includes software written by Tim Hudson
 (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
 * The licence and distribution terms for any publically available version
 or
 * derivative of this code cannot be changed.  i.e. this code cannot simply
 be
 * copied and put under another distribution licence
 * [including the GNU Public Licence.]
*/
```

Provider: openssl.org / Component(s): OpenSSL 1.1.1q

```
LICENSE ISSUES
  ==============

  The OpenSSL toolkit stays under a double license, i.e. both the conditions
 of
  the OpenSSL License and the original SSLeay license apply to the toolkit.
  See below for the actual license texts.

  OpenSSL License
```

```
  ---------------

/* ====================================================================
 * Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
 * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 * ====================================================================
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com).  This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 *
 */

 Original SSLeay License
 -----------------------

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
```

```
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given
attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the
library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof)
from
*    the apps directory (application code) you must include an
acknowledgement:
*    "This product includes software written by Tim Hudson
(tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version
or
* derivative of this code cannot be changed.  i.e. this code cannot simply
be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

Provider: OpenTelemetry authors / Component(s): opentelemetry-proto-java 0.10.0

```
################################################################################
Top Level Licences - opentelemetry-proto-java
################################################################################

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

################################################################################
Top Level Notice - opentelemetry-proto-java
################################################################################

Copyright 2019, OpenTelemetry Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    = See Apache License Version 2.0 text above

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either

================================================================================
4P Dependency Licences:
================================================================================
_____________________________________________
com.google.api.grpc:proto-google-common-protos
_____________________________________________

LICENSE:
= See Apache License Version 2.0 text above

NOTICE:
Copyright 2018 Google LLC

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

= See Apache License Version 2.0 text above

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

_________________________________
com.google.code.findbugs:jsr305
_________________________________
```

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:
=== (NOTE: software below RELICENSED to Oracle under BSD 3-clause)

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

---

com.google.errorprone:error_prone_annotations

```
_____________________________________________

LICENSE:
= See Apache License Version 2.0 text above

NOTICE:
Copyright 2011 The Error Prone Authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

= See Apache License Version 2.0 text above

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


_______________________________
com.google.guava:failureaccess
_______________________________
LICENSE:
= See Apache License Version 2.0 text above

NOTICE:
Copyright (C) 2018 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

= See Apache License Version 2.0 text above

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

_______________________
com.google.guava:guava
_______________________
LICENSE:
= See Apache License Version 2.0 text above

NOTICE:
Copyright (C) 2012 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

= See Apache License Version 2.0 text above

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
```

```
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

_________________________________
com.google.guava:listenablefuture
_________________________________
LICENSE:
= See Apache License Version 2.0 text above

NOTICE:
Copyright (C) 2007 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

= See Apache License Version 2.0 text above

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

_______________________________________
com.google.j2objc:j2objc-annotations
_______________________________________
LICENSE:
= See Apache License Version 2.0 text above

NOTICE:
Copyright 2012 Google Inc. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

= See Apache License Version 2.0 text above

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
_________________________________
com.google.protobuf:protobuf-java
_________________________________

Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.


_________________
io.grpc:grpc-api
io.grpc:grpc-context
io.grpc:grpc-protobuf-lite
io.grpc:grpc-protobuf
io.grpc:grpc-stub
_________________
LICENSE:
= See Apache License Version 2.0 text above

NOTICE:
Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

= See Apache License Version 2.0 text above

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

------------------------------------------------------------------------

This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:

  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp

This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:

  * LICENSE:
```

```
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
      Envoy
      Copyright The Envoy Project Authors

      Licensed under Apache License 2.0.  See LICENSE for terms.
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy

This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:

  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate

This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:

  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa

_________________________________________
org.checkerframework:checker-compat-qual
_________________________________________
LICENSE:
MIT License:
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the “Software”), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

NOTICE:
Copyright 2004-present by the Checker Framework developers
```

Provider: OpenZFS Community / Component(s): ZFS on Linux 0.7.12

```
1.  {Component Name} and any additions or changes thereto are available in
 source and object code form under the Common Development and Distribution
 License 1.0 at:  {INSERT URL}
2.  Any provisions of the Oracle license agreement that differ from the
 Common Development and Distribution License 1.0 are offered by Oracle alone
 and not by any other party.
3. Oracle disclaims on behalf of itself and all contributors to the
 CDDL code all warranties and conditions, express and implied, including
 warranties or conditions of title and non-infringement, and implied
 warranties or conditions of merchantability and fitness for a particular
 purpose.  In addition, Oracle excludes on behalf of itself and all
 contributors all liability for damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.

ZFS on Linux 0.7.12

COPYRIGHT: (c) OpenZFS Community

LICENSE: CDDL v1.0

Unless otherwise noted, all files in this distribution are released
under the Common Development and Distribution License (CDDL).
Exceptions are noted within the associated source files.

----------------------------------------------------------------------


COMMON DEVELOPMENT AND DISTRIBUTION LICENSE Version 1.0

1. Definitions.

    1.1. "Contributor" means each individual or entity that creates
         or contributes to the creation of Modifications.

    1.2. "Contributor Version" means the combination of the Original
         Software, prior Modifications used by a Contributor (if any),
         and the Modifications made by that particular Contributor.

    1.3. "Covered Software" means (a) the Original Software, or (b)
         Modifications, or (c) the combination of files containing
         Original Software with files containing Modifications, in
         each case including portions thereof.

    1.4. "Executable" means the Covered Software in any form other
         than Source Code.

    1.5. "Initial Developer" means the individual or entity that first
         makes Original Software available under this License.

    1.6. "Larger Work" means a work which combines Covered Software or
         portions thereof with code not governed by the terms of this
         License.

    1.7. "License" means this document.

    1.8. "Licensable" means having the right to grant, to the maximum
         extent possible, whether at the time of the initial grant or
         subsequently acquired, any and all of the rights conveyed
         herein.

    1.9. "Modifications" means the Source Code and Executable form of
```

```
         any of the following:

        A. Any file that results from an addition to, deletion from or
           modification of the contents of a file containing Original
           Software or previous Modifications;

        B. Any new file that contains any part of the Original
           Software or previous Modifications; or

        C. Any new file that is contributed or otherwise made
           available under the terms of this License.

    1.10. "Original Software" means the Source Code and Executable
          form of computer software code that is originally released
          under this License.

    1.11. "Patent Claims" means any patent claim(s), now owned or
          hereafter acquired, including without limitation, method,
          process, and apparatus claims, in any patent Licensable by
          grantor.

    1.12. "Source Code" means (a) the common form of computer software
          code in which modifications are made and (b) associated
          documentation included in or with such code.

    1.13. "You" (or "Your") means an individual or a legal entity
          exercising rights under, and complying with all of the terms
          of, this License.  For legal entities, "You" includes any
          entity which controls, is controlled by, or is under common
          control with You.  For purposes of this definition,
          "control" means (a) the power, direct or indirect, to cause
          the direction or management of such entity, whether by
          contract or otherwise, or (b) ownership of more than fifty
          percent (50%) of the outstanding shares or beneficial
          ownership of such entity.

2. License Grants.

    2.1. The Initial Developer Grant.

    Conditioned upon Your compliance with Section 3.1 below and
    subject to third party intellectual property claims, the Initial
    Developer hereby grants You a world-wide, royalty-free,
    non-exclusive license:

        (a) under intellectual property rights (other than patent or
            trademark) Licensable by Initial Developer, to use,
            reproduce, modify, display, perform, sublicense and
            distribute the Original Software (or portions thereof),
            with or without Modifications, and/or as part of a Larger
            Work; and

        (b) under Patent Claims infringed by the making, using or
            selling of Original Software, to make, have made, use,
            practice, sell, and offer for sale, and/or otherwise
            dispose of the Original Software (or portions thereof).

        (c) The licenses granted in Sections 2.1(a) and (b) are
            effective on the date Initial Developer first distributes
            or otherwise makes the Original Software available to a
            third party under the terms of this License.

        (d) Notwithstanding Section 2.1(b) above, no patent license is
            granted: (1) for code that You delete from the Original
```

```
            Software, or (2) for infringements caused by: (i) the
            modification of the Original Software, or (ii) the
            combination of the Original Software with other software
            or devices.

    2.2. Contributor Grant.

    Conditioned upon Your compliance with Section 3.1 below and
    subject to third party intellectual property claims, each
    Contributor hereby grants You a world-wide, royalty-free,
    non-exclusive license:

        (a) under intellectual property rights (other than patent or
            trademark) Licensable by Contributor to use, reproduce,
            modify, display, perform, sublicense and distribute the
            Modifications created by such Contributor (or portions
            thereof), either on an unmodified basis, with other
            Modifications, as Covered Software and/or as part of a
            Larger Work; and

        (b) under Patent Claims infringed by the making, using, or
            selling of Modifications made by that Contributor either
            alone and/or in combination with its Contributor Version
            (or portions of such combination), to make, use, sell,
            offer for sale, have made, and/or otherwise dispose of:
            (1) Modifications made by that Contributor (or portions
            thereof); and (2) the combination of Modifications made by
            that Contributor with its Contributor Version (or portions
            of such combination).

        (c) The licenses granted in Sections 2.2(a) and 2.2(b) are
            effective on the date Contributor first distributes or
            otherwise makes the Modifications available to a third
            party.

        (d) Notwithstanding Section 2.2(b) above, no patent license is
            granted: (1) for any code that Contributor has deleted
            from the Contributor Version; (2) for infringements caused
            by: (i) third party modifications of Contributor Version,
            or (ii) the combination of Modifications made by that
            Contributor with other software (except as part of the
            Contributor Version) or other devices; or (3) under Patent
            Claims infringed by Covered Software in the absence of
            Modifications made by that Contributor.

3. Distribution Obligations.

    3.1. Availability of Source Code.

    Any Covered Software that You distribute or otherwise make
    available in Executable form must also be made available in Source
    Code form and that Source Code form must be distributed only under
    the terms of this License.  You must include a copy of this
    License with every copy of the Source Code form of the Covered
    Software You distribute or otherwise make available.  You must
    inform recipients of any such Covered Software in Executable form
    as to how they can obtain such Covered Software in Source Code
    form in a reasonable manner on or through a medium customarily
    used for software exchange.

    3.2. Modifications.

    The Modifications that You create or to which You contribute are
    governed by the terms of this License.  You represent that You
```

```
    believe Your Modifications are Your original creation(s) and/or
    You have sufficient rights to grant the rights conveyed by this
    License.

    3.3. Required Notices.

    You must include a notice in each of Your Modifications that
    identifies You as the Contributor of the Modification.  You may
    not remove or alter any copyright, patent or trademark notices
    contained within the Covered Software, or any notices of licensing
    or any descriptive text giving attribution to any Contributor or
    the Initial Developer.

    3.4. Application of Additional Terms.

    You may not offer or impose any terms on any Covered Software in
    Source Code form that alters or restricts the applicable version
    of this License or the recipients' rights hereunder.  You may
    choose to offer, and to charge a fee for, warranty, support,
    indemnity or liability obligations to one or more recipients of
    Covered Software.  However, you may do so only on Your own behalf,
    and not on behalf of the Initial Developer or any Contributor.
    You must make it absolutely clear that any such warranty, support,
    indemnity or liability obligation is offered by You alone, and You
    hereby agree to indemnify the Initial Developer and every
    Contributor for any liability incurred by the Initial Developer or
    such Contributor as a result of warranty, support, indemnity or
    liability terms You offer.

    3.5. Distribution of Executable Versions.

    You may distribute the Executable form of the Covered Software
    under the terms of this License or under the terms of a license of
    Your choice, which may contain terms different from this License,
    provided that You are in compliance with the terms of this License
    and that the license for the Executable form does not attempt to
    limit or alter the recipient's rights in the Source Code form from
    the rights set forth in this License.  If You distribute the
    Covered Software in Executable form under a different license, You
    must make it absolutely clear that any terms which differ from
    this License are offered by You alone, not by the Initial
    Developer or Contributor.  You hereby agree to indemnify the
    Initial Developer and every Contributor for any liability incurred
    by the Initial Developer or such Contributor as a result of any
    such terms You offer.

    3.6. Larger Works.

    You may create a Larger Work by combining Covered Software with
    other code not governed by the terms of this License and
    distribute the Larger Work as a single product.  In such a case,
    You must make sure the requirements of this License are fulfilled
    for the Covered Software.

4. Versions of the License.

    4.1. New Versions.

    Sun Microsystems, Inc. is the initial license steward and may
    publish revised and/or new versions of this License from time to
    time.  Each version will be given a distinguishing version number.
    Except as provided in Section 4.3, no one other than the license
    steward has the right to modify this License.
```

```
    4.2. Effect of New Versions.

    You may always continue to use, distribute or otherwise make the
    Covered Software available under the terms of the version of the
    License under which You originally received the Covered Software.
    If the Initial Developer includes a notice in the Original
    Software prohibiting it from being distributed or otherwise made
    available under any subsequent version of the License, You must
    distribute and make the Covered Software available under the terms
    of the version of the License under which You originally received
    the Covered Software.  Otherwise, You may also choose to use,
    distribute or otherwise make the Covered Software available under
    the terms of any subsequent version of the License published by
    the license steward.

    4.3. Modified Versions.

    When You are an Initial Developer and You want to create a new
    license for Your Original Software, You may create and use a
    modified version of this License if You: (a) rename the license
    and remove any references to the name of the license steward
    (except to note that the license differs from this License); and
    (b) otherwise make it clear that the license contains terms which
    differ from this License.

5. DISCLAIMER OF WARRANTY.

    COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS"
    BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
    INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED
    SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR
    PURPOSE OR NON-INFRINGING.  THE ENTIRE RISK AS TO THE QUALITY AND
    PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU.  SHOULD ANY
    COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE
    INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
    NECESSARY SERVICING, REPAIR OR CORRECTION.  THIS DISCLAIMER OF
    WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE.  NO USE OF
    ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS
    DISCLAIMER.

6. TERMINATION.

    6.1. This License and the rights granted hereunder will terminate
    automatically if You fail to comply with terms herein and fail to
    cure such breach within 30 days of becoming aware of the breach.
    Provisions which, by their nature, must remain in effect beyond
    the termination of this License shall survive.

    6.2. If You assert a patent infringement claim (excluding
    declaratory judgment actions) against Initial Developer or a
    Contributor (the Initial Developer or Contributor against whom You
    assert such claim is referred to as "Participant") alleging that
    the Participant Software (meaning the Contributor Version where
    the Participant is a Contributor or the Original Software where
    the Participant is the Initial Developer) directly or indirectly
    infringes any patent, then any and all rights granted directly or
    indirectly to You by such Participant, the Initial Developer (if
    the Initial Developer is not the Participant) and all Contributors
    under Sections 2.1 and/or 2.2 of this License shall, upon 60 days
    notice from Participant terminate prospectively and automatically
    at the expiration of such 60 day notice period, unless if within
    such 60 day period You withdraw Your claim with respect to the
    Participant Software against such Participant either unilaterally
    or pursuant to a written agreement with Participant.
```

```
    6.3. In the event of termination under Sections 6.1 or 6.2 above,
    all end user licenses that have been validly granted by You or any
    distributor hereunder prior to termination (excluding licenses
    granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

    UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
    (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
    INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
    COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE
    LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
    CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
    LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK
    STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
    COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN
    INFORMED OF THE POSSIBILITY OF SUCH DAMAGES.  THIS LIMITATION OF
    LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL
    INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT
    APPLICABLE LAW PROHIBITS SUCH LIMITATION.  SOME JURISDICTIONS DO
    NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR
    CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT
    APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

    The Covered Software is a "commercial item," as that term is
    defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial
    computer software" (as that term is defined at 48
    C.F.R. 252.227-7014(a)(1)) and "commercial computer software
    documentation" as such terms are used in 48 C.F.R. 12.212
    (Sept. 1995).  Consistent with 48 C.F.R. 12.212 and 48
    C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all
    U.S. Government End Users acquire Covered Software with only those
    rights set forth herein.  This U.S. Government Rights clause is in
    lieu of, and supersedes, any other FAR, DFAR, or other clause or
    provision that addresses Government rights in computer software
    under this License.

9. MISCELLANEOUS.

    This License represents the complete agreement concerning subject
    matter hereof.  If any provision of this License is held to be
    unenforceable, such provision shall be reformed only to the extent
    necessary to make it enforceable.  This License shall be governed
    by the law of the jurisdiction specified in a notice contained
    within the Original Software (except to the extent applicable law,
    if any, provides otherwise), excluding such jurisdiction's
    conflict-of-law provisions.  Any litigation relating to this
    License shall be subject to the jurisdiction of the courts located
    in the jurisdiction and venue specified in a notice contained
    within the Original Software, with the losing party responsible
    for costs, including, without limitation, court costs and
    reasonable attorneys' fees and expenses.  The application of the
    United Nations Convention on Contracts for the International Sale
    of Goods is expressly excluded.  Any law or regulation which
    provides that the language of a contract shall be construed
    against the drafter shall not apply to this License.  You agree
    that You alone are responsible for compliance with the United
    States export administration regulations (and the export control
    laws and regulation of any other countries) when You use,
    distribute or otherwise make available any Covered Software.
```

```
10. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
    responsible for claims and damages arising, directly or
    indirectly, out of its utilization of rights under this License
    and You agree to work with Initial Developer and Contributors to
    distribute such responsibility on an equitable basis.  Nothing
    herein is intended or shall be deemed to constitute any admission
    of liability.

----------------------------------------------------------------------

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND
DISTRIBUTION LICENSE (CDDL)

For Covered Software in this distribution, this License shall
be governed by the laws of the State of California (excluding
conflict-of-law provisions).

Any litigation relating to this License shall be subject to the
jurisdiction of the Federal Courts of the Northern District of
California and the state courts of the State of California, with
venue lying in Santa Clara County, California.



================================
Modules:

avl
icp
nvpair
unicode
zcommon
zfs
zpios


================================
4P Dependencies:


The majority of the code in the ZFS on Linux port comes from OpenSolaris
which has been released under the terms of the CDDL open source license.
This includes the core ZFS code, libavl, libnvpair, libefi, libunicode,
and libutil.  The original OpenSolaris source can be downloaded from:

http://dlc.sun.com/osol/on/downloads/b121/on-src.tar.bz2

Files which do not originate from OpenSolaris are noted in the file header
and attributed properly.  These exceptions include, but are not limited
to, the vdev_disk.c and zvol.c implementation which are licensed under
the CDDL.


The zpios test code is originally derived from the Lustre pios test code
which is licensed under the GPLv2.  As such the heavily modified zpios
kernel test code also remains licensed under the GPLv2.

The latest stable and development versions of this port can be downloaded
from the official ZFS on Linux site located at:

http://zfsonlinux.org/
```

```
This ZFS on Linux port was produced at the Lawrence Livermore National
Laboratory (LLNL) under Contract No. DE-AC52-07NA27344 (Contract 44)
between the U.S. Department of Energy (DOE) and Lawrence Livermore
National Security, LLC (LLNS) for the operation of LLNL.  It has been
approved for release under LLNL-CODE-403049.

Unless otherwise noted, all files in this distribution are released
under the Common Development and Distribution License (CDDL).
Exceptions are noted within the associated source files.  See the file
OPENSOLARIS.LICENSE for more information.

Refer to the git commit log for authoritative copyright attribution.


=============


zfsonlinux/spl 0.7.12
COPYRIGHT: OpenZFS Community

Original author and maintainer.

  Brian Behlendorf <behlendorf1@llnl.gov>

Additionally the following individuals have all made contributions
to the project and deserve to be acknowledged.

  Alex Zhuravlev <Alex.Zhuravlev@Sun.COM>
  Brian J. Murrell <brian@sun.com>
  Chris Dunlap <cdunlap@llnl.gov>
  Chris Dunlop <chris@onthe.net.au>
  Darik Horn <dajhorn@vanadac.com>
  Etienne Dechamps <etienne.dechamps@ovh.net>
  Gunnar Beutner <gunnar@beutner.name>
  Jorgen Lundman <lundman@lundman.net>
  Lars Johannsen <laj@it.dk>
  Li Wei <W.Li@Sun.COM>
  Massimo Maggi <massimo@mmmm.it>
  Ned Bass <bass6@llnl.gov>
  Neependra Khare <neependra@kqinfotech.com>
  Prakash Surya <surya1@llnl.gov>
  Ricardo Correia <Ricardo.M.Correia@Sun.COM>
  Richard Yao <ryao@cs.stonybrook.edu>
  Steven Johnson <sjohnson@sakuraindustries.com>
Yuxuan Shui <yshuiv7@gmail.com>


LICENSE: GPL v2.0

                     GNU GENERAL PUBLIC LICENSE
                        Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
```

```
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

                    GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.
```

```
  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
```

```
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
```

```
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                             NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
```

```
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                     END OF TERMS AND CONDITIONS
```

Provider: OpenZipkin / Component(s): zipkin-go 0.1.0

```
zipkin-go 0.1.0
COPYRIGHT: Copyright 2017 The OpenZipkin Authors
LICENSE: Apache 2.0
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.
```

```
"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
```

```
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.
```

```
END OF TERMS AND CONDITIONS


========================
4P Dependencies:

go-lang 1.2
COPYRIGHT and LICENSE:
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
google.golang.org/grpc/metadata
COPYRIGHT: Copyright 2016, Google Inc.
LICENSE:
                             Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
```

```
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.



---
github.com/gorilla/mux
COPYRIGHT and LICENSE:
Copyright (c) 2012-2018 The Gorilla Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
github.com/Shopify/sarama
COPYRIGHT and LICENSE:
Copyright (c) 2013 Shopify

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: OpsCode / Component(s): Chef 13.0.79

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
```

```
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
```

```
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
```

```
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

4th Party Dependencies, Version, License Text:
```

```
addressable, version 0



                              Apache License
                        Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."
```

```
   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
```

```
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.
```

```
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


bundler, version 1.10

Portions copyright (c) 2010 Andre Arko
Portions copyright (c) 2009 Engine Yard

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


chef-config, version 12.19.36

                            Apache License
                      Version 2.0, January 2004
                   http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
```

```
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


chef-zero, version 4.8

                              Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
```

```
   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
```

```
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
See the License for the specific language governing permissions and
limitations under the License.


diff-lcs, version 1.2.4
https://github.com/halostatue/diff-lcs
== License

This software is available under three licenses: the GNU GPL version 2 (or
 at
your option, a later version), the Perl Artistic license, or the MIT
 license.
Note that my preference for licensing is the MIT license, but
 Algorithm::Diff
was dually originally licensed with the Perl Artistic and the GNU GPL ("the
same terms as Perl itself") and given that the Ruby implementation
 originally
hewed pretty closely to the Perl version, I must maintain the additional
licensing terms.

* Copyright 2004-2013 Austin Ziegler.
* Adapted from Algorithm::Diff (Perl) by Ned Konz and a Smalltalk version by
  Mario I. Wolczko.

This distribution chooses to distribute under the terms of the Perl Artistic
 License v2.
=== Perl Artistic License (version 2)
See the file docs/artistic.txt in the main distribution.




erubis, version 2.7

$Copyright$

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


ffi-yajl, version 2.2

Copyright (c) 2014 Lamont Granquist
Copyright (c) 2014 Chef Software, Inc.
Copyright (c) 2008-2011 Brian Lopez - http://github.com/brianmario

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
```

```
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


highline, version 1.6.9

= License Terms

Distributed under the user's choice of the {GPL Version 2}[http://
www.gnu.org/licenses/old-licenses/gpl-2.0.html] (see COPYING for details) or
 the
{Ruby software license}[http://www.ruby-lang.org/en/LICENSE.txt] by
James Edward Gray II and Greg Brown.

This distribution elects to license under the Ruby software license.
 Furthermore, as the Ruby software license allows distribution under the
 2-Clause BSD License, this distribution elects to distribute under those
 terms.

Please email James[mailto:james@grayproductions.net] with any questions.


iniparse, version 1.4

Copyright (c) 2008-2010 Anthony Williams

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


mixlib-archive, version 0.4
```

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
```

```
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
```

```
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
```

```
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


mixlib-authentication, version 1.4

                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
```

```
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
```

```
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


mixlib-cli, version 1.7

                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
```

```
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


mixlib-log, version 1.3

                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.
```

```
   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
```

```
8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


mixlib-shellout, version 2.0

                             Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.
```

```
   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
```

```
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
net-sftp, version 2.1.2

Copyright © 2008 Jamis Buck

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the 'Software'), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


net-ssh, version 2.9

Copyright © 2008 Jamis Buck

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the 'Software'), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


net-ssh-multi, version 1.2.1

Copyright © 2008 Jamis Buck
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the 'Software'), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


ohai, version 8.6.0

                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
```

```
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
```

```
9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


plist, version 3.2

Copyright (c) 2006-2010, Ben Bleything and Patrick May

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


proxifier, version 1.0
```

```
Copyright (C) 2011 by Samuel Kadolph

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


rspec-core, version 3.5

The MIT License (MIT)
======================

* Copyright © 2012 Chad Humphries, David Chelimsky, Myron Marston
* Copyright © 2009 Chad Humphries, David Chelimsky
* Copyright © 2006 David Chelimsky, The RSpec Development Team
* Copyright © 2005 Steven Baker

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


rspec-expectations, version 3.5

The MIT License (MIT)
======================

* Copyright © 2012 David Chelimsky, Myron Marston
* Copyright © 2006 David Chelimsky, The RSpec Development Team
* Copyright © 2005 Steven Baker

Permission is hereby granted, free of charge, to any person obtaining
```

```
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


rspec_junit_formatter, version 0.2.0

Copyright (c) 2011 Samuel Cochran

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


rspec-mocks, version 3.5

The MIT License (MIT)
=====================

* Copyright © 2012 David Chelimsky, Myron Marston
* Copyright © 2006 David Chelimsky, The RSpec Development Team
* Copyright © 2005 Steven Baker

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
```

```
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


serverspec, version 2.7

Copyright (c) 2013 Gosuke Miyashita

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


specinfra, version 2.10

Copyright (c) 2013 Gosuke Miyashita

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


syslog-logger, version 1.6

Copyright (c) 2010 Cyril Rohr, INRIA Rennes-Bretagne Atlantique
```

```
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


uuidtools, version 2.1.5



                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
```

```
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and
```

```
   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
```

```
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: OpsCode / Component(s): knife-windows 1.9.0

```
pache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
```

```
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
```

```
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
```

```
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


4th Party Dependencies, Version, License Text:

winrm, version 2.1



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.


winrm-elevated, version 1.0



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Oracle and/or its affiliates / Component(s): Helidon 3.2.2

```
Where there is a choice between EPL 2.0 and GPL v2 w/CPE, OCI Data Science
 elects EPL 2.0.
Where there is a choice between EPL 2.0 and EDL 1.0, OCI Data Science elects
 EDL 1.0.

-------- Copyrights
Copyright (c) 2018, 2021 Oracle and/or its affiliates.
Copyright (c) 2021 Oracle and/or its affiliates.
Copyright (c) 2020, 2021 Oracle and/or its affiliates.
Copyright (c) 2018, 2022 Oracle and/or its affiliates.
Copyright (c) 2017, 2022 Oracle and/or its affiliates.

-------- License

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

-----------------------------------------------
Third Party Attributions

The following software (or subsets of the software) are third party
 dependencies
of Helidon. They are identified by the Helidon module(s) that use them.

=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Eclipse Parsson  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-dbclient-jsonp, helidon-dbclient-mongodb, helidon-graal-
native-image-extension, helidon-lra-coordinator-server, helidon-media-jsonb,
 helidon-media-jsonp, helidon-microprofile-server, helidon-mp-graal-native-
image-extension, helidon-openapi, helidon-security-jwt]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Eclipse Parsson (org.eclipse.parsson:parsson)
  Copyright (c) 2011,2022 Oracle and/or its affiliates. All rights reserved.
---------------------------------------------
# Notices for Jakarta JSON Processing

This content is produced and maintained by the Jakarta JSON Processing
 project.

* Project home: https://projects.eclipse.org/projects/ee4j.jsonp

## Trademarks

 Jakarta JSON Processing is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses
```

```
This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License v2.0 w/Classpath exception which is available at
https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jsonp
---------------------------------------------
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE
--------------------------------------------------------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"Jakarta JSON Processing API" (jakarta.json:jakarta.json-api)
  Copyright (c) 2011,2022 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2021 Eclipse Foundation. All rights reserved.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------

=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Eclipse Yasson  Eclipse Foundation
Multiple Licenses
Used by: [helidon-media-jsonb, helidon-microprofile, helidon-openapi]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Eclipse Yasson
org.eclipse.yasson (org.eclipse:yasson)
  Copyright (c) 2019,2021 Payara Foundation and/or its affiliates. All
 rights reserved.
  Copyright (c) 2015,2022 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2019,2020 Payara Services and/or its affiliates. All rights
 reserved.
  Copyright (c) 2019,2021 IBM and/or its affiliates. All rights reserved.

Multi License: Eclipse Public License - v 2.0, Eclipse Distribution License
 - v 1.0

# Notices for Eclipse Yasson

This content is produced and maintained by the Eclipse Yasson project.

    Project home: https://projects.eclipse.org/projects/ee4j.yasson

## Trademarks

Eclipse Yasson is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
For more information regarding authorship of content, please consult
the listed source code repository logs.
```

```
## Declared Project Licenses

This program and the accompanying materials are made available under the
terms of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-v20.html, or the
Eclipse Distribution License v. 1.0 which is available at
http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: EPL-2.0 OR BSD-3-Clause

## Source Code

The project maintains the following source code repositories:

    https://github.com/eclipse/yasson
    https://github.com/eclipse-ee4j/yasson

## Cryptography

Content may contain encryption software. The country in which you
are currently may have restrictions on the import, possession, and
use, and/or re-export to another country, of encryption software.
BEFORE using any encryption software, please check the country's
laws, regulations and policies concerning the import, possession,
or use, and re-export of encryption software, to see if this is permitted.

---------------------------------------------
See full text at the bottom of this document for license: EPL-2.0
---------------------------------------------

Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

- Neither the name of the Eclipse Foundation, Inc. nor the
  names of its contributors may be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
```

```
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"JSON-B API" (jakarta.json.bind:jakarta.json.bind-api)
  Copyright (c) 2015,2019 Oracle and/or its affiliates. All rights reserved.
  Copyright 2019 Eclipse Foundation. All Rights Reserved.
  Multi License: Eclipse Public License - v 2.0, GPL Version 2 + CPE
---------------------------------------------
"JSON-P API" (jakarta.json-api:jakarta.json-api)
  Copyright (c) 2011, 2019 Oracle and/or its affiliates. All rights
 reserved.
  Copyright (c) 2019 Eclipse Foundation.
  Multi License: Eclipse Public License - v 2.0, GPL Version 2 + CPE
---------------------------------------------
"JSON-P Default Provider" (org.glassfish:jakarta.json)
  Copyright (c) 2011,2019 Oracle and/or its affiliates. All rights reserved.
  Multi License: Eclipse Public License - v 2.0, GPL Version 2 + CPE
---------------------------------------------
See full text at the bottom of this document for license: GPLv2-CPE

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
HikariCP  Brett Woolridge
Apache 2.0
Used by: [helidon-dbclient-jdbc, helidon-dbclient-metrics-jdbc, helidon-
integrations-cdi-datasource-hikaricp]
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
HikariCP (com.zaxxer:HikariCP)
  Copyright (C) 2013,2019 Brett Wooldridge

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
---------------------------------------------
See full text at the bottom of this document for license: Apache-2.0
---------------------------------------------
Fourth Party Runtime Dependencies
---------------------------------------------
"SLF4J API Module" (org.slf4j:slf4j-api)
  Copyright (c) 2004-2019 QOS.ch

The MIT License SPDX short identifier: MIT

Further resources on the MIT License Copyright

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
```

```
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------------------
=====================================================================================
==
Jakarta Activation API (JAF)  Eclipse Foundation
Eclipse Distribution License 1.0
Used by: [helidon-integrations-cdi-jpa, helidon-integrations-micrometer-cdi,
 helidon-microprofile-fault-tolerance, helidon-microprofile-grpc-server,
 helidon-microprofile-metrics, helidon-microprofile-tracing, helidon-
service-common-rest-cdi]
=====================================================================================
==
Jakarta Activation API jar (jakarta.activation:jakarta.activation-api)
  Copyright (c) 1997,2021 Oracle and/or its affiliates. All rights reserved.

# Notices for Jakarta Activation

This content is produced and maintained by Jakarta Activation project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaf

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Distribution License v. 1.0,
which is available at http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaf
---------------------------------------------
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
```

```
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------

=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
Jakarta Annotations API  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-bundles-config, helidon-common-service-loader, helidon-
config, helidon-config-hocon, helidon-config-mp, helidon-config-tests-
module-mappers-1-base, helidon-config-tests-module-mappers-2-override,
 helidon-config-tests-module-parsers-1-override, helidon-config-tests-test-
bundle, helidon-config-yaml, helidon-config-yaml-mp, helidon-grpc-core,
 helidon-integrations-cdi-datasource, helidon-integrations-cdi-datasource-
hikaricp, helidon-integrations-cdi-datasource-ucp, helidon-integrations-
cdi-jpa, helidon-integrations-cdi-jta, helidon-integrations-micronaut-
cdi-processor, helidon-integrations-micronaut-data, helidon-integrations-
microstream-cdi, helidon-jersey-client, helidon-messaging-mock, helidon-
microprofile-fault-tolerance, weld-se-core]
=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
1.  The follow files are available in source code form under the Eclipse
 Public License at:
    https://github.com/eclipse-ee4j/common-annotations-api (The EPL license
 is reproduced below).
2.  All past Contributors to the Jakarta Annotations API disclaim all
 warranties and
    conditions, express and implied, including warranties or conditions of
 title and
    non-infringement, and implied warranties or conditions of
 merchantability and
    fitness for a particular purpose.  In addition, such Contributors are
 not liable
    for any damages, including direct, indirect, special, incidental and
 consequential
    damages, such as lost profits.
3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public
    License are offered by Oracle alone and not by any other party.


_____________________________________________
```

```
common-annotations-api 2.0.0

################################

# Notices for Jakarta Annotations

This content is produced and maintained by the Jakarta Annotations project.

 * Project home: https://projects.eclipse.org/projects/ee4j.ca

## Trademarks

Jakarta Annotations is a trademark of the Eclipse Foundation.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

 * https://github.com/eclipse-ee4j/common-annotations-api

## Third-party Content

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

################################

#
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE
---

##
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
Jakarta Dependency Injection API  Eclipse Foundation
Apache 2.0
Used by: [helidon-grpc-core, helidon-integrations-cdi-datasource-
hikaricp, helidon-integrations-cdi-datasource-ucp, helidon-integrations-
```

```
cdi-hibernate, helidon-integrations-micronaut-cdi-processor, helidon-
jersey-client, helidon-jersey-connector, helidon-jersey-server, helidon-
microprofile-config, helidon-security-integration-jersey, helidon-security-
integration-jersey-client, helidon-security-providers-oidc, weld-se-core]
=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
injection-api 2.0

###############################

# Notices for Eclipse Jakarta Dependency Injection

This content is produced and maintained by the Eclipse Jakarta Dependency
 Injection project.

* Project home: https://projects.eclipse.org/projects/cdi.batch

## Trademarks

Jakarta Dependency Injection is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License, Version 2.0 which is available at
https://www.apache.org/licenses/LICENSE-2.0.

SPDX-License-Identifier: Apache-2.0

## Source Code

The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

None

################################
See full text at the bottom of this document for license: Apache-2.0

=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
Jakarta Expression Language API (EL API)  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-security-abac-policy-el, weld-se-core]
```

```
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=

1.  The follow files are available in source code form under the Eclipse
 Public License at:
    https://github.com/eclipse-ee4j/el-ri/ (The EPL license is reproduced
 below).
2.  All past Contributors to the Jakarta EL disclaim all warranties and
    conditions, express and implied, including warranties or conditions of
 title and
    non-infringement, and implied warranties or conditions of
 merchantability and
    fitness for a particular purpose.  In addition, such Contributors are
 not liable
    for any damages, including direct, indirect, special, incidental and
 consequential
    damages, such as lost profits.
3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public
    License are offered by Oracle alone and not by any other party.


_____________________________________________

Jakarta Expression Language API (jakarta.el:jakarta.el-api)
  Copyright 2018, 2020 Eclipse Foundation. All rights reserved.
  Copyright (c) 1997,2020 Oracle and/or its affiliates and others.
  Copyright 2004 The Apache Software Foundation
---------------------------------------------
This content is produced and maintained by the Jakarta Expression Language
 project.

* Project home: https://projects.eclipse.org/projects/ee4j.el

## Trademarks

Jakarta Expression Language is a trademark of the Eclipse
Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:
```

```
* https://github.com/eclipse-ee4j/el-ri
-----------------------------------------------------------------------------
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE
-----------------------------------------------------------------------------------------------
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
Jakarta Interceptors API  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-microprofile-access-log, helidon-microprofile-jwt-
auth, helidon-microprofile-messaging, helidon-microprofile-openapi,
 helidon-microprofile-scheduling, helidon-microprofile-security, helidon-
microprofile-server, weld-se-core]
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
1.  The follow files are available in source code form under the Eclipse
 Public License at:
     https://github.com/eclipse-ee4j/interceptor-api (The EPL license is
 reproduced below).
2.  All past Contributors to the Jakarta Interceptors API disclaim all
 warranties and
    conditions, express and implied, including warranties or conditions of
 title and
    non-infringement, and implied warranties or conditions of
 merchantability and
    fitness for a particular purpose.  In addition, such Contributors are
 not liable
    for any damages, including direct, indirect, special, incidental and
 consequential
    damages, such as lost profits.
3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public
    License are offered by Oracle alone and not by any other party.


_____________________________________________

Jakarta Interceptors (jakarta.interceptor:jakarta.interceptor-api)
  Copyright (c) 1997,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright 2019, 2020 Eclipse Foundation. All rights reserved.<br>
---------------------------------------------
# Notices for Eclipse Project for Interceptors

This content is produced and maintained by the Eclipse Project for
 Interceptors
project.

* Project home: https://projects.eclipse.org/projects/ee4j.interceptors

## Trademarks

Eclipse Project for Interceptors is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
```

```
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/interceptor-api
--------------------------------------------
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE
----------------------------------------------------------------------------------------
Fourth Party Dependencies
--------------------------------------------
"Jakarta Annotations API" (jakarta.annotation:jakarta.annotation-api)
  Copyright 2019, 2020 Eclipse Foundation. All rights reserved.<br>
  Copyright (c) 2005,2020 Oracle and/or its affiliates. All rights reserved.

  This program and the accompanying materials are made available under the
  terms of the Eclipse Public License v. 2.0 which is available at
  http://www.eclipse.org/legal/epl-2.0. This Source Code may also be
  made available under the following Secondary Licenses when the conditions
  for such availability set forth in the Eclipse Public License v. 2.0 are
 satisfied:
  GNU General Public License, version 2 with the GNU Classpath Exception
  which is available at https://www.gnu.org/software/classpath/license.html.

  SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
--------------------------------------------

=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Jakarta Json Processing API (JSON-P)  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-media-jsonp, helidon-microprofile-server, helidon-openapi,
 helidon-security-jwt]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
1.  The follow files are available in source code form under the Eclipse
 Public License at:
    https://github.com/eclipse-ee4j/jsonp/api (The EPL license is reproduced
 below).
2.  All past Contributors to the Jakarta JSON Process API disclaim all
 warranties and
    conditions, express and implied, including warranties or conditions of
 title and
    non-infringement, and implied warranties or conditions of
 merchantability and
    fitness for a particular purpose.  In addition, such Contributors are
 not liable
    for any damages, including direct, indirect, special, incidental and
 consequential
    damages, such as lost profits.
3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public
    License are offered by Oracle alone and not by any other party.
```

```
_____________________________________________________

Jakarta JSON Processing API (JSON-P) (jakarta.json:jakarta.json-api)
  Copyright  2019 Eclipse Foundation. All rights reserved.
  Copyright (c) 2011,2021 Oracle and/or its affiliates. All rights reserved.
--------------------------------------------
This content is produced and maintained by the Eclipse Project for JSON
Processing project.

* Project home: https://projects.eclipse.org/projects/ee4j.jsonp

## Trademarks

Jakarta JSON Processing is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jsonp

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------------------
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE
--------------------------------------------------------------------------------------------
Fourth Party Dependencies
--------------------------------------------
"Jakarta Annotations API" (jakarta.annotation:jakarta.annotation-api)
  Copyright (c) 2005,2020 Oracle and/or its affiliates. All rights reserved.
```

```
  Copyright 2019 Eclipse Foundation. All rights reserved.<br>
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"jakarta.ws.rs-api" (jakarta.ws.rs:jakarta.ws.rs-api)
  Copyright (c) 2010,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2006 Google Inc.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"jakarta.json" (org.glassfish,jakarta.json)
  Copyright  2019 Eclipse Foundation. All rights reserved.
  Copyright (c) 2011,2021 Oracle and/or its affiliates. All rights reserved.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------

=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
Jakarta Messaging API (JMS API)  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-health-checks, helidon-health-common, helidon-
integrations-cdi-datasource, helidon-integrations-cdi-datasource-hikaricp,
 helidon-integrations-cdi-datasource-ucp, helidon-integrations-cdi-
delegates, helidon-integrations-cdi-eclipselink, helidon-integrations-
cdi-hibernate, helidon-integrations-cdi-jedis, helidon-integrations-
cdi-jpa, helidon-integrations-cdi-jta, helidon-integrations-cdi-jta-
weld, helidon-integrations-cdi-reference-counted-context, helidon-
integrations-micrometer-cdi, helidon-integrations-micronaut-cdi, helidon-
integrations-micronaut-data, helidon-integrations-microstream-cdi,
 helidon-integrations-neo4j, helidon-integrations-neo4j-health, helidon-
integrations-neo4j-metrics, helidon-integrations-oci-sdk-cdi, helidon-
integrations-vault-cdi, helidon-jersey-client, helidon-messaging-aq,
 helidon-messaging-jms, helidon-messaging-jms-shim, helidon-messaging-kafka,
 helidon-messaging-mock, helidon-microprofile-bean-validation, helidon-
microprofile-config, helidon-microprofile-cors, helidon-microprofile-
fault-tolerance, helidon-microprofile-grpc-client, helidon-microprofile-
grpc-core, helidon-microprofile-grpc-metrics, helidon-microprofile-grpc-
server, helidon-microprofile-metrics, helidon-microprofile-rest-client,
 helidon-microprofile-server, helidon-microprofile-tracing, helidon-
microprofile-websocket, helidon-security-integration-jersey, helidon-
security-integration-jersey-client, helidon-service-common-rest-cdi, weld-
se-core]
=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
1.  The follow files are available in source code form under the Eclipse
 Public License at:
    https://github.com/jakartaee/messaging.  (The EPL license is reproduced
 below).
2.  All past Contributors to Jakarta Messaging API disclaim all warranties
 and conditions, express and
    implied, including warranties or conditions of title and non-
infringement, and
    implied warranties or conditions of merchantability and fitness for a
 particular
    purpose.  In addition, such Contributors are not liable for any damages,
    including direct, indirect, special, incidental and consequential
 damages,
    such as lost profits.
3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License
    are offered by Oracle alone and not by any other party.


_____________________________________________________

Jakarta Messaging API (jakarta.jms:jakarta.jms-api)
  Copyright 2019 Eclipse Foundation. All rights reserved.
```

```
  Copyright (c) 1997,2018 Oracle and/or its affiliates. All rights reserved.
--------------------------------------------
This content is produced and maintained by the Jakarta Messaging project.

* Project home: https://projects.eclipse.org/projects/ee4j.messaging

## Trademarks

Eclipse Project for JMS is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/messaging
* https://github.com/eclipse-ee4j/messaging-propsals
--------------------------------------------
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE
----------------------------------------------------------------------------------------------
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Jakarta Persistence API (JPA API)  Eclipse Foundation
Multiple Licenses
Used by: [helidon-integrations-cdi-hibernate, helidon-integrations-cdi-jpa]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Jakarta Persistence API (JPA) (jakarta.persistence:jakarta.persistence-api)
  Copyright (c) 2008,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright 2020 Eclipse Foundation. All rights reserved.
--------------------------------------------
This content is produced and maintained by the Jakarta Persistence
project.

* Project home: https://projects.eclipse.org/projects/ee4j.jpa

## Trademarks

 Jakarta Persistence is a trademark of the Eclipse Foundation.

## Copyright
```

```
All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0, or the Eclipse Distribution License v.
 1.0
which is available at http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: EPL-2.0 OR BSD-3-Clause

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jpa-api

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
----------------------------------------------
See full text at the bottom of this document for license: EPL-2.0
----------------------------------------------------------------------
Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

- Neither the name of the Eclipse Foundation, Inc. nor the
  names of its contributors may be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
```

```
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
Jakarta Transactions API (JTA API)  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-integrations-cdi-eclipselink, helidon-integrations-cdi-
hibernate, helidon-integrations-cdi-jpa, helidon-integrations-cdi-jta,
 helidon-integrations-cdi-jta-weld, helidon-integrations-jta-jdbc, helidon-
messaging-aq]
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
1.  The follow files are available in source code form under the Eclipse
 Public License at:
    https://github.com/eclipse-ee4j/jta-api (The EPL license is reproduced
 below).
2.  All past Contributors to Jakarta Transactions API disclaim all
 warranties and
    conditions, express and implied, including warranties or conditions of
 title and
    non-infringement, and implied warranties or conditions of
 merchantability and
    fitness for a particular purpose.  In addition, such Contributors are
 not liable
    for any damages, including direct, indirect, special, incidental and
 consequential
    damages, such as lost profits.
3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public
    License are offered by Oracle alone and not by any other party.


_____________________________________________________

jakarta.transaction API (jakarta.transaction:jakarta.transaction-api)
  Copyright (c) 1997,2020 Oracle and/or its affiliates. All rights reserved.

# Notices for Jakarta Transactions

This content is produced and maintained by the Jakarta Transactions project.

* Project home: https://projects.eclipse.org/projects/ee4j.jta

## Trademarks

Jakarta Transactions is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses
```

```
This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jta-api

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

-----------------------------------------------------------------------
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE
-----------------------------------------------------------------------------------------------
Fourth Party Dependencies
---------------------------------------------
Jakarta Contexts and Dependency Injection API (CDI API)
 (jakarta.enterprise:jakarta.enterprise.cdi-api)
  Copyright 2010, 2016, Red Hat, Inc., and individual contributors
  Copyright 2008,2018 Red Hat, Inc., and individual contributors
  Copyright  2019 Eclipse Foundation.
  Copyright 2010,2013 2015, Red Hat, Inc., and individual contributors
  Apache License Version 2.0
---------------------------------------------
See full text at the bottom of this document for license: Apache-2.0
---------------------------------------------
Jakarta Interceptors (jakarta.interceptor:jakarta.interceptor-api)
  Copyright (c) 1997,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright 2019, 2020 Eclipse Foundation. All rights reserved.
---------------------------------------------

# Notices for Eclipse Project for Interceptors

This content is produced and maintained by the Eclipse Project for
 Interceptors
project.
```

```
* Project home: https://projects.eclipse.org/projects/ee4j.interceptors

## Trademarks

Eclipse Project for Interceptors is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/interceptor-api
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Jakarta XML Binding API (JAXB)  Eclipse Foundation
Eclipse Distribution License 1.0
Used by: [helidon-integrations-cdi-jpa, helidon-jersey-client, helidon-
jersey-connector, helidon-jersey-server, helidon-microprofile-bean-
validation, helidon-security-integration-jersey]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Jakarta XML Binding API (jakarta.xml.bind:jakarta.xml.bind-api)
  Copyright 2019, 2021 Eclipse Foundation. All rights reserved.
  Copyright (c) 2003,2021 Oracle and/or its affiliates. All rights reserved.

This content is produced and maintained by Jakarta Activation project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaf

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Distribution License v. 1.0,
which is available at http://www.eclipse.org/org/documents/edl-v10.php.
```

```
SPDX-License-Identifier: BSD-3-Clause

## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaf
---------------------------------------------
Eclipse Distribution License - v 1.0 Copyright (c) 2007, Eclipse Foundation,
Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list
of conditions and the following disclaimer. Redistributions in binary form
 must
reproduce the above copyright notice, this list of conditions and the
 following
disclaimer in the documentation and/or other materials provided with the
distribution. Neither the name of the Eclipse Foundation, Inc. nor the names
 of
its contributors may be used to endorse or promote products derived from
 this
software without specific prior written permission. THIS SOFTWARE IS
 PROVIDED BY
THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
 OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"Jakarta Activation" (com.sun.activation:jakarta.activation)
  Copyright (c) 1997,2021 Oracle and/or its affiliates. All rights reserved.

  This program and the accompanying materials are made available under the
 terms
  of the Eclipse Distribution License v. 1.0, which is available at
  http://www.eclipse.org/org/documents/edl-v10.php.

  SPDX-License-Identifier: BSD-3-Clause
---------------------------------------------

=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
MicroProfile Config API  Eclipse Foundation
Apache 2.0
```

```
Used by: [helidon-config-hocon-mp, helidon-config-mp, helidon-config-yaml-
mp, helidon-health-checks, helidon-integrations-cdi-datasource, helidon-
integrations-cdi-datasource-hikaricp, helidon-integrations-cdi-datasource-
ucp, helidon-integrations-cdi-jedis, helidon-integrations-micronaut-cdi,
 helidon-integrations-oci-sdk-cdi, helidon-integrations-vault-cdi, helidon-
messaging-mock, helidon-microprofile-cdi, helidon-microprofile-fault-
tolerance, helidon-microprofile-health, helidon-microprofile-openapi,
 helidon-service-common-rest-cdi]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=
==
MicroProfile Config API (org.eclipse.microprofile.config:microprofile-
config-api)
  Copyright (c) 2009-2020 Contributors to the Eclipse Foundation
-------------------------------------------
==========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for Microprofile Config                  ==
==========================================================================

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
* Apache DeltaSpike Config
  https://deltaspike.apache.org
  under Apache License, v2.0

SPDXVersion: SPDX-2.1
PackageName: Eclipse Microprofile
PackageHomePage: http://www.eclipse.org/microprofile
PackageLicenseDeclared: Apache-2.0

PackageCopyrightText: <text>
Mark Struberg struberg@apache.org,
Gerhard Petracek gpetracek@apache.org,
Romain Manni-Bucau rmannibucau@apache.org,
Ron Smeral rsmeral@apache.org,
Emily Jiang emijiang@uk.ibm.com,
Ondrej Mihalyi ondrej.mihalyi@gmail.com,
Gunnar Morling gunnar@hibernate.org
</text>
-------------------------------------------
See full text at the bottom of this document for license: Apache-2.0

=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=
==
MicroProfile Health API  Eclipse Foundation
Apache 2.0
Used by: [helidon-health, helidon-integrations-neo4j-health, helidon-
microprofile-health]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=
==
MicroProfile Health API (org.eclipse.microprofile.health:microprofile-
health-api)
  Copyright (c) 2017-2021 Contributors to the Eclipse Foundation
-------------------------------------------
==========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for Microprofile Health                  ==
==========================================================================

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
SPDXVersion: SPDX-2.1
PackageName: Eclipse Microprofile
PackageHomePage: http://www.eclipse.org/microprofile
PackageLicenseDeclared: Apache-2.0

PackageCopyrightText: <text>
Heiko Braun hbraun@redhat.com
</text>
--------------------------------------------
See full text at the bottom of this document for license: Apache-2.0

=-=-=-
```

```
LGPL v.2.1
Used by: [helidon-integrations-cdi-jta, helidon-integrations-cdi-jta-weld]
=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
You are receiving a copy of Narayana Transaction Processing in both source
 and
object code in the following JAR (org.jboss.narayana.jta;cdi.jar). The terms
 of
the Oracle license do NOT apply to the Narayana Transaction Processing
 program;
it is licensed under the following license, separately from the Oracle
 programs
you receive.


_____________________________________________

Written Offer for Source Code
For third party technology that you receive from Oracle in binary form
 which is licensed under an open source license that gives you the right
 to receive the source code for that binary, you can obtain a copy of the
 applicable source code from this page:
http://www.oracle.com/goto/opensourcecode
If the source code for the technology was not provided to you with the
 binary, you can also receive a copy of the source code on physical media by
 submitting a written request to:
Oracle America, Inc.
Attn: Associate General Counsel,
Development and Engineering Legal
500 Oracle Parkway, 10th Floor
Redwood Shores, CA 94065
Or, you may send an email to Oracle using the form at:
http://www.oracle.com/goto/opensourcecode/request
Your request should include:
•         The name of the component or binary file(s) for which you are
 requesting the source code
•         The name and version number of the Oracle product containing the
 binary
•         The date you received the Oracle product
•         Your name
•         Your company name (if applicable)
•         Your return mailing address and email and
•         A telephone number in the event we need to reach you.
We may charge you a fee to cover the cost of physical media and processing.
 Your request must be sent (i) within three (3) years of the date you
 received the Oracle product that included the component or binary file(s)
 that are the subject of your request, or (ii) in the case of code licensed
 under the GPL v3, for as long as Oracle offers spare parts or customer
 support for that product model.

Narayana: ArjunaJTA cdi (org.jboss.narayana.jta:cdi)
  Copyright 2013,2021 Red Hat, Inc., and individual contributors
  Copyright 2013- 2019, Red Hat, Inc., and individual contributors
  Copyright 2013- 2018, Red Hat, Inc., and individual contributors
  Copyright 2020, Red Hat, Inc.

JBoss, Home of Professional Open Source
Copyright 2006, Red Hat Middleware LLC, and individual contributors
as indicated by the @author tags.
See the copyright.txt in the distribution for a
full listing of individual contributors.
This copyrighted material is made available to anyone wishing to use,
modify, copy, or redistribute it subject to the terms and conditions
of the GNU Lesser General Public License, v. 2.1.
```

```
This program is distributed in the hope that it will be useful, but WITHOUT
 A
WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS
 FOR A
PARTICULAR PURPOSE.  See the GNU Lesser General Public License for more
 details.
You should have received a copy of the GNU Lesser General Public License,
v.2.1 along with this distribution; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
---------------------------------------------
See full text at the bottom of this document for license: LGPL-2.1-only
---------------------------------------------
Fourth Party Runtime Dependencies
---------------------------------------------
"Narayana: ArjunaJTA jta" (org.jboss.narayana.jta:jta)
  Copyright (C) 1998, 1999, 2000, 2001, 2002, 2003 Arjuna Technologies Ltd.
  Copyright 2010,2020 Red Hat, Inc. and/or its affiliates,
  Copyright (C) 2005 Arjuna Technologies Ltd,
  Copyright (C) 2004 Arjuna Technologies Ltd,
  Copyright 2006,2016 Red Hat Middleware LLC, and individual contributors
  Copyright 2005,2006 JBoss Inc.
  LGPL 2.1
---------------------------------------------
"Narayana: common" (org.jboss.narayana:common)
  Copyright (C) 1998, 1999, 2000, 2001, 2002, 2003 Arjuna Technologies Ltd.
  Copyright 2006,2009 Red Hat Middleware LLC, and individual contributors
  Copyright 2010, Red Hat, Inc. and/or its affiliates,
  Copyright 2014, Red Hat, Inc., and individual contributors
  Copyright 2005, JBoss Inc., and individual contributors as indicated
  LGPL 2.1
---------------------------------------------
"Narayana: ArjunaCore arjuna" (org.jboss.narayana.arjunacore:arjuna)
  Copyright (C) 1999-2001 by HP Bluestone Software, Inc. All rights
 Reserved.
  Copyright (c) 2001 Hewlett-Packard Company
  Copyright (C) 1998, 1999, 2000, 2001, 2002, 2003, 2004  Arjuna
 Technologies Ltd.
  Copyright (C) 1998, 1999, 2000-2009,  Arjuna Technologies Ltd.
  Copyright 2006,2019 Red Hat Middleware LLC, and individual contributors
  Copyright 2013,2018 Red Hat, Inc., and individual contributors
  Copyright 2010,2021 Red Hat, Inc. and/or its affiliates,
  LGPL 2.1
---------------------------------------------
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=
=-=
Simple Logging Facade for Java (SLF4J)  QOS.ch
MIT
Used by: [helidon-integrations-oci-sdk-cdi, helidon-logging-slf4j, helidon-
lra-coordinator-server, helidon-messaging-kafka, helidon-microprofile-grpc-
metrics, helidon-microprofile-grpc-server, helidon-tracing-jaeger]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=
=-=
Simple Logging Facade for Java (SLF4J )

Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:
```

```
The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



************************************
Modules:
************************************

slf4j-api
slf4j-simple
slf4j-nop
slf4j-jdk14
slf4j-log4j12
slf4j-ext
jcl-over-slf4j
log4j-over-slf4j
jul-to-slf4j
osgi-over-slf4j
integration
slf4j-site
slf4j-migrator



************************************
4P Dependencies:
************************************

=== This dependency is only used in slf4j-ext

ch.qos.cal10n call0n-api
COPYRIGHT and LICENSE:
Copyright (c) 2009 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
---

=== This dependency is only used in limited subcomponents (e.g.: slf4j-
log4j12, log4j-over-slf4j, some others)

Apache Log4j
COPYRIGHT: Copyright 2010 The Apache Software Foundation
LICENSE:
See full text at the bottom of this document for license: Apache-2.0
Apache log4j
Copyright 2010 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

=====-=-=-=
```

```
---------------------------------------------
See full text at the bottom of this document for license: Apache-2.0
---------------------------------------------
Fourth Party Depenencies
---------------------------------------------
"CDI APIs" (jakarta.enterprise:jakarta.enterprise.cdi-api)
  Copyright 2010, 2016, Red Hat, Inc., and individual contributors
  Copyright 2008,2018 Red Hat, Inc., and individual contributors
  Copyright (c) 2018,2020 Eclipse Foundation.
  Copyright 2010,2013 2015, Red Hat, Inc., and individual contributors
  Apache License Version 2.0

# Notices for Jakarta Contexts and Dependency Injection

This content is produced and maintained by the Jakarta Contexts and
 Dependency Injection
project.

* Project home: https://projects.eclipse.org/projects/ee4j.cdi

## Trademarks

Jakarta Contexts and Dependency Injection is a trademark of the Eclipse
 Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Apache License v. 2.0 which is available at
http://www.apache.org/licenses/LICENSE-2.0

SPDX-License-Identifier: Apache-2.0
---------------------------------------------

=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Weld SE (Core)  Red Hat, Inc.
Apache 2.0
Used by: [helidon-integrations-cdi-jta-weld, weld-core-impl, weld-se-core]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Weld SE (Core)
  Copyright 2008- 2019, Red Hat, Inc., and individual contributors
  Copyright 2008,2021 Red Hat, Inc., and individual contributors
  Copyright 2009,2018 Red Hat, Inc. and/or its affiliates, and individual
  Copyright 2008, Red Hat, Inc. and/or its affiliates, and individual
 contributors
---------------------------------------------
JBoss, Home of Professional Open Source
Copyright 2008, Red Hat, Inc., and individual contributors
by the @authors tag. See the copyright.txt in the distribution for a
full listing of individual contributors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------------------
See full text at the bottom of this document for license: Apache-2.0
---------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"CDI APIs" (jakarta.enterprise:jakarta.enterprise.cdi-api)
  Copyright 2010, 2016, Red Hat, Inc., and individual contributors
  Copyright 2008,2018 Red Hat, Inc., and individual contributors
  Copyright (c) 2018,2020 Eclipse Foundation.
  Copyright 2010,2013 2015, Red Hat, Inc., and individual contributors
  Apache License 2.0

  This program and the accompanying materials are made available under the
 terms
  of the Apache License, Version 2.0 which is available at
  https://www.apache.org/licenses/LICENSE-2.0.
---------------------------------------------
"Weld APIs" (org.jboss.weld:weld-api)
  Copyright 2008,2018 Red Hat, Inc., and individual contributors
  Copyright 2016, Red Hat, Inc. and/or its affiliates, and individual
  Apache License 2.0
---------------------------------------------
"Jakarta Dependency Injection" (jakarta.inject:jakarta.inject-api)
  Copyright (C) 2009 The JSR-330 Expert Group
  Copyright (c) 2018,2020 Eclipse Foundation.
  Apache License 2.0

  This program and the accompanying materials are made available under the
 terms
  of the Apache License, Version 2.0 which is available at
  https://www.apache.org/licenses/LICENSE-2.0.
---------------------------------------------
"Weld SPIs for container integration" (org.jboss.weld:weld-spi)
  Copyright 2008, Red Hat, Inc. and/or its affiliates, and individual
 contributors
  Copyright 2010,2019 Red Hat, Inc., and individual contributors
  Apache License 2.0
---------------------------------------------
"classfilewriter" (org.jboss.classfilewriter:jboss-classfilewriter)
  Copyright 2012,2019 Red Hat, Inc.
  Copyright 2015, Red Hat, Inc., and individual contributors
  Apache License 2.0
---------------------------------------------
"JBoss Logging 3" (org.jboss.logging:jboss-logging)
  Copyright 2010,2011 Red Hat, Inc., and individual contributors
  Copyright 2010,2019 Red Hat, Inc.
  Apache License 2.0
---------------------------------------------
"Jakarta Annotations API" (jakarta.annotation:jakarta.annotation-api)
  Copyright (c) 2019, 2020 Eclipse Foundation. All rights reserved.
  Copyright (c) 2005,2020 Oracle and/or its affiliates. All rights reserved.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"Jakarta Expression Language API" (jakarta.el:jakarta.el-api)
  Copyright (c) 2018, 2020 Eclipse Foundation. All rights reserved.
  Copyright (c) 1997,2020 Oracle and/or its affiliates and others.
  Copyright 2004 The Apache Software Foundation
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
```

```
---------------------------------------------
"Jakarta Interceptors" (jakarta.interceptor:jakarta.interceptor-api)
  Copyright (c) 1997,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2019, 2020 Eclipse Foundation. All rights reserved.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE

=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
hibernate-core  Red Hat Middleware LLC
LGPL v.2.1
Used by: [helidon-integrations-cdi-hibernate]
=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
Hibernate ORM - hibernate-core (org.hibernate.orm:hibernate-core)
  Copyright (c) 2001-2021 Red Hat, Inc. All Rights Reserved.
  Copyright (c) 2008, Red Hat Middleware LLC or third-party contributors
  indicated by the @author tags or express copyright attribution
  statements applied by the authors.  All third-party contributions are
  distributed under license by Red Hat Inc.

  This copyrighted material is made available to anyone wishing to use,
 modify,
  copy, or redistribute it subject to the terms and conditions of the GNU
  Lesser General Public License, as published by the Free Software
 Foundation.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
 MERCHANTABILITY
  or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU Lesser General Public
 License
  for more details.
---------------------------------------------

GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                             Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
```

```
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
```

```
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
```

```
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.
```

```
  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
```

```
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.
```

```
  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.
```

```
  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                     END OF TERMS AND CONDITIONS


---------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"Hibernate Commons Annotations" (org.hibernate.common:hibernate-commons-
annotations)
  Copyright (c) 2001-2021 Red Hat, Inc. All Rights Reserved.
  Copyright (c) 2008, Red Hat Middleware LLC or third-party contributors
  LGPL 2.1
---------------------------------------------
"ANTLR 4 Runtime" (org.antlr:antlr4-runtime)
  Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
  The BSD License

Copyright (c) 2012 Terence Parr and Sam Harwell
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the <organization> nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------
"Jakarta Persistence API" (jakarta.persistence:jakarta.persistence-api)
  Copyright &#169; 2019, 2020 Eclipse Foundation. All rights reserved.<br>
  Copyright (c) 2008,2020 Oracle and/or its affiliates. All rights reserved.

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0, or the Eclipse Distribution License v.
 1.0
which is available at http://www.eclipse.org/org/documents/edl-v10.php.
---------------------------------------------
Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

- Neither the name of the Eclipse Foundation, Inc. nor the
  names of its contributors may be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------
See full text at the bottom of this document for license: EPL-2.0
---------------------------------------------
"Jakarta Activation" (com.sun.activation:jakarta.activation)
  Copyright (c) 1997,2021 Oracle and/or its affiliates. All rights reserved.
  Eclipse Distribution License v. 1.0
---------------------------------------------
"JAXB Runtime" (org.glassfish.jaxb:jaxb-runtime)
  Copyright (c) 1997,2021 Oracle and/or its affiliates. All rights reserved.
  Eclipse Distribution License v. 1.0
---------------------------------------------
"JAXB Core" (org.glassfish.jaxb:jaxb-core)
  Copyright (c) 1997,2021 Oracle and/or its affiliates. All rights reserved.
  Eclipse Distribution License v. 1.0
---------------------------------------------
"TXW2 Runtime" (org.glassfish.jaxb:txw2)
  Copyright (c) 2005,2021 Oracle and/or its affiliates. All rights reserved.
  Eclipse Distribution License v. 1.0
---------------------------------------------
"istack common utility code runtime" (com.sun.istack:istack-commons-runtime)
  Copyright (c) 1997,2021 Oracle and/or its affiliates. All rights reserved.
  Eclipse Distribution License v. 1.0
---------------------------------------------
"Jakarta XML Binding API" (jakarta.xml.bind:jakarta.xml.bind-api)
  Copyright &#169; 2019, 2021 Eclipse Foundation. All rights reserved.<br>
  Copyright (c) 2003,2021 Oracle and/or its affiliates. All rights reserved.
  Eclipse Distribution License - v 1.0
---------------------------------------------
"jakarta.transaction API" (jakarta.transaction:jakarta.transaction-api)
  Copyright (c) 1997,2020 Oracle and/or its affiliates. All rights reserved.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
"jakarta.transaction API" (jakarta.transaction:jakarta.transaction-api)
  Copyright (c) 1997,2020 Oracle and/or its affiliates. All rights reserved.
  EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
---------------------------------------------
See full text at the bottom of this document for license: GPLv2-CPE
---------------------------------------------
"JBoss Logging 3" (org.jboss.logging:jboss-logging)
  Copyright 2010,2011 Red Hat, Inc., and individual contributors
  Copyright 2010,2019 Red Hat, Inc.
  Apache License 2.0
---------------------------------------------
"Java Annotation Indexer" (org.jboss:jandex)
  Copyright 2013,2021 Red Hat, Inc., and individual contributors
  Apache License 2.0
---------------------------------------------
"ClassMate" (com.fasterxml:classmate)
  Copyright: (C) FasterXML, LLC and Tatu Saloranta
  Apache License 2.0
  Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

  Other developers who have contributed code are:
```

```
  * Brian Langel

  Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this
  file except in compliance with the License. You may obtain a copy of the
 License at

  http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
 distributed under
  the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 CONDITIONS OF
  ANY KIND, either express or implied. See the License for the specific
 language
  governing permissions and limitations under the License.
---------------------------------------------
"Byte Buddy (without dependencies)" (net.bytebuddy:byte-buddy)
  Copyright (c) 2000-2011 INRIA, France Telecom
  Copyright 2014- Present Rafael Winterhalter
  Apache License 2.0
---------------------------------------------
"Jakarta Dependency Injection" (jakarta.inject:jakarta.inject-api)
  Copyright (C) 2009 The JSR-330 Expert Group
  Copyright &#169; 2018,2020 Eclipse Foundation.<br>
  Apache License 2.0
---------------------------------------------
See full text at the bottom of this document for license: Apache-2.0

=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
jandex  Red Hat, Inc and Individual Contributors
Apache 2.0
Used by: [helidon-integrations-cdi-datasource, helidon-integrations-cdi-
datasource-hikaricp, helidon-integrations-cdi-datasource-ucp, helidon-
integrations-cdi-delegates, helidon-integrations-cdi-eclipselink, helidon-
integrations-cdi-hibernate, helidon-integrations-cdi-jedis, helidon-
integrations-cdi-jpa, helidon-integrations-cdi-jta, helidon-integrations-
cdi-reference-counted-context, helidon-integrations-oci-sdk-cdi, helidon-
microprofile-graphql-server, helidon-microprofile-lra, helidon-openapi]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
Java Annotation Indexer (org.jboss:jandex)
  Copyright 2013,2021 Red Hat, Inc., and individual contributors
---------------------------------------------
See full text at the bottom of this document for license: Apache-2.0

=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
jboss-transaction-spi  Red Hat, Inc.
LGPL v.2.1
Used by: [helidon-integrations-cdi-jta]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-
=-=
You are receiving a copy of JBoss Transaction SPI in both source and object
 code
in the following JAR (identify the JAR jboss-transaction-
spi-7.6.0.Final.jar). The
terms of the Oracle license do NOT apply to the JBoss Transaction SPI
 program;
it is licensed under the following license, separately from the Oracle
 programs you receive.
--------------------------------------------------------------------------------
```

```
Written Offer for Source Code
For third party technology that you receive from Oracle in binary form
 which is licensed under an open source license that gives you the right
 to receive the source code for that binary, you can obtain a copy of the
 applicable source code from this page:
http://www.oracle.com/goto/opensourcecode
If the source code for the technology was not provided to you with the
 binary, you can also receive a copy of the source code on physical media by
 submitting a written request to:
Oracle America, Inc.
Attn: Associate General Counsel,
Development and Engineering Legal
500 Oracle Parkway, 10th Floor
Redwood Shores, CA 94065
Or, you may send an email to Oracle using the form at:
http://www.oracle.com/goto/opensourcecode/request
Your request should include:
•         The name of the component or binary file(s) for which you are
 requesting the source code
•         The name and version number of the Oracle product containing the
 binary
•         The date you received the Oracle product
•         Your name
•         Your company name (if applicable)
•         Your return mailing address and email and
•         A telephone number in the event we need to reach you.
We may charge you a fee to cover the cost of physical media and processing.
 Your request must be sent (i) within three (3) years of the date you
 received the Oracle product that included the component or binary file(s)
 that are the subject of your request, or (ii) in the case of code licensed
 under the GPL v3, for as long as Oracle offers spare parts or customer
 support for that product model.

JBoss Transaction SPI (org.jboss:jboss-transaction-spi)
  Copyright 2006,2017 Red Hat Middleware LLC, and individual contributors
  Copyright 2005,2011 JBoss Inc., and individual contributors as indicated
  Copyright 2013, Red Hat Inc., and individual contributors as indicated
  Copyright 2015,2016 Red Hat, Inc., and individual contributors
---------------------------------------------
/*
 * JBoss, Home of Professional Open Source
 * Copyright 2005, Red Hat Inc., and individual contributors as indicated
 * by the @authors tag. See the copyright.txt in the distribution for a
 * full listing of individual contributors.
 *
 * This is free software; you can redistribute it and/or modify it
 * under the terms of the GNU Lesser General Public License as
 * published by the Free Software Foundation; either version 2.1 of
 * the License, or (at your option) any later version.
 *
 * This software is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
 * Lesser General Public License for more details.
 *
 * You should have received a copy of the GNU Lesser General Public
 * License along with this software; if not, write to the Free
 * Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
 * 02110-1301 USA, or see the FSF site: http://www.fsf.org.
 */
---------------------------------------------
See full text at the bottom of this document for license: LGPL-2.1-only
```

```
=====-=-=-=
```

```
---------------------------------------------
"Jakarta Annotations API" (jakarta.annotation:jakarta.annotation-api)
  Copyright (c) 2005,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2019, 2020 Eclipse Foundation. All rights reserved.<br>
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"OSGi resource locator" (org.glassfish.hk2:osgi-resource-locator)
  Copyright (c) 2009,2018 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Jakarta Dependency Injection" (jakarta.inject:jakarta.inject-api)
  Copyright (C) 2009 The JSR-330 Expert Group
  Copyright (c) 2018,2020 Eclipse Foundation.
  Apache License 2.0
---------------------------------------------
See full text at the bottom of this document for license: Apache-2.0

=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
jersey-hk2  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-jersey-client, helidon-jersey-connector, helidon-jersey-
server, helidon-webserver-jersey]
=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
jersey-inject-hk2 (org.glassfish.jersey.inject:jersey-hk2)
  Copyright (c) 2017,2022 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
# Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

*  Project home: https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey
---------------------------------------------
```

```
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE
-----------------------------------------------------------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"jersey-core-common" (org.glassfish.jersey.core:jersey-common)
  Copyright (c) 2007,2022 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2018 Payara Foundation and/or its affiliates.
  Copyright (C) 2006,2014 The Guava Authors
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"jakarta.ws.rs-api" (jakarta.ws.rs:jakarta.ws.rs-api)
  Copyright (c) 2010,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2006 Google Inc.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Jakarta Annotations API" (jakarta.annotation:jakarta.annotation-api)
  Copyright (c) 2005,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2019, 2020 Eclipse Foundation. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"OSGi resource locator" (org.glassfish.hk2:osgi-resource-locator)
  Copyright (c) 2009,2018 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"ServiceLocator Default Implementation" (org.glassfish.hk2:hk2-locator)
  Copyright (c) 2010,2019 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2019, 2020 Payara Service Ltd. and/or its affiliates.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"aopalliance version 1.0 repackaged as a
 module" (org.glassfish.hk2.external:aopalliance-repackaged)
  Copyright (c) 2013,2018 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2019 Payara Services Ltd.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"HK2 API module" (org.glassfish.hk2:hk2-api)
  Copyright (c) 2019,2020 Payara Services Ltd.
  Copyright (c) 2019 Payara Services and/or its affiliates. All rights
 reserved.
  Copyright (c) 2007,2019 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"HK2 Implementation Utilities" (org.glassfish.hk2:hk2-utils)
  Copyright (c) 2019,2020 Payara Services Ltd.
  Copyright (c) 2007,2019 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Jakarta Dependency Injection" (jakarta.inject:jakarta.inject-api)
  Copyright (C) 2009 The JSR-330 Expert Group
  Copyright (c) 2018,2020 Eclipse Foundation.
  Apache License 2.0
---------------------------------------------
"Javassist" (org.javassist:javassist)
  Copyright (C) 1999-2020 by Shigeru Chiba, All rights reserved.
  Copyright (C) 2004 Bill Burke. All Rights Reserved.
  Apache License 2.0
See full text at the bottom of this document for license: Apache-2.0

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
jersey-media-json-processing  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-jersey-media-jsonp]
```

```
=====-=-=-=
```

```
  Copyright (c) 2009,2018 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Jakarta JSON Processing API" (jakarta.json:jakarta.json-api)
  Copyright (c) 2011,2022 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2019,2022 Eclipse Foundation. All rights reserved.<br>
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Eclipse Parsson" (org.eclipse.parsson:parsson)
  Copyright (c) 2011,2022 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Eclipse Parsson Media for Jakarta RESTful Web
 Services" (org.eclipse.parsson:parsson-media)
  Copyright (c) 2012,2022 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Jakarta Dependency Injection" (jakarta.inject:jakarta.inject-api)
  Copyright (C) 2009 The JSR-330 Expert Group
  Copyright (c) 2018,2020 Eclipse Foundation.
  Apache License 2.0
---------------------------------------------
See full text at the bottom of this document for license: Apache-2.0

=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=
=-=
jersey-server  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-jersey-server]
=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=====-=
=-=
jersey-core-server (org.glassfish.jersey.core:jersey-server)
  Copyright (c) 2010,2022 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2000-2011 INRIA, France Telecom
  Copyright (c) 2018 Payara Foundation and/or its affiliates.
  Copyright 2010,2013 Coda Hale and Yammer, Inc.
---------------------------------------------
# Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

*  Project home: https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
```

```
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey
---------------------------------------------
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE
-----------------------------------------------------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"jersey-core-client" (org.glassfish.jersey.core:jersey-client)
  Copyright (c) 2018 Payara Foundation and/or its affiliates. All rights
 reserved.
  Copyright (c) 2018,2019 Payara Foundation and/or its affiliates.
  Copyright (c) 2010,2022 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"jersey-core-common" (org.glassfish.jersey.core:jersey-common)
  Copyright (c) 2007,2022 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2018 Payara Foundation and/or its affiliates.
  Copyright (C) 2006,2014 The Guava Authors
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"OSGi resource locator" (org.glassfish.hk2:osgi-resource-locator)
  Copyright (c) 2009,2018 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"jakarta.ws.rs-api" (jakarta.ws.rs:jakarta.ws.rs-api)
  Copyright (c) 2010,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2006 Google Inc.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Jakarta Annotations API" (jakarta.annotation:jakarta.annotation-api)
  Copyright (c) 2005,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2019, 2020 Eclipse Foundation. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Jakarta Dependency Injection" (jakarta.inject:jakarta.inject-api)
  Copyright (C) 2009 The JSR-330 Expert Group
  Copyright (c) 2018,2020 Eclipse Foundation.
  Apache License 2.0
---------------------------------------------
"Jakarta Bean Validation API" (jakarta.validation:jakarta.validation-api)
  Copyright (c) 2020 Eclipse Foundation.
  Apache License 2.0
  This program and the accompanying materials are made available under the
 terms
  of the Apache License, Version 2.0 which is available at
  https://www.apache.org/licenses/LICENSE-2.0.
---------------------------------------------
See full text at the bottom of this document for license: Apache-2.0
---------------------------------------------

=====================================================================
==
jersey-weld2-se  Eclipse Foundation
Eclipse Public License 2.0 + GPL v.2 with CPE
Used by: [helidon-microprofile-fault-tolerance, helidon-microprofile-server]
=====================================================================
==
jersey-ext-weld2-se (org.glassfish.jersey.ext.cdi:jersey-weld2-se)
```

```
  Copyright (c) 2014,2022 Oracle and/or its affiliates. All rights reserved.
---------------------------------------------
# Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

*  Project home: https://projects.eclipse.org/projects/ee4j.jersey

## Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey
---------------------------------------------
See full text at the bottom of this document for license: EPL-2.0-plus-
GPLv2-CPE
-----------------------------------------------------------------------------------------------
Fourth Party Dependencies
---------------------------------------------
"jersey-core-common" (org.glassfish.jersey.core:jersey-common)
  Copyright (c) 2007,2022 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2018 Payara Foundation and/or its affiliates.
  Copyright (C) 2006,2014 The Guava Authors
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"jersey-core-server" (org.glassfish.jersey.core:jersey-server)
 Copyright (c) 2000-2011 INRIA, France Telecom
 Copyright (c) 2018 Payara Foundation and/or its affiliates.
 Copyright (c) 2010,2022 Oracle and/or its affiliates. All rights reserved.
 Copyright 2010,2013 Coda Hale and Yammer, Inc.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"jersey-core-client" (org.glassfish.jersey.core:jersey-client)
  Copyright (c) 2018 Payara Foundation and/or its affiliates. All rights
 reserved.
  Copyright (c) 2018,2021 Payara Foundation and/or its affiliates.
  Copyright (c) 2010,2021 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"jersey-ext-cdi1x" (org.glassfish.jersey.ext.cdi:jersey-cdi1x)
```

```
  Copyright (c) 2018 Payara Foundation and/or its affiliates. All rights
 reserved.
  Copyright (c) 2013,2022 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"jakarta.ws.rs-api" (jakarta.ws.rs:jakarta.ws.rs-api)
  Copyright (c) 2010,2019 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2006 Google Inc.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Jakarta Expression Language API" (jakarta.el:jakarta.el-api)
  Copyright (c) 2018, 2020 Eclipse Foundation. All rights reserved.
  Copyright (c) 1997,2020 Oracle and/or its affiliates and others.
  Copyright 2004 The Apache Software Foundation
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"Jakarta Interceptors" 2.0.0 (jakarta.interceptor:jakarta.interceptor-api)
  Copyright (c) 1997,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2019, 2020 Eclipse Foundation. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
  "Jakarta Annotations API" (jakarta.annotation:jakarta.annotation-api)
  Copyright (c) 2005,2020 Oracle and/or its affiliates. All rights reserved.
  Copyright (c) 2019,2020 Eclipse Foundation. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"OSGi resource locator" (org.glassfish.hk2:osgi-resource-locator)
  Copyright (c) 2009,2018 Oracle and/or its affiliates. All rights reserved.
  Eclipse Public License 2.0 + GPL v.2 with CPE
---------------------------------------------
"CDI APIs" (jakarta.enterprise:jakarta.enterprise.cdi-api)
  Copyright 2010, 2016, Red Hat, Inc., and individual contributors
  Copyright 2008,2018 Red Hat, Inc., and individual contributors
  Copyright 2018,2020 Eclipse Foundation.
  Copyright 2010,2013 2015, Red Hat, Inc., and individual contributors
  Apache License 2.0
---------------------------------------------
"Jakarta Dependency Injection" 2.0.0 (jakarta.inject:jakarta.inject-api)
  Copyright (C) 2009 The JSR-330 Expert Group
  Copyright (c) 2018,2020 Eclipse Foundation.
  Apache License 2.0
---------------------------------------------
"Jakarta Bean Validation API" (jakarta.validation:jakarta.validation-api)
  Copyright (c) 2019,2020 Eclipse Foundation.
  Apache License 2.0
  This program and the accompanying materials are made available under the
 terms
  of the Apache License, Version 2.0 which is available at
  https://www.apache.org/licenses/LICENSE-2.0.
See full text at the bottom of this document for license: Apache-2.0
---------------------------------------------

=====================================================================
microprofile-openapi-api  Eclipse Foundation
Apache 2.0
Used by: [helidon-openapi]
=====================================================================
MicroProfile OpenAPI API (org.eclipse.microprofile.openapi:microprofile-
openapi-api)
  Copyright 2017 SmartBear Software
  Copyright (c) 2017 Contributors to the Eclipse Foundation
---------------------------------------------
```

```
The majority of this software were originally based on the following:
* Swagger Core
  https://github.com/swagger-api/swagger-core
    under Apache License, v2.0

SPDXVersion: SPDX-2.1
PackageName: Eclipse MicroProfile
PackageHomePage: http://www.eclipse.org/microprofile
PackageLicenseDeclared: Apache-2.0

PackageCopyrightText: <text>
Arthur De Magalhaes arthurdm@ca.ibm.com
</text>
--------------------------------------------
See full text at the bottom of this document for license: Apache-2.0

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
netty  The Netty Project
Apache 2.0
Used by: [helidon-webclient, helidon-webserver, helidon-webserver-http2,
 helidon-webserver-jersey, helidon-webserver-transport-netty-epoll]
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
Netty (io.netty:netty-*)
  Copyright 2012,2021 The Netty Project
  Copyright 2014 Twitter, Inc.
  Copyright (c) 2011, Joe Walnes and contributors
  Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>
  Copyright (c) 2004-2011 QOS.ch
--------------------------------------------
See full text at the bottom of this document for license: Apache-2.0
--------------------------------------------

                            The Netty Project
                            =================

Please visit the Netty web site for more information:

  * https://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:
```

```
  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
```

```
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
(BSD License: https://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.

* Neither the name of the Webbit nor the names of
  its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:
```

```
  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
/*
 * Copyright (c) 2004-2007 QOS.ch
 * All rights reserved.
 *
 * Permission is hereby granted, free  of charge, to any person obtaining
 * a  copy  of this  software  and  associated  documentation files  (the
 * "Software"), to  deal in  the Software without  restriction, including
 * without limitation  the rights to  use, copy, modify,  merge, publish,
 * distribute,  sublicense, and/or sell  copies of  the Software,  and to
 * permit persons to whom the Software  is furnished to do so, subject to
 * the following conditions:
 *
 * The  above  copyright  notice  and  this permission  notice  shall  be
 * included in all copies or substantial portions of the Software.
 *
 * THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 * EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 * MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 * LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 * OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 * WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */
  * HOMEPAGE:
    * https://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)

  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2
 Project

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
```

```
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights
 reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
 distribution.

  3. The names of the authors may not be used to endorse or promote products
     derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
 under
the License.
  * HOMEPAGE:
    * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
  * HOMEPAGE:
```

```
    * https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc.  All rights reserved.
https://developers.google.com/protocol-buffers/

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
  * HOMEPAGE:
    * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
                          (https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
```

```
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling

This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
This copy of Aalto XML processor is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:
```

```
https://www.apache.org/licenses/

A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases,
that file should be located next to this file: in source distribution
the location should be "release-notes/asl"; and in jar "META-INF/"
  * HOMEPAGE:
    * http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/twitter/hpack

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:

  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
```

```
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/

This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/


This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper

This product contains the dnsinfo.h header file, that provides a way to
 retrieve the system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
/*
 * Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.
 *
 * @APPLE_LICENSE_HEADER_START@
 *
 * This file contains Original Code and/or Modifications of Original Code
 * as defined in and that are subject to the Apple Public Source License
 * Version 2.0 (the 'License'). You may not use this file except in
 * compliance with the License. Please obtain a copy of the License at
 * https://www.opensource.apple.com/apsl/ and read it before using this
 * file.
 *
 * The Original Code and all software distributed under the License are
 * distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
 * EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
 * INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
 * Please see the License for the specific language governing rights and
 * limitations under the License.
```

```
 *
 * @APPLE_LICENSE_HEADER_END@
 */
  * HOMEPAGE:
    * https://www.opensource.apple.com/source/configd/configd-453.19/
dnsinfo/dnsinfo.h

This product optionally depends on 'Brotli4j', Brotli compression and
decompression for Java., which can be obtained at:

  * LICENSE:
    * license/LICENSE.brotli4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/hyperxpro/Brotli4j
=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
smallrye-open-api  Red Hat, Inc.
Apache 2.0
Used by: [helidon-openapi]
=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
SmallRye: OpenAPI Implementation (io.smallrye:smallrye-open-api)
  Copyright 2018 Red Hat, Inc.
  Copyright 2020 Red Hat, Inc.
  Copyright 2017,2019 Red Hat, Inc, and individual contributors.
---------------------------------------------
See full text at the bottom of this document for license: Apache-2.0
---------------------------------------------
Fourth Party Runtime Dependencies
---------------------------------------------
"SmallRye: OpenAPI Core" (io.smallrye:smallrye-open-api-core)
"SmallRye: OpenAPI extension - JAX-RS" (io.smallrye:smallrye-open-api-jaxrs)
  Copyright 2018 Red Hat, Inc.
  Copyright 2020 Red Hat, Inc.
  Copyright 2017,2019 Red Hat, Inc, and individual contributors.
  Apache License 2.0
---------------------------------------------
"MicroProfile OpenAPI API" (org.eclipse.microprofile.openapi:microprofile-
openapi-api)
  Copyright 2017 SmartBear Software
  Copyright (c) 2017, 2020 Contributors to the Eclipse Foundation
  Apache License 2.0
  The majority of this software were originally based on the following:
  * Swagger Core
    https://github.com/swagger-api/swagger-core
    under Apache License, v2.0

  SPDXVersion: SPDX-2.1
  PackageName: Eclipse MicroProfile
  PackageHomePage: http://www.eclipse.org/microprofile
  PackageLicenseDeclared: Apache-2.0

  PackageCopyrightText: <text>
  Arthur De Magalhaes arthurdm@ca.ibm.com
  </text>
---------------------------------------------
"MicroProfile Config API" (org.eclipse.microprofile.config:microprofile-
config-api)
  Copyright (c) 2009-2020 Contributors to the Eclipse Foundation
  Apache License 2.0

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).
```

```
  Portions of this software were originally based on the following:
  * Apache DeltaSpike Config
    https://deltaspike.apache.org
    under Apache License, v2.0

  SPDXVersion: SPDX-2.1
  PackageName: Eclipse Microprofile
  PackageHomePage: http://www.eclipse.org/microprofile
  PackageLicenseDeclared: Apache-2.0

  PackageCopyrightText: <text>
  Mark Struberg struberg@apache.org,
  Gerhard Petracek gpetracek@apache.org,
  Romain Manni-Bucau rmannibucau@apache.org,
  Ron Smeral rsmeral@apache.org,
  Emily Jiang emijiang@uk.ibm.com,
  Ondrej Mihalyi ondrej.mihalyi@gmail.com,
  Gunnar Morling gunnar@hibernate.org
  </text>
---------------------------------------------
"Java Annotation Indexer" (org.jboss:jandex)
  Copyright 2013,2021 Red Hat, Inc., and individual contributors
  Apache License 2.0
---------------------------------------------
"JBoss Logging 3" (org.jboss.logging:jboss-logging)
  Copyright 2010,2011 Red Hat, Inc., and individual contributors
  Copyright 2010,2019 Red Hat, Inc.
  Apache License 2.0
---------------------------------------------
"SnakeYAML" (org.yaml:snakeyaml)
  Copyright 2003-2010 Christian d'Heureuse, Inventec Informatik AG, Zurich,
 Switzerland
  Copyright (c) 2008, http://www.snakeyaml.org
  Apache License Version 2
---------------------------------------------
"Jackson" (com.fasterxml.jackson.*:jackson-*)
  com.fasterxml.jackson.core:jackson-databind
  com.fasterxml.jackson.core:jackson-annotations
  com.fasterxml.jackson.dataformat:jackson-dataformat-yaml
  Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
  Copyright 2009-2011 FasterXML, LLC. All rights reserved unless otherwise
 indicated.
  Apache License Version 2

  # Jackson JSON processor

  Jackson is a high-performance, Free/Open Source JSON processing library.
  It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and
 has
  been in development since 2007.
  It is currently developed by a community of developers.

  ## Licensing

  Jackson 2.x core and extension components are licensed under Apache
 License 2.0
  To find the details that apply to this artifact see the accompanying
 LICENSE file.

  ## Credits

  A list of contributors may be found from CREDITS(-2.x) file, which is
 included
  in some artifacts (usually source distributions); but is always available
```

```
  from the source code management (SCM) system project uses.
-------------------------------------------

=========================================================================
Full Text of Referenced Licenses
=========================================================================

EPL-2.0-plus-GPLv2-CPE
Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.
```

```
"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
```

```
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
```

```
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
```

```
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

-----------------------------------------------------------------------------

                     GNU GENERAL PUBLIC LICENSE
                        Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                             Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
```

```
  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

                    GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.
```

```
    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
```

```
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.
```

```
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                             NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                      END OF TERMS AND CONDITIONS

             How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
```

```
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
```

```
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
LGPL-2.1-only
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
```

```
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
```

```
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.
```

```
(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
```

```
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.
```

```
d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
```

```
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
```

```
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.


Copyright (C)

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

, 1 April 1990
Ty Coon, President of Vice
```

```
That's all there is to it!
=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
EPL-2.0
Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
```

```
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
```

```
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
```

```
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.
```

```
Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
GPLv2-CPE

                     GNU GENERAL PUBLIC LICENSE
                        Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                             Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.
```

```
  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

                    GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
```

```
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,
```

```
    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
```

circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER

```
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
```

```
CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.


=====-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
=-=
```

Provider: Oracle and/or its affiliates / Component(s):

```
Copyright (c) 2016, 2017, Oracle and/or its affiliates. All rights reserved.

This software is dual-licensed to you under the Universal Permissive License
 (UPL) and Apache License 2.0. See below for license terms. You may choose
 either license, or both.

UPL
The Universal Permissive License (UPL), Version 1.0 Copyright (c) 2016,
 2017, Oracle and/or its affiliates. All rights reserved.

Subject to the condition set forth below, permission is hereby granted to
 any person obtaining a copy of this software, associated documentation
 and/or data (collectively the "Software"), free of charge and under any and
 all copyright rights in the Software, and any and all patent rights owned
 or freely licensable by each licensor hereunder covering either (i) the
 unmodified Software as contributed to or provided by such licensor, or (ii)
 the Larger Works (as defined below), to deal in both

the Software, and
any piece of software and/or hardware listed in the lrgrwrks.txt file if one
 is included with the Software (each a "Larger Work" to which the Software
 is contributed by such licensors),
without restriction, including without limitation the rights to copy, create
 derivative works of, display, perform, and distribute the Software and
 make, use, sell, offer for sale, import, export, have made, and have sold
 the Software and the Larger Work(s), and to sublicense the foregoing rights
 on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or
 at a minimum a reference to the UPL must be included in all copies or
 substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
```

```
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

Apache
The Apache Software License, Version 2.0

Copyright (c) 2016, 2017, Oracle and/or its affiliates. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License"); You may not
 use this product except in compliance with the License. You may obtain a
 copy of the License at http://www.apache.org/licenses/LICENSE-2.0. A copy
 of the license is also reproduced below. Unless required by applicable
 law or agreed to in writing, software distributed under the License is
 distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express or implied. See the License for the specific language
 governing permissions and limitations under the License.

Apache License Version 2.0, January 2004 http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
```

```
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as “Not a
 Contribution.”
“Contributor” shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.
Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a “NOTICE” text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
Submission of Contributions. Unless You explicitly state otherwise, any
 Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
```

```
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

Trademarks. This License does not grant permission to use the trade names,
 trademarks, service marks, or product names of the Licensor, except as
 required for reasonable and customary use in describing the origin of the
 Work and reproducing the content of the NOTICE file.

Disclaimer of Warranty. Unless required by applicable law or agreed to in
 writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

Limitation of Liability. In no event and under no legal theory, whether in
 tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except in compliance with the License. You may obtain a copy
 of the License at

http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.
================================================================================
```

```
Copyright (c) 2016, 2022, Oracle and/or its affiliates.  All rights
 reserved.
This software is dual-licensed to you under the Universal Permissive License
 (UPL) 1.0 or Apache License 2.0.  See below for license terms.  You may
 choose either license.
 ____________________________
The Universal Permissive License (UPL), Version 1.0
Copyright (c) 2016, 2022, Oracle and/or its affiliates.  All rights
 reserved.

================================================================================

OCI toolkit for Python Third Party License File


------------------------ Third Party Components ------------------------
------------------------------- Licenses -------------------------------
- MIT License
- Apache License 2.0
- Mozilla Public License 2.0 (MPL 2.0)
- BSD 2-Clause "Simplified" License
- BSD 3-Clause "New" or "Revised" License
- GNU Lesser General Public License v2.1
- PSF License
- OpenSSL License
- Original SSLeay License
-------------------------------- Notices -------------------------------
Requests
Copyright 2019 Kenneth Reitz
------------------------------------------------------------------------

======================== Third Party Components ========================
certifi
* Copyright 2022, Kenneth Reitz
* License: Mozilla Public License 2.0 (MPL 2.0)
* Source code: https://github.com/certifi/python-certifi
* Project home: https://certifi.io

cryptography
* Copyright (c) Individual contributors.
* License: Apache License, BSD License, PSF License
* Source code: https://github.com/pyca/cryptography
* Project home: https://github.com/pyca/cryptography

pyOpenSSL
* Copyright 2001 The pyOpenSSL developers
* License: Apache License 2.0
* Source code: https://github.com/pyca/pyopenssl
* Project home: https://www.pyopenssl.org/

python-dateutil
* Copyright 2017- Paul Ganssle <paul@ganssle.io> 2017- dateutil contributors
 (see AUTHORS file)
* License: Apache License 2.0
* Source code: https://github.com/dateutil/dateutil
* Project home: https://dateutil.readthedocs.io/

pytz
* Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>
* License: The MIT License (MIT)
* Source code: https://github.com/stub42/pytz
* Project home: https://pythonhosted.org/pytz
```

```
six
* Copyright (c) 2010-2020 Benjamin Peterson
* License: The MIT License (MIT)
* Source code: https://github.com/benjaminp/six
* Project home: https://github.com/benjaminp/six

vendorize
* Copyright (c) 2015, Michael Williamson All rights reserved
* License: BSD 2-Clause "Simplified" License
* Source code: https://github.com/mwilliamson/python-vendorize
* Project home: https://github.com/mwilliamson/python-vendorize

chardet
* Copyright 2015, Mark Pilgrim, Dan Blanchard, Ian Cordasco
* License: GNU Lesser General Public License v2.1
* Source code: https://github.com/chardet/chardet
* Project home: https://github.com/chardet/chardet

httpsig_cffi
* Copyright (c) 2014 Adam Knight 2012 Adam T. Lindsay (original author)
* License: The MIT License (MIT)
* Source code: https://github.com/hawkowl/httpsig_cffi
* Project home: https://github.com/hawkowl/httpsig_cffi

idna
* Copyright (c) 2013-2021, Kim Davies All rights reserved
* License: BSD 3-Clause "New" or "Revised" License
* Source code: https://github.com/kjd/idna
* Project home: https://github.com/kjd/idna

jwt
* Copyright 2017 Gehirn Inc
* License: Apache License 2.0
* Source code: https://github.com/GehirnInc/python-jwt
* Project home: https://github.com/GehirnInc/python-jwt

requests
* Copyright 2019 Kenneth Reitz
* License: Apache License 2.0
* Source code: https://github.com/psf/requests
* Project home: https://requests.readthedocs.io

urllib3
* Copyright (c) 2008-2020 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)
* License: MIT License
* Source code: https://github.com/urllib3/urllib3
* Project home: https://urllib3.readthedocs.io

circuitbreaker
* Copyright (c) 2016-2020, Fabian Fuelling opensource@fabfuel.de. All rights
 reserved.
* License: BSD-3-Clause New License
* Source code: https://github.com/fabfuel/circuitbreaker
* Project home: https://pypi.org/project/circuitbreaker

pycparser
* Copyright (c) 2008-2020, Eli Bendersky All rights reserved.
* License: BSD-3-Clause New License
* Source code: https://github.com/eliben/pycparser
* Project home: https://pypi.org/project/pycparser

cffi
* Copyright (C) 2005-2007, James Bielman  <jamesjb@jamesjb.com>
```

```
* License: The MIT License
* Source code: https://pypi.org/project/cffi/#files
* Project home: https://cffi.readthedocs.io/en/latest

sseclient
* Copyright 2024 Maxime Petazzoni maxime.petazzoni@bulix.org
* License: Apache License 2.0
* Source code: https://github.com/mpetazzoni/sseclient
* Project home: https://github.com/mpetazzoni/sseclient

openssl
* Copyright (c) 1998-2023 The OpenSSL Project Authors
* Copyright (c) 1995-1998 Eric A. Young, Tim J. Hudson
* License: Apache License 2.0, OpenSSL License, Original SSLeay License
* Source code: https://github.com/openssl/openssl
* Project home: https://www.openssl.org/

libffi
* Copyright (c) 1996-2024  Anthony Green, Red Hat, Inc and others.
* License: The MIT License
* Source code: https://github.com/libffi/libffi
* Project home: https://github.com/libffi/libffi

============================== Licenses ==============================

------------------------------ MIT License ------------------------------

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
---------------------------------------------------------------------------




---------------------------------------------------------------------------

--------------------- BSD 2-Clause "Simplified" License ----------------

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------------------------------------

------------------------ BSD-3-Clause New License ----------------------

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
 notice,
       this list of conditions and the following disclaimer in the
 documentation
       and/or other materials provided with the distribution.

    3. Neither the name of the copyright holder nor the names of its
 contributors
       may be used to endorse or promote products derived from this software
 without
       specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------------------------------------

----------------------- Mozilla Public License -------------------------
Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
```

```
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

Mozilla Public License
Version 2.0
1. Definitions
    1.1. “Contributor”
        means each individual or legal entity that creates, contributes to
        the creation of, or owns Covered Software.

    1.2. “Contributor Version”
        means the combination of the Contributions of others (if any) used
 by
        a Contributor and that particular Contributor’s Contribution.

    1.3. “Contribution”
        means Covered Software of a particular Contributor.

    1.4. “Covered Software”
        means Source Code Form to which the initial Contributor has attached
        the notice in Exhibit A, the Executable Form of such Source Code
 Form,
        and Modifications of such Source Code Form, in each case including
 portions thereof.

    1.5. “Incompatible With Secondary Licenses”
        means that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or that the Covered Software
        was made available under the terms of version 1.1 or earlier of the
        License, but not also under the terms of a Secondary License.

    1.6. “Executable Form”
        means any form of the work other than Source Code Form.

    1.7. “Larger Work”
        means a work that combines Covered Software with other material, in
 a
        separate file or files, that is not Covered Software.

    1.8. “License”
        means this document.

    1.9. “Licensable”
        means having the right to grant, to the maximum extent possible,
 whether
        at the time of the initial grant or subsequently, any and all of the
 rights
        conveyed by this License.

    1.10. “Modifications”
        means any of the following: any file in Source Code Form that
 results
```

```
        from an addition to, deletion from, or modification of the contents
 of
        Covered Software; or any new file in Source Code Form that contains
 any
        Covered Software.

    1.11. “Patent Claims” of a Contributor
        means any patent claim(s), including without limitation, method,
        process, and apparatus claims, in any patent Licensable by such
        Contributor that would be infringed, but for the grant of the
        License, by the making, using, selling, offering for sale, having
        made, import, or transfer of either its Contributions or its
        Contributor Version.

    1.12. “Secondary License”
        means either the GNU General Public License, Version 2.0, the GNU
        Lesser General Public License, Version 2.1, the GNU Affero General
        Public License, Version 3.0, or any later versions of those
 licenses.

    1.13. “Source Code Form”
        means the form of the work preferred for making modifications.

    1.14. “You” (or “Your”)
        means an individual or a legal entity exercising rights under this
        License. For legal entities, “You” includes any entity that
 controls,
        is controlled by, or is under common control with You. For purposes
        of this definition, “control” means (a) the power, direct or
 indirect,
        to cause the direction or management of such entity, whether by
 contract
        or otherwise, or (b) ownership of more than fifty percent (50%) of
 the
        outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions
    2.1. Grants
        Each Contributor hereby grants You a world-wide, royalty-free, non-
exclusive
        license: under intellectual property rights (other than patent or
 trademark)
        Licensable by such Contributor to use, reproduce, make available,
 modify,
        display, perform, distribute, and otherwise exploit its
 Contributions,
        either on an unmodified basis, with Modifications, or as part of a
 Larger
        Work; and under Patent Claims of such Contributor to make, use,
 sell, offer
        for sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.

    2.2. Effective Date
        The licenses granted in Section 2.1 with respect to any Contribution
 become
        effective for each Contribution on the date the Contributor first
 distributes
        such Contribution.

    2.3. Limitations on Grant Scope
        The licenses granted in this Section 2 are the only rights granted
 under
```

```
        this License. No additional rights or licenses will be implied from
 the
        distribution or licensing of Covered Software under this License.
        Notwithstanding Section 2.1(b) above, no patent license is granted
 by a
        Contributor:
        for any code that a Contributor has removed from Covered Software;
 or
        for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or under Patent Claims infringed by Covered Software in
 the
        absence of its Contributions.
        This License does not grant any rights in the trademarks, service
 marks,
        or logos of any Contributor (except as may be necessary to comply
 with
        the notice requirements in Section 3.4).

    2.4. Subsequent Licenses
        No Contributor makes additional grants as a result of Your choice to
        distribute the Covered Software under a subsequent version of this
        License (see Section 10.2) or under the terms of a Secondary License
        (if permitted under the terms of Section 3.3).

    2.5. Representation
        Each Contributor represents that the Contributor believes its
 Contributions
        are its original creation(s) or it has sufficient rights to grant
 the rights
        to its Contributions conveyed by this License.

    2.6. Fair Use
        This License is not intended to limit any rights You have under
 applicable
        copyright doctrines of fair use, fair dealing, or other equivalents.

    2.7. Conditions
        Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses
 granted in
        Section 2.1.

3. Responsibilities
    3.1. Distribution of Source Form
        All distribution of Covered Software in Source Code Form, including
 any
        Modifications that You create or to which You contribute, must be
 under
        the terms of this License. You must inform recipients that the
 Source
        Code Form of the Covered Software is governed by the terms of this
 License,
        and how they can obtain a copy of this License. You may not attempt
 to
        alter or restrict the recipients' rights in the Source Code Form.

    3.2. Distribution of Executable Form
        If You distribute Covered Software in Executable Form then:
        such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
        by reasonable means in a timely manner, at a charge no more than the
```

```
        cost of distribution to the recipient; and You may distribute such
        Executable Form under the terms of this License, or sublicense it
under
        different terms, provided that the license for the Executable Form
        does not attempt to limit or alter the recipients' rights in the
        Source Code Form under this License.

    3.3. Distribution of a Larger Work
        You may create and distribute a Larger Work under terms of Your
choice,
        provided that You also comply with the requirements of this License
        for the Covered Software. If the Larger Work is a combination of
Covered
        Software with a work governed by one or more Secondary Licenses, and
the
        Covered Software is not Incompatible With Secondary Licenses, this
License
        permits You to additionally distribute such Covered Software under
the
        terms of such Secondary License(s), so that the recipient of the
Larger
        Work may, at their option, further distribute the Covered Software
under
        the terms of either this License or such Secondary License(s).

    3.4. Notices
        You may not remove or alter the substance of any license notices
(including
        copyright notices, patent notices, disclaimers of warranty, or
limitations
        of liability) contained within the Source Code Form of the Covered
Software,
        except that You may alter any license notices to the extent required
to
        remedy known factual inaccuracies.

    3.5. Application of Additional Terms
        You may choose to offer, and to charge a fee for, warranty, support,
        indemnity or liability obligations to one or more recipients of
Covered
        Software. However, You may do so only on Your own behalf, and not on
        behalf of any Contributor. You must make it absolutely clear that
any
        such warranty, support, indemnity, or liability obligation is
offered
        by You alone, and You hereby agree to indemnify every Contributor
for
        any liability incurred by such Contributor as a result of warranty,
        support, indemnity or liability terms You offer. You may include
additional
        disclaimers of warranty and limitations of liability specific to any
        jurisdiction.

4. Inability to Comply Due to Statute or Regulation
    If it is impossible for You to comply with any of the terms of this
License
    with respect to some or all of the Covered Software due to statute,
judicial
    order, or regulation then You must: (a) comply with the terms of this
License
    to the maximum extent possible; and (b) describe the limitations and the
code
    they affect. Such description must be placed in a text file included
with all
```

```
    distributions of the Covered Software under this License. Except to the
 extent
    prohibited by statute or regulation, such description must be
 sufficiently
    detailed for a recipient of ordinary skill to be able to understand it.

5. Termination
    5.1. The rights granted under this License will terminate automatically
         if You fail to comply with any of its terms. However, if You become
         compliant, then the rights granted under this License from a
 particular
         Contributor are reinstated (a) provisionally, unless and until such
         Contributor explicitly and finally terminates Your grants, and (b)
 on
         an ongoing basis, if such Contributor fails to notify You of the
         non-compliance by some reasonable means prior to 60 days after You
         have come back into compliance. Moreover, Your grants from a
 particular
         Contributor are reinstated on an ongoing basis if such Contributor
         notifies You of the non-compliance by some reasonable means, this
 is
         the first time You have received notice of non-compliance with this
         License from such Contributor, and You become compliant prior to 30
         days after Your receipt of the notice.

    5.2. If You initiate litigation against any entity by asserting a patent
         infringement claim (excluding declaratory judgment actions,
         counter-claims, and cross-claims) alleging that a Contributor
 Version
         directly or indirectly infringes any patent, then the rights
 granted
         to You by any and all Contributors for the Covered Software under
 Section
         2.1 of this License shall terminate.

    5.3. In the event of termination under Sections 5.1 or 5.2 above, all
 end
         user license agreements (excluding distributors and resellers)
 which
         have been validly granted by You or Your distributors under this
 License
         prior to termination shall survive termination.

6. Disclaimer of Warranty
    Covered Software is provided under this License on an “as is” basis,
 without
    warranty of any kind, either expressed, implied, or statutory,
 including,
    without limitation, warranties that the Covered Software is free of
 defects,
    merchantable, fit for a particular purpose or non-infringing. The entire
    risk as to the quality and performance of the Covered Software is with
 You.
    Should any Covered Software prove defective in any respect, You (not any
    Contributor) assume the cost of any necessary servicing, repair, or
 correction.
    This disclaimer of warranty constitutes an essential part of this
 License. No
    use of any Covered Software is authorized under this License except
 under
    this disclaimer.

7. Limitation of Liability
```

```
    Under no circumstances and under no legal theory, whether tort
 (including
    negligence), contract, or otherwise, shall any Contributor, or anyone
 who
    distributes Covered Software as permitted above, be liable to You for
 any
    direct, indirect, special, incidental, or consequential damages of any
 character
    including, without limitation, damages for lost profits, loss of
 goodwill,
    work stoppage, computer failure or malfunction, or any and all other
 commercial
    damages or losses, even if such party shall have been informed of the
 possibility
    of such damages. This limitation of liability shall not apply to
 liability for
    death or personal injury resulting from such party's negligence to the
 extent
    applicable law prohibits such limitation. Some jurisdictions do not
 allow the
    exclusion or limitation of incidental or consequential damages, so this
 exclusion
    and limitation may not apply to You.

8. Litigation
    Any litigation relating to this License may be brought only in the
 courts of
    a jurisdiction where the defendant maintains its principal place of
 business
    and such litigation shall be governed by laws of that jurisdiction,
 without
    reference to its conflict-of-law provisions. Nothing in this Section
 shall
    prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous
    This License represents the complete agreement concerning the subject
 matter
    hereof. If any provision of this License is held to be unenforceable,
 such
    provision shall be reformed only to the extent necessary to make it
 enforceable.
    Any law or regulation which provides that the language of a contract
 shall
    be construed against the drafter shall not be used to construe this
 License
    against a Contributor.

10. Versions of the License
    10.1. New Versions
        Mozilla Foundation is the license steward. Except as provided in
 Section
        10.3, no one other than the license steward has the right to modify
 or
        publish new versions of this License. Each version will be given a
        distinguishing version number.

    10.2. Effect of New Versions
        You may distribute the Covered Software under the terms of the
 version
        of the License under which You originally received the Covered
 Software,
        or under the terms of any subsequent version published by the
 license steward.
```

```
    10.3. Modified Versions
        If you create software not governed by this License, and you want to
 create
        a new license for such software, you may create and use a modified
 version
        of this License if you rename the license and remove any references
 to the
        name of the license steward (except to note that such modified
 license
        differs from this License).

    10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
        If You choose to distribute Source Code Form that is Incompatible
 With Secondary
        Licenses under the terms of this version of the License, the notice
 described in
        Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
    This Source Code Form is subject to the terms of the Mozilla Public
 License, v. 2.0.
    If a copy of the MPL was not distributed with this file, You can obtain
 one at
    https://mozilla.org/MPL/2.0/.

    If it is not possible or desirable to put the notice in a particular
 file, then
    You may include the notice in a location (such as a LICENSE file in a
 relevant
    directory) where a recipient would be likely to look for such a notice.

    You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
    This Source Code Form is "Incompatible With Secondary Licenses", as
 defined by the
    Mozilla Public License, v. 2.0.
------------------------------------------------------------------------

------------------- GNU LESSER GENERAL PUBLIC LICENSE ------------------
           GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
```

```
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
```

```
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
```

```
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
```

```
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
```

```
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
```

```
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
```

```
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

       NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

       END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
```

```
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301
 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!
---------------------------------------------------------------------------

------------------ PYTHON SOFTWARE FOUNDATION LICENSE ------------------
1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   2.7.12 software in source or binary form and its associated
 documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 2.7.12 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2016 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 2.7.12 alone or in any derivative
 version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 2.7.12 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
   agrees to include in any such work a brief summary of the changes made to
 Python
   2.7.12.
```

```
4. PSF is making Python 2.7.12 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 2.7.12 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.12
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.12, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 2.7.12, Licensee agrees
   to be bound by the terms and conditions of this License Agreement.
----------------------------------------------------------------------------

OpenSSL License
  ---------------

/* ====================================================================
 * Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
```

```
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
 * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 * ====================================================================
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com).  This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 *
 */
 ---------------------------------------------------------------------------

 Original SSLeay License
 -----------------------

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to.  The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given
 attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
```

```
 *    "This product includes cryptographic software written by
 *     Eric Young (eay@cryptsoft.com)"
 *    The word 'cryptographic' can be left out if the rouines from the
 library
 *    being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof)
 from
 *    the apps directory (application code) you must include an
 acknowledgement:
 *    "This product includes software written by Tim Hudson
 (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
 * The licence and distribution terms for any publically available version
 or
 * derivative of this code cannot be changed.  i.e. this code cannot simply
 be
 * copied and put under another distribution licence
 * [including the GNU Public Licence.]
 */
 ----------------------------------------------------------------------------

==============================================================================
```

Provider: Péter Surányi / Component(s): go-inf 0.9.1

```
Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Patrick Mylund Nielsen / Component(s): go-cache 2.1.0

```
go-cache version 2.1.0
COPYRIGHT and LICENSE:

Copyright (c) 2012-2017 Patrick Mylund Nielsen and the go-cache contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Peter Bourgon / Component(s): oklog/run 1.0.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
```

```
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
```

```
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Peter Taoussanis / Component(s): tower 3.1.0-beta4

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1. The following files are available in source code form under the Eclipse
 Public License at: http://www.oracle.com/technetwork/opensource/opensource-
code-1366576.html. (The EPL license is reproduced below).
```

```
2. All past Contributors to Tower disclaim all warranties and conditions,
 express and implied, including warranties or conditions of title and non-
infringement, and implied warranties or conditions of merchantability and
 fitness for a particular purpose. In addition, such Contributors are not
 liable for any damages, including direct, indirect, special, incidental and
 consequential damages, such as lost profits.

3. Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4. {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5. {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement. Oracle is solely responsible for any representations and
 warranties contained therein.

Copyright © 2012-2016 Peter Taoussanis.
https://github.com/ptaoussanis/tower
Distributed under the EPL v1.0 (same as Clojure).
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
```

```
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
```

```
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
```

```
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Peter Thorson / Component(s): websocketpp 0.8.2

```
Copyright (c) 2014, Peter Thorson. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the WebSocket++ Project nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL PETER THORSON BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Bundled Libraries:

****** Base 64 Library (base64/base64.hpp) ******
base64.hpp is a repackaging of the base64.cpp and base64.h files into a
single header suitable for use as a header only library. This conversion was
done by Peter Thorson (webmaster@zaphoyd.com) in 2012. All modifications to
the code are redistributed under the same license as the original, which is
listed below.

base64.cpp and base64.h

Copyright (C) 2004-2008 René Nyffenegger

This source code is provided 'as-is', without any express or implied
warranty. In no event will the author be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this source code must not be misrepresented; you must not
  claim that you wrote the original source code. If you use this source code
  in a product, an acknowledgment in the product documentation would be
  appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be
  misrepresented as being the original source code.
```

```
3. This notice may not be removed or altered from any source distribution.

René Nyffenegger rene.nyffenegger@adp-gmbh.ch

****** SHA1 Library (sha1/sha1.hpp) ******
sha1.hpp is a repackaging of the sha1.cpp and sha1.h files from the
 shallsha1
library (http://code.google.com/p/smallsha1/) into a single header suitable
 for
use as a header only library. This conversion was done by Peter Thorson
(webmaster@zaphoyd.com) in 2013. All modifications to the code are
 redistributed
under the same license as the original, which is listed below.

 Copyright (c) 2011, Micael Hildenborg
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of Micael Hildenborg nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY Micael Hildenborg ''AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL Micael Hildenborg BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

****** MD5 Library (common/md5.hpp) ******
md5.hpp is a reformulation of the md5.h and md5.c code from
http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c to allow it
 to
function as a component of a header only library. This conversion was done
 by
Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project.
 The
changes are released under the same license as the original (listed below)

Copyright (C) 1999, 2002 Aladdin Enterprises.  All rights reserved.

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
 claim that you wrote the original software. If you use this software
 in a product, an acknowledgment in the product documentation would be
```

```
 appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
 misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

L. Peter Deutsch
ghost@aladdin.com

****** UTF8 Validation logic (utf8_validation.hpp) ******
utf8_validation.hpp is adapted from code originally written by Bjoern
 Hoehrmann
<bjoern@hoehrmann.de>. See http://bjoern.hoehrmann.de/utf-8/decoder/dfa/ for
details.

The original license:

Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Petka Antonov / Component(s): bluebird 3.7.2

```
The MIT License (MIT)

Copyright (c) 2013-2018 Petka Antonov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Pip Developers / Component(s): python-pip 8.1.2-6

```
Copyright (c) 2008-2016 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Pivotal Software, Inc / Component(s): Micrometer 1.1.2

```
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
```

```
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
```

```
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
```

```
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Pivotal Software, Inc / Component(s): Micrometer Registry Prometheus 1.1.2

```
Micrometer Registry Prometheus is under Apache 2.0 License:
-------------------------------------------------------------------------------------------
 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
-----------------------------------------------------------------------------------------------
```

```
-------------------------------------   Copy Right for Micrometer Registry
 Prometheus -----------------------------------------
/**
 * Copyright 2017 Pivotal Software, Inc.
 * <p>
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 * <p>
 * http://www.apache.org/licenses/LICENSE-2.0
 * <p>
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
-------------------------------------------------------------------------------------------

4th party dependencies and its license info:

1) io.micrometer » micrometer-core  V 1.0.6 (Apache 2.0)
------------------------------------------------- Copy Right
 ---------------------------------------------------------------------------
/**
 * Copyright 2017 Pivotal Software, Inc.
 * <p>
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 * <p>
 * http://www.apache.org/licenses/LICENSE-2.0
 * <p>
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
-------------------------------------------------------------------------------------------

2) io.prometheus » simpleclient_common V 0.4.0 (Apache 2.0)
------------------------------------------------- Copy Right
 ---------------------------------------------------------------------------
Cannot find copyright info from the source.
-------------------------------------------------------------------------------------------
```

Provider: Pivotal Software, Inc / Component(s): reactor-core 3.5.1

```
/*
 * Copyright (c) 2011-2022 VMware Inc. or its affiliates, All Rights
 Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *   https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

/**
 * Core components of the framework supporting extensions to the Reactive
 Stream
 * programming model.
 *
 */
-------

Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
```

```
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
```

```
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
//fourth party dependency

reactive-streams MIT License

MIT No Attribution

Copyright 2014 Reactive Streams

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Pivotal Software, Inc / Component(s): Spring Boot 2.4.5

```
Spring Boot 2.4.5
__________________

spring-boot:jar:2.4.5
spring-boot-actuator:jar:2.4.5
spring-boot-actuator-autoconfigure:jar:2.4.5
spring-boot-autoconfigure:jar:2.4.5
spring-boot-configuration-metadata:jar:2.4.5
spring-boot-properties-migrator:jar:2.4.5
spring-boot-starter:jar:2.4.5
spring-boot-starter-actuator:jar:2.4.5
spring-boot-starter-aop:jar:2.4.5
spring-boot-starter-cache:jar:2.4.5
spring-boot-starter-data-jpa:jar:2.4.5
```

```
spring-boot-starter-jdbc:jar:2.4.5
spring-boot-starter-json:jar:2.4.5
spring-boot-starter-log4j2:jar:2.4.5
spring-boot-starter-logging:jar:2.4.5
spring-boot-starter-tomcat:jar:2.4.5
spring-boot-starter-validation:jar:2.4.5
spring-boot-starter-web:jar:2.4.5
spring-boot-starter-websocket:jar:2.4.5

/*
 * Copyright 2012-2021 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

LICENSE:

                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
```

```
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

========================================================================

To the extent any open source subcomponents are licensed under the EPL and/
or other
similar licenses that require the source code and/or modifications to
source code to be made available (as would be noted above), you may obtain
 a
copy of the source code corresponding to the binaries for such open source
components and modifications thereto, if any, (the "Source Files"), by
downloading the Source Files from https://www.springsource.org/download,
or by sending a request, with your name and address to: VMware, Inc., 3401
 Hillview
Avenue, Palo Alto, CA 94304, United States of America or email
 info@vmware.com.  All
such requests should clearly specify:  OPEN SOURCE FILES REQUEST, Attention
 General
Counsel.  VMware shall mail a copy of the Source Files to you on a CD or
 equivalent
physical medium.  This offer to obtain a copy of the Source Files is valid
 for three
years from the date you acquired this Software product.

**************
spring-aop:jar:5.3.6
spring-aspects:jar:5.3.6
```

```
spring-beans:jar:5.3.6
spring-context:jar:5.3.6
spring-context-support:jar:5.3.6
spring-core:jar:5.3.6
spring-expression:jar:5.3.6
spring-jdbc:jar:5.3.6
spring-jcl:jar:5.3.6
spring-messaging:jar:5.3.6
spring-orm:jar:5.3.6
spring-tx:jar:5.3.6
spring-web:jar:5.3.6
spring-webmvc:jar:5.3.6
spring-websocket:jar:5.3.6

/*
 * Copyright 2012-2021 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */


Dependency: org.springframework.data:spring-data-jpa:jar:2.4.8
License: Apache License Version 2.0 + EPL and/or other similar licenses
License: [2]
Copyright: [3]

Dependency: org.springframework.data:spring-data-commons:jar:2.4.8
License: Apache License Version 2.0 + EPL and/or other similar licenses
License: [2]
Copyright: [4]

Dependency: io.micrometer:micrometer-core:jar:1.6.6
License: Apache License Version 2.0
License: [0]
Copyright: [5]

Dependency: org.aspectj:aspectjweaver:jar:1.9.6
License: Eclipse Public License Version 1.0
License: [6]
Copyright: [7]

Dependency: com.fasterxml:classmate:jar:1.5.1
License: Apache License Version 2.0
License: [0]
Copyright: [8]

Dependency: org.apache.commons:commons-lang3:jar:3.11
License: Apache License Version 2.0
License: [0]
Copyright: [9]

Dependency: org.apache.commons:commons-pool2:jar:2.9.0
License: Apache License Version 2.0 + Public domain
License: [10]
```

```
Copyright: [11]

Dependency: org.glassfish:jakarta.el:jar:3.0.3
License: Eclipse Public License Version 2.0 + GPL2 w/ CPE
License: [12]
Copyright: [13]

Dependency: com.google.code.gson:gson:jar:2.8.6
License: Apache License Version 2.0
License: [0]
Copyright: [14]

Dependency: org.hibernate.validator:hibernate-validator:jar:6.1.7.Final
License: Apache License Version 2.0
License: [0]
Copyright: [15]

Dependency: com.zaxxer:HikariCP:jar:3.4.5
License: Apache License Version 2.0
License: [0]
Copyright: [16]

Dependency: org.apache.httpcomponents:httpclient:jar:4.5.13
License: Apache License Version 2.0
License: [17]
Copyright: [18]

Dependency: org.apache.httpcomponents:httpcore:jar:4.4.14
License: Apache License Version 2.0
License: [0]
Copyright: [19]

Dependency: jakarta.annotation:jakarta.annotation-api:jar:1.3.5
License: Eclipse Public License Version 2.0 + GPL2 w/ CPE
License: [12]
Copyright: [20]

Dependency: jakarta.persistence:jakarta.persistence-api:jar:2.2.3
License: Eclipse Public License Version 2.0
License: [21]
Copyright: [20]

Dependency: jakarta.transaction:jakarta.transaction-api:jar:1.3.3
License: Eclipse Public License Version 2.0 + GPL2 w/ CPE
License: [12]
Copyright: [20]

Dependency: com.squareup.okhttp3:logging-interceptor:jar:3.14.9
License: Apache License Version 2.0
License: [0]
Copyright: [22]

Dependency: com.squareup.okhttp3:okhttp:jar:3.14.9
License: Apache License Version 2.0
License: [0]
Copyright: [22]

Dependency: org.slf4j:jul-to-slf4j:jar:1.7.30
License: MIT License
License: [23]
Copyright: [24]

Dependency: org.slf4j:slf4j-api:jar:1.7.30
License: MIT License
```

```
License: [23]
Copyright: [25]

Dependency: org.yaml:snakeyaml:jar:1.27
License: Apache License Version 2.0
License: [0]
Copyright: [26]

Dependency: org.apache.tomcat.embed:tomcat-embed-core:jar:9.0.45
License: Apache License Version 2.0
License: [27]
Copyright: [28]

Dependency: org.apache.tomcat.embed:tomcat-embed-websocket:jar:9.0.45
License: Apache License Version 2.0
License: [27]
Copyright: [28]

Dependency: org.jboss.logging:jboss-logging:jar:3.4.1.Final
License: Apache License Version 2.0
License: [0]
Copyright: [29]

Dependency: net.bytebuddy:byte-buddy:jar:1.10.22
License: Apache License Version 2.0
License: [0]
Copyright: [30]

Dependency: antlr:antlr:jar:2.7.7
License: ANTLR 2 License
License: [31]
Copyright: [32]

Dependency: jakarta.validation:jakarta.validation-api:jar:2.0.2
License: Apache License Version 2.0
License: [0]
Copyright: [20]

Dependency: jakarta.xml.bind:jakarta.xml.bind-api:jar:2.3.3
License: Eclipse Public License Version 1.0
License: [6]
Copyright: [13]

Dependency: jakarta.activation:jakarta.activation-api:jar:1.2.2
License: Eclipse Public License Version 1.0
License: [6]
Copyright: [20]

Dependency: com.sun.activation:jakarta.activation:jar:1.2.2
License: Eclipse Public License Version 1.0
License: [6]
Copyright: [20]

Dependency: commons-codec:commons-codec:jar:1.15
License: Apache License Version 2.0
License: [0]
Copyright: [33]

Dependency: org.glassfish.jaxb:txw2:jar:2.3.4
License: Eclipse Public License Version 1.0
License: [6]
Copyright: [20]

Dependency: com.vaadin.external.google:android-json:jar:0.0.20131108.vaadin1
```

```
License: Apache License Version 2.0
License: [0]
Copyright: [34]

Dependency: org.hdrhistogram:HdrHistogram:jar:2.1.12
License: BSD License
License: [35]
Copyright: [36]

Dependency: org.latencyutils:LatencyUtils:jar:2.0.3
License: BSD License
License: [37]
Copyright: [38]

Dependency: javax.enterprise:cdi-api:jar:1.0
License: Apache License Version 2.0
License: [0]
Copyright: [39]

Dependency: commons-logging:commons-logging:jar:1.2
License: Apache License Version 2.0
License: [0]
Copyright: [40]

Dependency: org.dom4j:dom4j:jar:2.1.3
License: BSD License
License: [41]
Copyright: [42]

Dependency: org.hibernate.common:hibernate-commons-
annotations:jar:5.1.2.Final
License: LGPLv2.1
License: [43]
Copyright: [44]

Dependency: org.jboss:jandex:jar:2.2.3.Final
License: Apache License Version 2.0
License: [0]
Copyright: [45]

Dependency: org.javassist:javassist:jar:3.27.0-GA
License: MPL 1.1 or LGPL2.1 or APL 2.0
License: [46]
Copyright: [47]

Dependency: jline:jline:jar:2.14.5
License: BSD License
License: [48]
Copyright: [49]

Dependency: com.github.stephenc.jcip:jcip-annotations:1.0-1
License: Apache License Version 2.0
License: [0]
Copyright: [50]

Dependency: org.apache.maven:maven-artifact:jar:3.6.3
License: Apache License Version 2.0
License: [0]
Copyright: [51]

Dependency: org.apache.maven:maven-plugin-api:jar:3.6.3
License: Apache License Version 2.0
License: [0]
Copyright: [51]
```

```
Dependency: com.squareup.okio:okio:jar:1.15.0
License: Apache License Version 2.0
License: [0]
Copyright: [52]

Dependency: org.eclipse.sisu:org.eclipse.sisu.inject:jar:0.3.0
License: Eclipse Public License Version 1.0
License: [6]
Copyright: [53]

Dependency: org.eclipse.sisu:org.eclipse.sisu.plexus:jar:0.3.0
License: Eclipse Public License Version 1.0
License: [6]
Copyright: [54]

Dependency: org.codehaus.plexus:plexus-classworlds:jar:2.6.0
License: Apache License Version 2.0
License: [0]
Copyright: [55]

Dependency: org.codehaus.plexus:plexus-component-annotations:jar:1.5.5
License: Apache License Version 2.0
License: [0]
Copyright: [56]

Dependency: org.codehaus.plexus:plexus-utils:jar:3.1.0
License: Apache License Version 2.0
License: [0]
Copyright: [57]

Dependency: org.sonatype.sisu:sisu-guice:jar:3.2.5
License: Apache License Version 2.0
License: [0]
Copyright: [58]

Dependency: org.sonatype.sisu:sisu-inject-bean:jar:2.6.0
License: Eclipse Public License Version 1.0
License: [6]
Copyright: [59]

Dependency: org.sonatype.sisu:sisu-inject-plexus:jar:2.6.0
License: Eclipse Public License Version 1.0
License: [6]
Copyright: [54]

Dependency: org.reactivestreams:reactive-streams:jar:1.0.3
License: Public Domain
License: [60]
Copyright: [61]

++++++++++++++++++++++++++++++++++
++++++++++ References ++++++++++++
++++++++++++++++++++++++++++++++++

================ Start of Reference [0] ================

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
```

```
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

================ End of Reference [0] ================

================ Start of Reference [1] ================
/*
 * Copyright 2012-2021 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [1] ================

================ Start of Reference [2] ================
                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

========================================================================

To the extent any open source subcomponents are licensed under the EPL and/
or other
similar licenses that require the source code and/or modifications to
source code to be made available (as would be noted above), you may obtain
 a
copy of the source code corresponding to the binaries for such open source
components and modifications thereto, if any, (the "Source Files"), by
downloading the Source Files from https://www.springsource.org/download,
or by sending a request, with your name and address to: VMware, Inc., 3401
 Hillview
Avenue, Palo Alto, CA 94304, United States of America or email
 info@vmware.com.  All
such requests should clearly specify:  OPEN SOURCE FILES REQUEST, Attention
 General
Counsel.  VMware shall mail a copy of the Source Files to you on a CD or
 equivalent
physical medium.  This offer to obtain a copy of the Source Files is valid
 for three
years from the date you acquired this Software product.
================ End of Reference [2] ================

================ Start of Reference [3] ================
Spring Data JPA 2.4.8 (2020.0.8)
Copyright (c) [2011-2019] Pivotal Software, Inc.
```

```
This product is licensed to you under the Apache License, Version 2.0 (the
 "License").
You may not use this product except in compliance with the License.

This product may include a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the subcomponent's license, as noted in the LICENSE file.

================ End of Reference [3] ================

================ Start of Reference [4] ================
Spring Data JPA 2.4.8 (2020.0.8)
Copyright (c) [2011-2019] Pivotal Software, Inc.

This product is licensed to you under the Apache License, Version 2.0 (the
 "License").
You may not use this product except in compliance with the License.

This product may include a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the subcomponent's license, as noted in the LICENSE file.
================ End of Reference [4] ================

================ Start of Reference [5] ================
Micrometer

Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

This product contains a modified portion of
 'io.netty.util.internal.logging',
in the Netty/Common library distributed by The Netty Project:

  * Copyright 2013 The Netty Project
  * License: Apache License v2.0
  * Homepage: https://netty.io

This product contains a modified portion of 'StringUtils.isBlank()',
in the Commons Lang library distributed by The Apache Software Foundation:

  * Copyright 2001-2019 The Apache Software Foundation
  * License: Apache License v2.0
  * Homepage: https://commons.apache.org/proper/commons-lang/

This product contains a modified portion of 'JsonUtf8Writer',
in the Moshi library distributed by Square, Inc:

  * Copyright 2010 Google Inc.
```

```
  * License: Apache License v2.0
  * Homepage: https://github.com/square/moshi

This product contains a modified portion of the 'org.springframework.lang'
package in the Spring Framework library, distributed by VMware, Inc:

  * Copyright 2002-2019 the original author or authors.
  * License: Apache License v2.0
  * Homepage: https://spring.io/projects/spring-framework
================ End of Reference [5] ================

================ Start of Reference [6] ================
Eclipse Public License - v 1.0 THE ACCOMPANYING PROGRAM IS PROVIDED
 UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE,
 REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S
 ACCEPTANCE OF THIS AGREEMENT.  1. DEFINITIONS  "Contribution" means:  a)
 in the case of the initial Contributor, the initial code and documentation
 distributed under this Agreement, and  b) in the case of each subsequent
 Contributor:  i) changes to the Program, and  ii) additions to the Program;
  where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
 "Contributor" means any person or entity that distributes the Program.
 "Licensed Patents" mean patent claims licensable by a Contributor which
 are necessarily infringed by the use or sale of its Contribution alone
 or when combined with the Program.  "Program" means the Contributions
 distributed in accordance with this Agreement.  "Recipient" means anyone
 who receives the Program under this Agreement, including all Contributors.
  2. GRANT OF RIGHTS  a) Subject to the terms of this Agreement, each
 Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-
free copyright license to reproduce, prepare derivative works of, publicly
 display, publicly perform, distribute and sublicense the Contribution
 of such Contributor, if any, and such derivative works, in source code
 and object code form.  b) Subject to the terms of this Agreement, each
 Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-
free patent license under Licensed Patents to make, use, sell, offer to
 sell, import and otherwise transfer the Contribution of such Contributor,
 if any, in source code and object code form. This patent license shall
 apply to the combination of the Contribution and the Program if, at
 the time the Contribution is added by the Contributor, such addition of
 the Contribution causes such combination to be covered by the Licensed
 Patents. The patent license shall not apply to any other combinations
 which include the Contribution. No hardware per se is licensed hereunder.
  c) Recipient understands that although each Contributor grants the
 licenses to its Contributions set forth herein, no assurances are provided
 by any Contributor that the Program does not infringe the patent or
 other intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.  d) Each Contributor represents that to its knowledge it
 has sufficient copyright rights in its Contribution, if any, to grant
 the copyright license set forth in this Agreement.  3. REQUIREMENTS
 A Contributor may choose to distribute the Program in object code form
 under its own license agreement, provided that:  a) it complies with the
 terms and conditions of this Agreement; and  b) its license agreement:
```

```
 i) effectively disclaims on behalf of all Contributors all warranties
and conditions, express and implied, including warranties or conditions
of title and non-infringement, and implied warranties or conditions of
merchantability and fitness for a particular purpose;  ii) effectively
excludes on behalf of all Contributors all liability for damages, including
direct, indirect, special, incidental and consequential damages, such
as lost profits;  iii) states that any provisions which differ from this
Agreement are offered by that Contributor alone and not by any other
party; and  iv) states that source code for the Program is available from
such Contributor, and informs licensees how to obtain it in a reasonable
manner on or through a medium customarily used for software exchange.
When the Program is made available in source code form:  a) it must be made
available under this Agreement; and  b) a copy of this Agreement must be
included with each copy of the Program.  Contributors may not remove or
alter any copyright notices contained within the Program.  Each Contributor
must identify itself as the originator of its Contribution, if any, in
a manner that reasonably allows subsequent Recipients to identify the
originator of the Contribution.  4. COMMERCIAL DISTRIBUTION  Commercial
distributors of software may accept certain responsibilities with respect
to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
who includes the Program in a commercial product offering should do so in
a manner which does not create potential liability for other Contributors.
Therefore, if a Contributor includes the Program in a commercial product
offering, such Contributor ("Commercial Contributor") hereby agrees to
defend and indemnify every other Contributor ("Indemnified Contributor")
against any losses, damages and costs (collectively "Losses") arising from
claims, lawsuits and other legal actions brought by a third party against
the Indemnified Contributor to the extent caused by the acts or omissions
of such Commercial Contributor in connection with its distribution of the
Program in a commercial product offering. The obligations in this section
do not apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in writing
of such claim, and b) allow the Commercial Contributor to control, and
cooperate with the Commercial Contributor in, the defense and any related
settlement negotiations. The Indemnified Contributor may participate in any
such claim at its own expense.  For example, a Contributor might include
the Program in a commercial product offering, Product X. That Contributor
is then a Commercial Contributor. If that Commercial Contributor then
makes performance claims, or offers warranties related to Product X,
those performance claims and warranties are such Commercial Contributor's
responsibility alone. Under this section, the Commercial Contributor
would have to defend claims against the other Contributors related to
those performance claims and warranties, and if a court requires any other
Contributor to pay any damages as a result, the Commercial Contributor must
pay those damages.  5. NO WARRANTY  EXCEPT AS EXPRESSLY SET FORTH IN THIS
AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES
OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT
LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT,
MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient
is solely responsible for determining the appropriateness of using and
distributing the Program and assumes all risks associated with its exercise
of rights under this Agreement , including but not limited to the risks
and costs of program errors, compliance with applicable laws, damage to
or loss of data, programs or equipment, and unavailability or interruption
of operations.  6. DISCLAIMER OF LIABILITY  EXCEPT AS EXPRESSLY SET FORTH
IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE
ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS),
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
```

```
 7. GENERAL  If any provision of this Agreement is invalid or unenforceable
 under applicable law, it shall not affect the validity or enforceability of
 the remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.  If Recipient
 institutes patent litigation against any entity (including a cross-claim
 or counterclaim in a lawsuit) alleging that the Program itself (excluding
 combinations of the Program with other software or hardware) infringes
 such Recipient's patent(s), then such Recipient's rights granted under
 Section 2(b) shall terminate as of the date such litigation is filed.
 All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program
 as soon as reasonably practicable. However, Recipient's obligations under
 this Agreement and any licenses granted by Recipient relating to the
 Program shall continue and survive.  Everyone is permitted to copy and
 distribute copies of this Agreement, but in order to avoid inconsistency
 the Agreement is copyrighted and may only be modified in the following
 manner. The Agreement Steward reserves the right to publish new versions
 (including revisions) of this Agreement from time to time. No one other
 than the Agreement Steward has the right to modify this Agreement. The
 Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation
 may assign the responsibility to serve as the Agreement Steward to a
 suitable separate entity. Each new version of the Agreement will be given
 a distinguishing version number. The Program (including Contributions)
 may always be distributed subject to the version of the Agreement under
 which it was received. In addition, after a new version of the Agreement
 is published, Contributor may elect to distribute the Program (including
 its Contributions) under the new version. Except as expressly stated in
 Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to
 the intellectual property of any Contributor under this Agreement, whether
 expressly, by implication, estoppel or otherwise. All rights in the Program
 not expressly granted under this Agreement are reserved.  This Agreement is
 governed by the laws of the State of New York and the intellectual property
 laws of the United States of America. No party to this Agreement will bring
 a legal action under this Agreement more than one year after the cause of
 action arose. Each party waives its rights to a jury trial in any resulting
 litigation.
================ End of Reference [6] ================

================ Start of Reference [7] ================
 * Copyright (c) 2005 Contributors.  * All rights reserved.  * This program
 and the accompanying materials are made available  * under the terms of the
 Eclipse Public License v1.0  * which accompanies this distribution and is
 available at  * http://eclipse.org/legal/epl-v10.html
================ End of Reference [7] ================

================ Start of Reference [8] ================
Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel
================ End of Reference [8] ================

================ Start of Reference [9] ================
Apache Commons Lang
Copyright 2001-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
```

```
================ End of Reference [9] ================

================ Start of Reference [10] ================

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

 APACHE COMMONS POOL DERIVATIVE WORKS:

   The LinkedBlockingDeque implementation is based on an implementation
 written by
   Doug Lea with assistance from members of JCP JSR-166 Expert Group and
 released
   to the public domain, as explained at
   http://creativecommons.org/licenses/publicdomain

================ End of Reference [10] ================

================ Start of Reference [11] ================
Apache Commons Pool
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
================ End of Reference [11] ================

================ Start of Reference [12] ================
# Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.

    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.
```

```
"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
```

```
      Program, it is Recipient's responsibility to acquire that license
      before distributing the Program.

      d) Each Contributor represents that to its knowledge it has
      sufficient copyright rights in its Contribution, if any, to grant
      the copyright license set forth in this Agreement.

      e) Notwithstanding the terms of any Secondary License, no
      Contributor makes additional grants to any Recipient (other than
      those set forth in this Agreement) as a result of such Recipient's
      receipt of the Program under the terms of a Secondary License
      (if permitted under the terms of Section 3).

    3. REQUIREMENTS

    3.1 If a Contributor Distributes the Program in any form, then:

      a) the Program must also be made available as Source Code, in
      accordance with section 3.2, and the Contributor must accompany
      the Program with a statement that the Source Code for the Program
      is available under this Agreement, and informs Recipients how to
      obtain it in a reasonable manner on or through a medium customarily
      used for software exchange; and

      b) the Contributor may Distribute the Program under a license
      different than this Agreement, provided that such license:
         i) effectively disclaims on behalf of all other Contributors all
         warranties and conditions, express and implied, including
         warranties or conditions of title and non-infringement, and
         implied warranties or conditions of merchantability and fitness
         for a particular purpose;

         ii) effectively excludes on behalf of all other Contributors all
         liability for damages, including direct, indirect, special,
         incidental and consequential damages, such as lost profits;

         iii) does not attempt to limit or alter the recipients' rights
         in the Source Code under section 3.2; and

         iv) requires any subsequent distribution of the Program by any
         party to be under a license that satisfies the requirements
         of this section 3.

    3.2 When the Program is Distributed as Source Code:

      a) it must be made available under this Agreement, or if the
      Program (i) is combined with other material in a separate file or
      files made available under a Secondary License, and (ii) the initial
      Contributor attached to the Source Code the notice described in
      Exhibit A of this Agreement, then the Program may be made available
      under the terms of such Secondary Licenses, and

      b) a copy of this Agreement must be included with each copy of
      the Program.

    3.3 Contributors may not remove or alter any copyright, patent,
    trademark, attribution notices, disclaimers of warranty, or limitations
    of liability ("notices") contained within the Program from any copy of
    the Program which they Distribute, provided that Contributors may add
    their own appropriate notices.

    4. COMMERCIAL DISTRIBUTION

    Commercial distributors of software may accept certain responsibilities
```

```
   with respect to end users, business partners and the like. While this
   license is intended to facilitate the commercial use of the Program,
   the Contributor who includes the Program in a commercial product
   offering should do so in a manner which does not create potential
   liability for other Contributors. Therefore, if a Contributor includes
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the
Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
   Contributor must: a) promptly notify the Commercial Contributor in
   writing of such claim, and b) allow the Commercial Contributor to
control,
   and cooperate with the Commercial Contributor in, the defense and any
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.

   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance
   claims, or offers warranties related to Product X, those performance
   claims and warranties are such Commercial Contributor's responsibility
   alone. Under this section, the Commercial Contributor would have to
   defend claims against the other Contributors related to those
performance
   claims and warranties, and if a court requires any other Contributor to
   pay any damages as a result, the Commercial Contributor must pay
   those damages.

   5. NO WARRANTY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
   BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
   IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
   TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
   PURPOSE. Each Recipient is solely responsible for determining the
   appropriateness of using and distributing the Program and assumes all
   risks associated with its exercise of rights under this Agreement,
   including but not limited to the risks and costs of program errors,
   compliance with applicable laws, damage to or loss of data, programs
   or equipment, and unavailability or interruption of operations.

   6. DISCLAIMER OF LIABILITY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
   SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
   PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
   CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
   ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
   EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
   POSSIBILITY OF SUCH DAMAGES.

   7. GENERAL

   If any provision of this Agreement is invalid or unenforceable under
```

```
   applicable law, it shall not affect the validity or enforceability of
   the remainder of the terms of this Agreement, and without further
   action by the parties hereto, such provision shall be reformed to the
   minimum extent necessary to make such provision valid and enforceable.

   If Recipient institutes patent litigation against any entity
   (including a cross-claim or counterclaim in a lawsuit) alleging that the
   Program itself (excluding combinations of the Program with other
software
   or hardware) infringes such Recipient's patent(s), then such Recipient's
   rights granted under Section 2(b) shall terminate as of the date such
   litigation is filed.

   All Recipient's rights under this Agreement shall terminate if it
   fails to comply with any of the material terms or conditions of this
   Agreement and does not cure such failure in a reasonable period of
   time after becoming aware of such noncompliance. If all Recipient's
   rights under this Agreement terminate, Recipient agrees to cease use
   and distribution of the Program as soon as reasonably practicable.
   However, Recipient's obligations under this Agreement and any licenses
   granted by Recipient relating to the Program shall continue and survive.

   Everyone is permitted to copy and distribute copies of this Agreement,
   but in order to avoid inconsistency the Agreement is copyrighted and
   may only be modified in the following manner. The Agreement Steward
   reserves the right to publish new versions (including revisions) of
   this Agreement from time to time. No one other than the Agreement
   Steward has the right to modify this Agreement. The Eclipse Foundation
   is the initial Agreement Steward. The Eclipse Foundation may assign the
   responsibility to serve as the Agreement Steward to a suitable separate
   entity. Each new version of the Agreement will be given a distinguishing
   version number. The Program (including Contributions) may always be
   Distributed subject to the version of the Agreement under which it was
   received. In addition, after a new version of the Agreement is
published,
   Contributor may elect to Distribute the Program (including its
   Contributions) under the new version.

   Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
   receives no rights or licenses to the intellectual property of any
   Contributor under this Agreement, whether expressly, by implication,
   estoppel or otherwise. All rights in the Program not expressly granted
   under this Agreement are reserved. Nothing in this Agreement is intended
   to be enforceable by any entity that is not a Contributor or Recipient.
   No third-party beneficiary rights are created under this Agreement.

   Exhibit A - Form of Secondary Licenses Notice

   "This Source Code may also be made available under the following
   Secondary Licenses when the conditions for such availability set forth
   in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
   version(s), and exceptions or additional permissions here}."

     Simply including a copy of this Agreement, including this Exhibit A
     is not sufficient to license the Source Code under Secondary Licenses.

     If it is not possible or desirable to put the notice in a particular
     file, then You may include the notice in a location (such as a LICENSE
     file in a relevant directory) where a recipient would be likely to
     look for such a notice.

     You may add additional accurate notices of copyright ownership.

---
```

```
##    The GNU General Public License (GPL) Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA

    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    Preamble

    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
    Software Foundation software is covered by the GNU Library General
    Public License instead.) You can apply it to your programs, too.

    When we speak of free software, we are referring to freedom, not price.
    Our General Public Licenses are designed to make sure that you have the
    freedom to distribute copies of free software (and charge for this
    service if you wish), that you receive source code or can get it if you
    want it, that you can change the software or use pieces of it in new
    free programs; and that you know you can do these things.

    To protect your rights, we need to make restrictions that forbid anyone
    to deny you these rights or to ask you to surrender the rights. These
    restrictions translate to certain responsibilities for you if you
    distribute copies of the software, or if you modify it.

    For example, if you distribute copies of such a program, whether gratis
    or for a fee, you must give the recipients all the rights that you have.
    You must make sure that they, too, receive or can get the source code.
    And you must show them these terms so they know their rights.

    We protect your rights with two steps: (1) copyright the software, and
    (2) offer you this license which gives you legal permission to copy,
    distribute and/or modify the software.

    Also, for each author's protection and ours, we want to make certain
    that everyone understands that there is no warranty for this free
    software. If the software is modified by someone else and passed on, we
    want its recipients to know that what they have is not the original, so
    that any problems introduced by others will not reflect on the original
    authors' reputations.

    Finally, any free program is threatened constantly by software patents.
    We wish to avoid the danger that redistributors of a free program will
    individually obtain patent licenses, in effect making the program
    proprietary. To prevent this, we have made it clear that any patent must
    be licensed for everyone's free use or not licensed at all.

    The precise terms and conditions for copying, distribution and
    modification follow.

    TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

    0. This License applies to any program or other work which contains a
    notice placed by the copyright holder saying it may be distributed under
    the terms of this General Public License. The "Program", below, refers
```

```
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
```

```
    with the Program (or with a work based on the Program) on a volume of a
    storage or distribution medium does not bring the other work under the
    scope of this License.

    3. You may copy and distribute the Program (or a work based on it,
    under Section 2) in object code or executable form under the terms of
    Sections 1 and 2 above provided that you also do one of the following:

        a) Accompany it with the complete corresponding machine-readable
        source code, which must be distributed under the terms of Sections 1
        and 2 above on a medium customarily used for software interchange;
or,

        b) Accompany it with a written offer, valid for at least three
        years, to give any third party, for a charge no more than your cost
        of physically performing source distribution, a complete
        machine-readable copy of the corresponding source code, to be
        distributed under the terms of Sections 1 and 2 above on a medium
        customarily used for software interchange; or,

        c) Accompany it with the information you received as to the offer to
        distribute corresponding source code. (This alternative is allowed
        only for noncommercial distribution and only if you received the
        program in object code or executable form with such an offer, in
        accord with Subsection b above.)

    The source code for a work means the preferred form of the work for
    making modifications to it. For an executable work, complete source code
    means all the source code for all modules it contains, plus any
    associated interface definition files, plus the scripts used to control
    compilation and installation of the executable. However, as a special
    exception, the source code distributed need not include anything that is
    normally distributed (in either source or binary form) with the major
    components (compiler, kernel, and so on) of the operating system on
    which the executable runs, unless that component itself accompanies the
    executable.

    If distribution of executable or object code is made by offering access
    to copy from a designated place, then offering equivalent access to copy
    the source code from the same place counts as distribution of the source
    code, even though third parties are not compelled to copy the source
    along with the object code.

    4. You may not copy, modify, sublicense, or distribute the Program
    except as expressly provided under this License. Any attempt otherwise
    to copy, modify, sublicense or distribute the Program is void, and will
    automatically terminate your rights under this License. However, parties
    who have received copies, or rights, from you under this License will
    not have their licenses terminated so long as such parties remain in
    full compliance.

    5. You are not required to accept this License, since you have not
    signed it. However, nothing else grants you permission to modify or
    distribute the Program or its derivative works. These actions are
    prohibited by law if you do not accept this License. Therefore, by
    modifying or distributing the Program (or any work based on the
    Program), you indicate your acceptance of this License to do so, and all
    its terms and conditions for copying, distributing or modifying the
    Program or works based on it.

    6. Each time you redistribute the Program (or any work based on the
    Program), the recipient automatically receives a license from the
    original licensor to copy, distribute or modify the Program subject to
    these terms and conditions. You may not impose any further restrictions
```

on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

```
   NO WARRANTY

   11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
   WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
   EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
   OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
   EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
   ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
   YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
   NECESSARY SERVICING, REPAIR OR CORRECTION.

   12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
   WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
   AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
   DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
   DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
   (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
   INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
   THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
   OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

   If you develop a new program, and you want it to be of the greatest
   possible use to the public, the best way to achieve this is to make it
   free software which everyone can redistribute and change under these
terms.

   To do so, attach the following notices to the program. It is safest to
   attach them to the start of each source file to most effectively convey
   the exclusion of warranty; and each file should have at least the
   "copyright" line and a pointer to where the full notice is found.

       One line to give the program's name and a brief idea of what it
does.
       Copyright (C) <year> <name of author>

       This program is free software; you can redistribute it and/or modify
       it under the terms of the GNU General Public License as published by
       the Free Software Foundation; either version 2 of the License, or
       (at your option) any later version.

       This program is distributed in the hope that it will be useful, but
       WITHOUT ANY WARRANTY; without even the implied warranty of
       MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
       General Public License for more details.

       You should have received a copy of the GNU General Public License
       along with this program; if not, write to the Free Software
       Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1335 USA

   Also add information on how to contact you by electronic and paper mail.

   If the program is interactive, make it output a short notice like this
   when it starts in an interactive mode:

       Gnomovision version 69, Copyright (C) year name of author
       Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
       `show w'. This is free software, and you are welcome to redistribute
       it under certain conditions; type `show c' for details.
```

```
    The hypothetical commands `show w' and `show c' should show the
    appropriate parts of the General Public License. Of course, the commands
    you use may be called something other than `show w' and `show c'; they
    could even be mouse-clicks or menu items--whatever suits your program.

    You should also get your employer (if you work as a programmer) or your
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:

        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.

        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice

    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.

---

## CLASSPATH EXCEPTION

    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.

================ End of Reference [12] ================

================ Start of Reference [13] ================
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.
================ End of Reference [13] ================

================ Start of Reference [14] ================
 Copyright (C) 2012 Google Inc.
================ End of Reference [14] ================

================ Start of Reference [15] ================
/*
 * Hibernate Validator, declare and validate application constraints
 *
 * License: Apache License, Version 2.0
 * See the license.txt file in the root directory or <http://www.apache.org/
licenses/LICENSE-2.0>.
 */
```

```
================ End of Reference [15] ================

================ Start of Reference [16] ================
Copyright (C) 2013,2014 Brett Wooldridge
================ End of Reference [16] ================

================ Start of Reference [17] ================
                             Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

    END OF TERMS AND CONDITIONS

==========================================================================

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0
```

```
Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

    (a) that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or

    (b) that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the
        terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
```

```
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or
```

```
(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
```

```
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
```

```
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
```

```
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

================ End of Reference [17] ================

================ Start of Reference [18] ================
Apache HttpComponents Client
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
```

```
The Apache Software Foundation (http://www.apache.org/).
================ End of Reference [18] ================

================ Start of Reference [19] ================
Apache HttpComponents Core
Copyright 2005-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
================ End of Reference [19] ================

================ Start of Reference [20] ================
All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.
================ End of Reference [20] ================

================ Start of Reference [21] ================
Eclipse Public License - v 2.0

    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
```

```
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:
```

```
  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
```

```
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.
```

```
Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.
================ End of Reference [21] ================

================ Start of Reference [22] ================
Copyright (C) 2019 Square, Inc.
================ End of Reference [22] ================

================ Start of Reference [23] ================
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
```

```
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.




================ End of Reference [23] ================

================ Start of Reference [24] ================
Copyright (c) 2004-2017 QOS.ch
================ End of Reference [24] ================

================ Start of Reference [25] ================
Copyright (c) 2004-2017 QOS.ch
================ End of Reference [25] ================

================ Start of Reference [26] ================
Copyright (c) 2008, http://www.snakeyaml.org

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
================ End of Reference [26] ================

================ Start of Reference [27] ================
Apache Tomcat
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This software contains code derived from netty-native
developed by the Netty project
(https://netty.io, https://github.com/netty/netty-tcnative/)
and from finagle-native developed at Twitter
(https://github.com/twitter/finagle).

This software contains code derived from jgroups-kubernetes
developed by the JGroups project (http://www.jgroups.org/).

The Windows Installer is built with the Nullsoft
Scriptable Install System (NSIS), which is
open source software.  The original software and
related information is available at
http://nsis.sourceforge.net.

Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser
```

```
For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
are derivative work originating from the Netty project and the finagle-
native
project developed at Twitter
* Copyright 2014 The Netty Project
* Copyright 2014 Twitter

For portions of the Tomcat cloud support
The org.apache.catalina.tribes.membership.cloud package contains derivative
work originating from the jgroups project.
https://github.com/jgroups-extras/jgroups-kubernetes
Copyright 2002-2018 Red Hat Inc.

The original XML Schemas for Java EE Deployment Descriptors:
 - javaee_5.xsd
 - javaee_web_services_1_2.xsd
 - javaee_web_services_client_1_2.xsd
 - javaee_6.xsd
 - javaee_web_services_1_3.xsd
 - javaee_web_services_client_1_3.xsd
 - jsp_2_2.xsd
 - web-app_3_0.xsd
 - web-common_3_0.xsd
 - web-fragment_3_0.xsd
 - javaee_7.xsd
 - javaee_web_services_1_4.xsd
 - javaee_web_services_client_1_4.xsd
 - jsp_2_3.xsd
 - web-app_3_1.xsd
 - web-common_3_1.xsd
 - web-fragment_3_1.xsd
 - javaee_8.xsd
 - web-app_4_0.xsd
 - web-common_4_0.xsd
 - web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

================ End of Reference [27] ================

================ Start of Reference [28] ================
# Licensed to the Apache Software Foundation (ASF) under one or more
# contributor license agreements.  See the NOTICE file distributed with
# this work for additional information regarding copyright ownership.
# The ASF licenses this file to You under the Apache License, Version 2.0
# (the "License"); you may not use this file except in compliance with
# the License.  You may obtain a copy of the License at
#
#     http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.                      Copyright 1999-2020 The
 Apache Software Foundation
================ End of Reference [28] ================

================ Start of Reference [29] ================
/*
 * JBoss, Home of Professional Open Source.
```

```
 *
 * Copyright 2011 Red Hat, Inc., and individual contributors
 * as indicated by the @author tags.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [29] ================

================ Start of Reference [30] ================
/*
 * Copyright 2014 - Present Rafael Winterhalter
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [30] ================

================ Start of Reference [31] ================
SOFTWARE RIGHTS

ANTLR 1989-2006 Developed by Terence Parr
Partially supported by University of San Francisco & jGuru.com

We reserve no legal rights to the ANTLR--it is fully in the
public domain. An individual or company may do whatever
they wish with source code distributed with ANTLR or the
code generated by ANTLR, including the incorporation of
ANTLR, or its output, into commerical software.

We encourage users to develop software with ANTLR. However,
we do ask that credit is given to us for developing
ANTLR. By "credit", we mean that if you use ANTLR or
incorporate any source code into one of your programs
(commercial product, research project, or otherwise) that
you acknowledge this fact somewhere in the documentation,
research report, etc... If you like ANTLR and have
developed a nice tool with the output, please mention that
you developed it using ANTLR. In addition, we ask that the
headers remain intact in our source code. As long as these
guidelines are kept, we expect to continue enhancing this
system and expect to make other tools available as they are
completed.

The primary ANTLR guy:
```

```
Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org
================ End of Reference [31] ================

================ Start of Reference [32] ================
copyright:
ANTLR 1989-2006 Developed by Terence Parr
Partially supported by University of San Francisco &?jGuru.com

We reserve no legal rights to the ANTLR--it is fully in the
public domain. An individual or company may do whatever
they wish with source code distributed with ANTLR or the
code generated by ANTLR, including the incorporation of
ANTLR, or its output, into commerical software.
================ End of Reference [32] ================

================ Start of Reference [33] ================
Apache Commons Codec
Copyright 2002-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

================ End of Reference [33] ================

================ Start of Reference [34] ================
/*
 * Copyright (C) 2010 The Android Open Source Project
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [34] ================

================ Start of Reference [35] ================
Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
 Copyright (c) 2014 Michael Barker
 Copyright (c) 2014 Matt Warren
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
```

```
    and/or other materials provided with the distribution.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
================ End of Reference [35] ================

================ Start of Reference [36] ================
Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
Copyright (c) 2014 Michael Barker
Copyright (c) 2014 Matt Warren
All rights reserved.
================ End of Reference [36] ================

================ Start of Reference [37] ================

  Copyright (c) 2012, 2013, 2014 Gil Tene
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
  THE POSSIBILITY OF SUCH DAMAGE.
================ End of Reference [37] ================

================ Start of Reference [38] ================
Copyright (c) 2012, 2013, 2014 Gil Tene
All rights reserved.

================ End of Reference [38] ================

================ Start of Reference [39] ================
Copyright ◆ 2008-2009 Seam Framework. All Rights Reserved.
================ End of Reference [39] ================
```

```
================ Start of Reference [40] ================
Apache Commons Logging
Copyright 2003-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
================ End of Reference [40] ================

================ Start of Reference [41] ================
Copyright 2001-2016 (C) MetaStuff, Ltd. and DOM4J contributors. All Rights
 Reserved.

Redistribution and use of this software and associated documentation
("Software"), with or without modification, are permitted provided
that the following conditions are met:

1. Redistributions of source code must retain copyright
   statements and notices.  Redistributions must also contain a
   copy of this document.

2. Redistributions in binary form must reproduce the
   above copyright notice, this list of conditions and the
   following disclaimer in the documentation and/or other
   materials provided with the distribution.

3. The name "DOM4J" must not be used to endorse or promote
   products derived from this Software without prior written
   permission of MetaStuff, Ltd.  For written permission,
   please contact dom4j-info@metastuff.com.

4. Products derived from this Software may not be called "DOM4J"
   nor may "DOM4J" appear in their names without prior written
   permission of MetaStuff, Ltd. DOM4J is a registered
   trademark of MetaStuff, Ltd.

5. Due credit should be given to the DOM4J Project - https://
dom4j.github.io/

THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL
METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

================ End of Reference [41] ================

================ Start of Reference [42] ================
Copyright 2001-2016 (C) MetaStuff, Ltd. and DOM4J contributors. All Rights
 Reserved.
================ End of Reference [42] ================

================ Start of Reference [43] ================
                  GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
```

```
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
```

```
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
```

```
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
```

```
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
```

```
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
```

```
  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.
```

```
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
```

```
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                     END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

<signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!

================ End of Reference [43] ================

================ Start of Reference [44] ================
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
 * License: GNU Lesser General Public License (LGPL), version 2.1 or later.
 * See the lgpl.txt file in the root directory or <http://www.gnu.org/
licenses/lgpl-2.1.html>.
 */
================ End of Reference [44] ================

================ Start of Reference [45] ================
```

```
/*
 * JBoss, Home of Professional Open Source.
 * Copyright 2013 Red Hat, Inc., and individual contributors
 * as indicated by the @author tags.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [45] ================

================ Start of Reference [46] ================
MOZILLA PUBLIC LICENSE  Version 1.1 1. Definitions.  1.0.1. "Commercial
 Use" means distribution or otherwise making the Covered Code available
 to a third party. 1.1. ''Contributor'' means each entity that creates or
 contributes to the creation of Modifications.  1.2. ''Contributor Version''
 means the combination of the Original Code, prior Modifications used by
 a Contributor, and the Modifications made by that particular Contributor.
  1.3. ''Covered Code'' means the Original Code or Modifications or the
 combination of the Original Code and Modifications, in each case including
 portions thereof.  1.4. ''Electronic Distribution Mechanism'' means a
 mechanism generally accepted in the software development community for
 the electronic transfer of data.  1.5. ''Executable'' means Covered
 Code in any form other than Source Code.  1.6. ''Initial Developer''
 means the individual or entity identified as the Initial Developer in
 the Source Code notice required by Exhibit A.  1.7. ''Larger Work''
 means a work which combines Covered Code or portions thereof with code
 not governed by the terms of this License.  1.8. ''License'' means this
 document.  1.8.1. "Licensable" means having the right to grant, to the
 maximum extent possible, whether at the time of the initial grant or
 subsequently acquired, any and all of the rights conveyed herein.  1.9.
 ''Modifications'' means any addition to or deletion from the substance
 or structure of either the Original Code or any previous Modifications.
 When Covered Code is released as a series of files, a Modification is:
  A. Any addition to or deletion from the contents of a file containing
 Original Code or previous Modifications. B. Any new file that contains
 any part of the Original Code or previous Modifications.     1.10.
 ''Original Code'' means Source Code of computer software code which is
 described in the Source Code notice required by Exhibit A as Original
 Code, and which, at the time of its release under this License is not
 already Covered Code governed by this License. 1.10.1. "Patent Claims"
 means any patent claim(s), now owned or hereafter acquired, including
 without limitation,  method, process, and apparatus claims, in any patent
 Licensable by grantor.  1.11. ''Source Code'' means the preferred form
 of the Covered Code for making modifications to it, including all modules
 it contains, plus any associated interface definition files, scripts used
 to control compilation and installation of an Executable, or source code
 differential comparisons against either the Original Code or another well
 known, available Covered Code of the Contributor's choice. The Source
 Code can be in a compressed or archival form, provided the appropriate
 decompression or de-archiving software is widely available for no charge.
 1.12. "You'' (or "Your")  means an individual or a legal entity exercising
 rights under, and complying with all of the terms of, this License or
 a future version of this License issued under Section 6.1. For legal
 entities, "You'' includes any entity which controls, is controlled by,
 or is under common control with You. For purposes of this definition,
```

"control'' means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity. 2. Source Code License. 2.1. The Initial Developer Grant. The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims: (a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and (b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof). (c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License. (d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.
2.2. Contributor Grant. Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license (a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and (b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination). (c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code. (d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor. 3. Distribution Obligations. 3.1. Application of License. The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5. 3.2. Availability of Source Code. Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party. 3.3. Description of

Modifications. You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code. 3.4. Intellectual Property Matters (a) Third Party Claims. If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL'' which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained. (b) Contributor APIs. If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c) Representations. Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License. 3.5. Required Notices. You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer. 3.6. Distribution of Executable Versions. You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient's rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer. 3.7. Larger Works. You may create a Larger Work by combining Covered Code

```
 with other code not governed by the terms of this License and distribute
 the Larger Work as a single product. In such a case, You must make sure
 the requirements of this License are fulfilled for the Covered Code.  4.
 Inability to Comply Due to Statute or Regulation. If it is impossible for
 You to comply with any of the terms of this License with respect to some
 or all of the Covered Code due to statute, judicial order, or regulation
 then You must: (a) comply with the terms of this License to the maximum
 extent possible; and (b) describe the limitations and the code they affect.
 Such description must be included in the LEGAL file described in Section
 3.4 and must be included with all distributions of the Source Code. Except
 to the extent prohibited by statute or regulation, such description must
 be sufficiently detailed for a recipient of ordinary skill to be able to
 understand it. 5. Application of this License. This License applies to code
 to which the Initial Developer has attached the notice in Exhibit A and
 to related Covered Code. 6. Versions of the License. 6.1. New Versions.
  Netscape Communications Corporation (''Netscape'') may publish revised
 and/or new versions of the License from time to time. Each version will be
 given a distinguishing version number. 6.2. Effect of New Versions.  Once
 Covered Code has been published under a particular version of the License,
 You may always continue to use it under the terms of that version. You
 may also choose to use such Covered Code under the terms of any subsequent
 version of the License published by Netscape. No one other than Netscape
 has the right to modify the terms applicable to Covered Code created under
 this License.  6.3. Derivative Works.  If You create or use a modified
 version of this License (which you may only do in order to apply it to
 code which is not already Covered Code governed by this License), You must
 (a) rename Your license so that the phrases ''Mozilla'', ''MOZILLAPL'',
 ''MOZPL'', ''Netscape'', "MPL", ''NPL'' or any confusingly similar phrase
 do not appear in your license (except to note that your license differs
 from this License) and (b) otherwise make it clear that Your version of
 the license contains terms which differ from the Mozilla Public License
 and Netscape Public License. (Filling in the name of the Initial Developer,
 Original Code or Contributor in the notice described in Exhibit A shall
 not of themselves be deemed to be modifications of this License.)  7.
 DISCLAIMER OF WARRANTY. COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN
 "AS IS'' BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
 INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE
 OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING.
 THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS
 WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT
 THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
 NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
 CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE
 IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER. 8. TERMINATION. 8.1.
  This License and the rights granted hereunder will terminate automatically
 if You fail to comply with terms herein and fail to cure such breach
 within 30 days of becoming aware of the breach. All sublicenses to the
 Covered Code which are properly granted shall survive any termination of
 this License. Provisions which, by their nature, must remain in effect
 beyond the termination of this License shall survive. 8.2.  If You initiate
 litigation by asserting a patent infringement claim (excluding declatory
 judgment actions) against Initial Developer or a Contributor (the Initial
 Developer or Contributor against whom You file such action is referred to
 as "Participant")  al
================ End of Reference [46] ================

================ Start of Reference [47] ================
/*
 * Javassist, a Java-bytecode translator toolkit.
 * Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
 *
 * The contents of this file are subject to the Mozilla Public License
 Version
 * 1.1 (the "License"); you may not use this file except in compliance with
```

```
 * the License.  Alternatively, the contents of this file may be used under
 * the terms of the GNU Lesser General Public License Version 2.1 or later,
 * or the Apache License Version 2.0.
 *
 * Software distributed under the License is distributed on an "AS IS"
 basis,
 * WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 * for the specific language governing rights and limitations under the
 * License.
 */
================ End of Reference [47] ================

================ Start of Reference [48] ================
Copyright (c) 2002-2016, the original author or authors.
All rights reserved.

http://www.opensource.org/licenses/bsd-license.php

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.


================ End of Reference [48] ================

================ Start of Reference [49] ================
Copyright (c) 2002-2016, the original author or authors.

This software is distributable under the BSD license. See the terms of the
BSD license in the documentation provided with this software.

http://www.opensource.org/licenses/bsd-license.php
================ End of Reference [49] ================

================ Start of Reference [50] ================
/*
 * Copyright 2013 Stephen Connolly.
 *
```

```
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [50] ================

================ Start of Reference [51] ================
Apache Maven
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
================ End of Reference [51] ================

================ Start of Reference [52] ================
Copyright 2013 Square, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
================ End of Reference [52] ================

================ Start of Reference [53] ================

Copyright (c) 2010, 2015 Sonatype, Inc.
All rights reserved. This program and the accompanying materials
are made available under the terms of the Eclipse Public License v1.0
 which accompanies this distribution, and is available at
 http://www.eclipse.org/legal/epl-v10.html

Contributors:
Stuart McCulloch (Sonatype, Inc.) - initial API and implementation

================ End of Reference [53] ================

================ Start of Reference [54] ================
Copyright (c) 2010, 2015 Sonatype, Inc.
All rights reserved. This program and the accompanying materials
are made available under the terms of the Eclipse Public License v1.0
 which accompanies this distribution, and is available at
 http://www.eclipse.org/legal/epl-v10.html

Contributors:
Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
================ End of Reference [54] ================

================ Start of Reference [55] ================
/*
```

```
 * Copyright 2001-2010 Codehaus Foundation.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */


================ End of Reference [55] ================

================ Start of Reference [56] ================
/*
 * Copyright (C) 2007 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [56] ================

================ Start of Reference [57] ================

/*
 * Copyright The Codehaus Foundation.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [57] ================

================ Start of Reference [58] ================
/**
 * Copyright (C) 2006 Google Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
```

```
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [58] ================

================ Start of Reference [59] ================
/
*****************************************************************************
 * Copyright (c) 2010, 2013 Sonatype, Inc.
 * All rights reserved. This program and the accompanying materials
 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *    Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
 *****************************************************************************/
================ End of Reference [59] ================

================ Start of Reference [60] ================
Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with
this code has waived all copyright and related or neighboring
rights to this code.

You should have received a copy of the CC0 legalcode along with this
work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.

================ End of Reference [60] ================

================ Start of Reference [61] ================
Licensed under Public Domain (CC0)

To the extent possible under law, the person who associated CC0 with
this code has waived all copyright and related or neighboring
rights to this code.

You should have received a copy of the CC0 legalcode along with this
work. If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.
================ End of Reference [61] ================
```

Provider: Pivotal Software, Inc / Component(s): Spring Boot Actuator 2.1.2

```
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
```

```
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
```

```
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
```

```
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Pivotal Software, Inc / Component(s): Spring Retry 1.3.1

```
spring-retry 1.3.1

/*
 * Copyright 2014 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.

 */Copyright notice: [3]

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

***4th Party dependencies****
spring-core 5.3.6
spring-jcl 5.3.6

License: Apache License Version 2.0

Spring Framework ${version}
Copyright (c) 2002-${copyright} Pivotal, Inc.
This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.
This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.

commons-logging 1.2
Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

Provider: Plotly / Component(s): plotly.js 1.43.1

```
plotly.js v1.43.1
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2018 Plotly, Inc

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



=========================
4P Dependencies:


3d-view v2.0.0
COPYRIGHT and LICENSE:

The MIT License (MIT)

Copyright (c) 2015 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
@plotly/d3-sankey 0.5.1
COPYRIGHT and LICENSE:
Copyright 2015, Mike Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the author nor the names of contributors may be used
 to
  endorse or promote products derived from this software without specific
 prior
  written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
alpha-shape 1.0.0
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
array-range 1.0.1
COPYRIGHT and LICENSE:

The MIT License (MIT) Copyright (c) 2014 Matt DesLauriers

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



---
canvas-fit 1.5.0
COPYRIGHT and LICENSE:

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


---
color-normalize 1.3.0
COPYRIGHT and LICENSE:
(c) 2017 Dima Yv.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
```

```
convex-hull 1.0.3
COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2017 Thomas Thelen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---
country-regex 1.1.0
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2017  Étienne Tétreault-Pinard

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---
d3 3.5.12
COPYRIGHT and LICENSE:
Copyright (c) 2010-2015, Michael Bostock
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* The name Michael Bostock may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
d3-force 1.0.6
COPYRIGHT and LICENSE:
Copyright 2010-2016 Mike Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the author nor the names of contributors may be used
 to
  endorse or promote products derived from this software without specific
 prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
```

```
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
delaunay-triangulate 1.1.6
COPYRIGHT and LICENSE:

Copyright (C) 2018 Michael Fogleman

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


---
es6-promise 3.0.2
COPYRIGHT and LICENSE:
Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
---
fast-isnumeric 1.1.2
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Alex Johnson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



--
font-atlas-sdf 1.3.3

COPYRIGHT and LICENSE:
(c) Dmitry Yv <dfcreative@gmail.com>
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---
gl-cone3d 1.2.1
COPYRIGHT and LICENSE:
The MIT License (MIT)
```

```
Copyright (c) 2013-2017 Mikola Lysenko, Ilmari Heikkinen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
gl-contour2d 1.1.4
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
gl-error3d 1.0.9
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
gl-heatmap2d 1.0.4
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
gl-line3d 1.1.6
COPYRGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
gl-mat 41.2.0
COPYRIGHT and LICENSE:

Copyright (c) 2013 Brandon Jones, Colin MacKenzie IV

This software is provided 'as-is', without any express or implied warranty.
 In no event will the authors be held liable for any damages arising from
 the use of this software.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



---
gl-mesh3d 2.0.2
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
gl-plot2d 1.4.0
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
gl-plot3d 1.6.1
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
---
gl-pointcloud2d 1.0.1
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



---
gl-scatter3d 1.1.2
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---

gl-select-box 1.0.2
COPYRIGHT and LICENSE:
The MIT License (MIT)
```

```
Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



---
gl-spikes2d 1.0.1
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



---
gl-streamtube3d 1.1.1
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013-2017 Mikola Lysenko, Ilmari Heikkinen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
gl-surface3d 1.4.0
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2014 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
gl-text 1.1.6
COPYRIGHT and LICENSE:
Copyright (c) 2012 The go-gl Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
     copyright notice, this list of conditions and the following disclaimer
     in the documentation and/or other materials provided with the
     distribution.
   * Neither the name of go-gl nor the names of its contributors may be used
     to endorse or promote products derived from this software without
 specific
     prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
glslify 6.3.1
COPYRIGHT and LICENSE:
The MIT License (MIT)

    Copyright © 2015 Chris Dickinson
    Copyright © 2015 stackgl contributors

stackgl contributors listed at https://github.com/stackgl/contributing/blob/
master/CONTRIBUTING.md#contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



---
has-hover 1.0.1
COPYRIGHT: (c) Dima Yv <df.creative@gmail.com>
LICENSE:

The MIT License (MIT)

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
     copyright notice, this list of conditions and the following disclaimer
     in the documentation and/or other materials provided with the
     distribution.
   * Neither the name of go-gl nor the names of its contributors may be used
```

```
     to endorse or promote products derived from this software without
 specific
     prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
has-passive-events 1.0.0
COPYRIGHT and LICENSE:

The MIT License (MIT)

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
     copyright notice, this list of conditions and the following disclaimer
     in the documentation and/or other materials provided with the
     distribution.
   * Neither the name of go-gl nor the names of its contributors may be used
     to endorse or promote products derived from this software without
 specific
     prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
mapbox-gl 0.45.0
COPYRIGHT and LICENSE:
Copyright (c) 2016, Mapbox

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
```

```
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Mapbox GL JS nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

Contains glmatrix.js

Copyright (c) 2013, Brandon Jones, Colin MacKenzie IV. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
 this
    list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

Contains Hershey Simplex Font: http://paulbourke.net/dataformats/hershey/

--------------------------------------------------------------------------------
```

```
Contains code from glfx.js

Copyright (C) 2011 by Evan Wallace

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------

Contains a portion of d3-color https://github.com/d3/d3-color

Copyright 2010-2016 Mike Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the author nor the names of contributors may be used
 to
  endorse or promote products derived from this software without specific
 prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
matrix-camera-controller 2.1.3
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
mouse-change 1.4.0
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

---
mouse-event-offset 3.0.2
COPYRIGHT and LICENSE:
```

```
The MIT License (MIT) Copyright (c) 2014 Matt DesLauriers

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



---
mouse-wheel 1.0.2
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
ndarray 1.0.18
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013-2016 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
ndarray-fill 1.0.2
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
ndarray-homography 1.0.0
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



---
point-cluster 3.1.4
COPYRIGHT and LICENSE:

The MIT License (MIT)

Copyright (c) 2017 Dmitry Ivanov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



---
polybooljs 1.2.0
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2016 Sean Connelly (@voidqk, web: syntheti.cc)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.


---
regl 1.3.11
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2016 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
regl-error2d 2.0.5
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2017 Dmitry Ivanov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---
regl-line2d 3.0.12
COPYRIGHT and LICENSE:
```

```
The MIT License (MIT)

Copyright (c) 2017 Dmitry Ivanov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---
regl-scatter2d 3.1.2
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2017 Dmitry Ivanov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---
regl-splom 1.0.5
COPYRIGHT and LICENSE:

The MIT License (MIT)
```

Copyright (c) 2018 Dmitry Ivanov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

---
right-now 1.0.0
COPYRIGHT and LICENSE:

This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

---
robust-orientation 1.1.3
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2013 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

```
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
sane-topojson 2.0.0
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015  Étienne Tétreault-Pinard

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---
strongly-connected-components 1.0.1

COPYRIGHT and LICENSE:
The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
superscript-text 1.0.0
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Mikola Lysenko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.



---
svg-path-sdf 1.1.3
COPYRIGHT and LICENSE:

The MIT License (MIT)

(c) 2017 Dima Yv. MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

```
---
tinycolor2 1.3.0
COPYRIGHT and LICENSE:
Copyright (c), Brian Grinstead, http://briangrinstead.com

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



---
topojson-client 2.1.0
COPYRIGHT and LICENSE:

Copyright (c) 2012-2016, Michael Bostock All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    The name Michael Bostock may not be used to endorse or promote products
 derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL MICHAEL BOSTOCK BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.



---
webgl-context 2.2.0
COPYRIGHT and LICENSE:

The MIT License (MIT) Copyright (c) 2014 Matt DesLauriers
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



---
world-calendars 1.0.3

COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2016 alexcjohnson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: PostgreSQL Database Management System / Component(s): PostgreSQL 10.5

```
APIs from the following product are included
PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)

Portions Copyright (c) 1996-2019, PostgreSQL Global Development Group

Portions Copyright (c) 1994, The Regents of the University of California

Permission to use, copy, modify, and distribute this software and its
```

```
documentation for any purpose, without fee, and without a written agreement
is hereby granted, provided that the above copyright notice and this
paragraph and the following two paragraphs appear in all copies.

IN NO EVENT SHALL THE UNIVERSITY OF CALIFORNIA BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING
LOST PROFITS, ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS
DOCUMENTATION, EVEN IF THE UNIVERSITY OF CALIFORNIA HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE UNIVERSITY OF CALIFORNIA SPECIFICALLY DISCLAIMS ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE.  THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE UNIVERSITY OF CALIFORNIA HAS NO OBLIGATIONS TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.
```

Provider: Pranesh Ravi / Component(s): react-diff-viewer 2.0.0

```
COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2018 Pranesh Ravi

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



======================
4P Dependencies:


"classnames": "^2.2.6"
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2017 Jed Watson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---
"create-emotion": "^10.0.14"
"emotion": "^10.0.14"
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2016 Kye Hohenberger

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---
"diff": "^4.0.1"
COPYRIGHT and LICENSE:
Software License Agreement (BSD License)

Copyright (c) 2009-2015, Kevin Decker <kpdecker@gmail.com>

All rights reserved.

Redistribution and use of this software in source and binary forms, with or
 without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
```

```
  following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.

* Neither the name of Kevin Decker nor the names of its
  contributors may be used to endorse or promote products
  derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.


---
"memoize-one": "^5.0.4"
COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2019 Alexander Reardon

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---
"prop-types": "^15.6.2"
COPYRIGHT and LICENSE:
```

```
MIT License

Copyright (c) 2013-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---
"react": "^15.3.0 || ^16.0.0"
"react-dom": "^15.3.0 || ^16.0.0"
COPYRIGHT and LICENSE:
MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Progress Software / Component(s): ODBC Drivers 7.1.6

```
The DataDirect component provided with this Oracle Program is distributed
 only for use
```

```
with Oracle Program.
```

Provider: Project Jupyter Contributors / Component(s): jupyterlab 0.35.3

```
BSD 3-Clause License
https://github.com/jupyterlab/jupyterlab/blob/master/LICENSE
Copyright (c) 2015 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Semver File License
-----------------

The semver.py file is from https://github.com/podhmo/python-semver
which is licensed under the "MIT" license.  See the semver.py file for
 details.

------------------------
Fourth party dependencies
------------------------

Dependency 1:

Name: notebook 5.7.4
https://github.com/jupyter/notebook
https://github.com/jupyter/notebook/blob/master/COPYING.md
COPYRIGHT: Jupyter Development Team
LICENSE:BSD 3-Clause License

Licensing terms
This project is licensed under the terms of the Modified BSD License (also
 known as New or Revised or 3-Clause BSD), as follows:

Copyright (c) 2001-2015, IPython Development Team
```

```
Copyright (c) 2015-, Jupyter Development Team
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the Jupyter Development Team nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

About the Jupyter Development Team
The Jupyter Development Team is the set of all contributors to the Jupyter
 project. This includes all of the Jupyter subprojects.

The core team that coordinates development on GitHub can be found here:
 https://github.com/jupyter/.

Our Copyright Policy
Jupyter uses a shared copyright model. Each contributor maintains copyright
 over their contributions to Jupyter. But, it is important to note that
 these contributions are typically only changes to the repositories. Thus,
 the Jupyter source code, in its entirety is not the copyright of any
 single person or institution. Instead, it is the collective copyright
 of the entire Jupyter Development Team. If individual contributors want
 to maintain a record of what changes/contributions they have specific
 copyright on, they should indicate their copyright in the commit message of
 the change, when they commit the change to one of the Jupyter repositories.

With this in mind, the following banner should be used in any source code
 file to indicate the copyright and license terms:

# Copyright (c) Jupyter Development Team.
# Distributed under the terms of the Modified BSD License.

Dependency 2:

Name: jupyterlab-server 0.2.0
https://github.com/jupyterlab/jupyterlab_server
https://github.com/jupyterlab/jupyterlab_server/blob/master/LICENSE
COPYRIGHT: Project Jupyter Contributors
LICENSE:BSD 3-Clause License

Copyright (c) 2015-2017, Project Jupyter Contributors
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


JSON Minify File License
-----------------

The json_minify.py file is from
https://github.com/getify/JSON.minify/tree/python
which is licensed under the "MIT" license.  See the json_minify.py file for
details.
```

Provider: Project Jupyter Contributors / Component(s): jupyterlab 3.6.6

```
===================================Third Party
 Info===================================
jupyterlab
BSD License
Copyright (c) 2015-2021 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Semver File License
===================

The semver.py file is from https://github.com/podhmo/python-semver
which is licensed under the "MIT" license.  See the semver.py file for
 details.

===================================Fourth Party
 Info===================================
##########################################
Fourth party public dependencies
##########################################
aiofiles
aiosqlite
anyio
appnope
argon2-cffi
argon2-cffi-bindings
asttokens
attrs
babel
beautifulsoup4
bleach
certifi
cffi
charset-normalizer
comm
debugpy
decorator
defusedxml
entrypoints
executing
fastjsonschema
idna
ipykernel
ipython
ipython-genutils
jedi
jinja2
json5
jsonschema
jsonschema-specifications
jupyter-client
jupyter-core
jupyter-events
jupyter-server
jupyter-server-fileid
jupyter-server-terminals
jupyter-server-ydoc
jupyter-ydoc
```

```
jupyterlab
jupyterlab-pygments
jupyterlab-server
markupsafe
matplotlib-inline
mistune
nbclassic
nbclient
nbconvert
nbformat
nest-asyncio
notebook
notebook-shim
overrides
packaging
pandocfilters
parso
pexpect
platformdirs
prometheus-client
prompt-toolkit
psutil
ptyprocess
pure-eval
pycparser
pygments
python-dateutil
python-json-logger
pyyaml
pyzmq
referencing
requests
rfc3339-validator
rfc3986-validator
rpds-py
send2trash
six
sniffio
soupsieve
stack-data
terminado
tinycss2
tornado
traitlets
urllib3
wcwidth
webencodings
websocket-client
y-py
ypy-websocket
-----------------------------------------------
aiofiles
Apache Software License

-----------------------------------------------
aiosqlite
MIT License
MIT License

Copyright (c) 2022 Amethyst Reese

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
anyio
MIT License
The MIT License (MIT)

Copyright (c) 2018 Alex Grönholm

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
appnope
BSD License
this project is licensed under 2-clause BSD

Copyright (c) 2013, Min Ragan-Kelley

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
```

```
list of conditions and the following disclaimer.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
argon2-cffi
MIT License
The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the argon2-cffi contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
argon2-cffi-bindings
MIT License
The MIT License (MIT)

Copyright (c) 2021 Hynek Schlawack

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
asttokens
Apache 2.0

----------------------------------------------
attrs
MIT License
The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the attrs contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
babel
BSD License
Copyright (c) 2013-2023 by the Babel Team, see AUTHORS for more information.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.
 3. Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
beautifulsoup4
MIT License
Beautiful Soup is made available under the MIT license:

 Copyright (c) Leonard Richardson

 Permission is hereby granted, free of charge, to any person obtaining
 a copy of this software and associated documentation files (the
 "Software"), to deal in the Software without restriction, including
 without limitation the rights to use, copy, modify, merge, publish,
 distribute, sublicense, and/or sell copies of the Software, and to
 permit persons to whom the Software is furnished to do so, subject to
 the following conditions:

 The above copyright notice and this permission notice shall be
 included in all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 SOFTWARE.

Beautiful Soup incorporates code from the html5lib library, which is
also made available under the MIT license. Copyright (c) James Graham
and other contributors

Beautiful Soup has an optional dependency on the soupsieve library,
which is also made available under the MIT license. Copyright (c)
Isaac Muse

----------------------------------------------
bleach
Apache Software License

----------------------------------------------
certifi
Mozilla Public License 2.0 (MPL 2.0)
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
```

```
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

----------------------------------------------
cffi
MIT License

Except when otherwise stated (look for LICENSE files in directories or
information at the beginning of each file) all software and
documentation is licensed as follows:

    The MIT License

    Permission is hereby granted, free of charge, to any person
    obtaining a copy of this software and associated documentation
    files (the "Software"), to deal in the Software without
    restriction, including without limitation the rights to use,
    copy, modify, merge, publish, distribute, sublicense, and/or
    sell copies of the Software, and to permit persons to whom the
    Software is furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
    in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
    OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
    THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
    DEALINGS IN THE SOFTWARE.


----------------------------------------------
charset-normalizer
MIT License
MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
----------------------------------------------
comm
BSD License
BSD 3-Clause License

Copyright (c) 2022, Jupyter
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
debugpy
MIT License
    debugpy

    Copyright (c) Microsoft Corporation
    All rights reserved.

    MIT License

    Permission is hereby granted, free of charge, to any person obtaining a
 copy of
    this software and associated documentation files (the "Software"), to
 deal in
    the Software without restriction, including without limitation the
 rights to
    use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
```

```
    the Software, and to permit persons to whom the Software is furnished to
 do so,
    subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
    FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR
    COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
    IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
    CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 SOFTWARE.


----------------------------------------------
decorator
BSD License
Copyright (c) 2005-2018, Michele Simionato
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
  Redistributions in bytecode form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

----------------------------------------------
defusedxml
Python Software Foundation License
PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF
hereby grants Licensee a nonexclusive, royalty-free, world-wide
```

```
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python
alone or in any derivative version, provided, however, that PSF's
License Agreement and PSF's notice of copyright, i.e., "Copyright (c)
2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


----------------------------------------------
entrypoints
MIT License
The MIT License (MIT)

Copyright (c) 2015 Thomas Kluyver and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
executing
MIT License
MIT License

Copyright (c) 2019 Alex Hall

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
fastjsonschema
BSD License
Copyright (c) 2018, Michal Horejsek
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

  Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

  Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

  Neither the name of the {organization} nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
```

```
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
idna
BSD License
BSD 3-Clause License

Copyright (c) 2013-2023, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
ipykernel
BSD License
BSD 3-Clause License

Copyright (c) 2015, IPython Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
ipython
BSD License
BSD 3-Clause License

- Copyright (c) 2008-Present, IPython Development Team
- Copyright (c) 2001-2007, Fernando Perez <fernando.perez@colorado.edu>
- Copyright (c) 2001, Janko Hauser <jhauser@zscout.de>
- Copyright (c) 2001, Nathaniel Gray <n8gray@caltech.edu>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
ipython-genutils
BSD License
UNKNOWN
```

```
---------------------------------------------
jedi
MIT License
All contributions towards Jedi are MIT licensed.

--------------------------------------------------------------------------------
The MIT License (MIT)

Copyright (c) <2013> <David Halter and others, see AUTHORS.txt>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

---------------------------------------------
jinja2
BSD License
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------
json5
```

```
Apache Software License

----------------------------------------------
jsonschema
MIT License
Copyright (c) 2013 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
jsonschema-specifications
MIT License
Copyright (c) 2022 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
jupyter-client


----------------------------------------------
jupyter-core


----------------------------------------------
jupyter-events
BSD License
BSD 3-Clause License
```

```
Copyright (c) 2022-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
jupyter-server


----------------------------------------------
jupyter-server-fileid


----------------------------------------------
jupyter-server-terminals


----------------------------------------------
jupyter-server-ydoc


----------------------------------------------
jupyter-ydoc
BSD 3-Clause License
BSD 3-Clause License

Copyright (c) 2022, David Brochart
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
jupyterlab
BSD License
Copyright (c) 2015-2021 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Semver File License
===================

The semver.py file is from https://github.com/podhmo/python-semver
which is licensed under the "MIT" license.  See the semver.py file for
 details.
```

```
---------------------------------------------
jupyterlab-pygments


---------------------------------------------
jupyterlab-server


---------------------------------------------
markupsafe
BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------
matplotlib-inline
BSD 3-Clause
BSD 3-Clause License

Copyright (c) 2019-2022, IPython Development Team.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
mistune
BSD License
Copyright (c) 2014, Hsiaoming Yang

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the creator nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
nbclassic
BSD License
BSD 3-Clause License

Copyright (c) 2020 Project Jupyter Contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
```

```
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
nbclient
BSD License
BSD 3-Clause License

Copyright (c) 2020-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
nbconvert
BSD License
BSD 3-Clause License
```

```
- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
nbformat
BSD License
BSD 3-Clause License

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
```

```
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
nest-asyncio
BSD License
BSD 2-Clause License

Copyright (c) 2018-2020, Ewald de Wit
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
notebook
BSD License
This project is licensed under the terms of the Modified BSD License
(also known as New or Revised or 3-Clause BSD), as follows:

- Copyright (c) 2001-2015, IPython Development Team
- Copyright (c) 2015-, Jupyter Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
other materials provided with the distribution.
```

```
Neither the name of the Jupyter Development Team nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## About the Jupyter Development Team

The Jupyter Development Team is the set of all contributors to the Jupyter
 project.
This includes all of the Jupyter subprojects.

The core team that coordinates development on GitHub can be found here:
https://github.com/jupyter/.

## Our Copyright Policy

Jupyter uses a shared copyright model. Each contributor maintains copyright
over their contributions to Jupyter. But, it is important to note that these
contributions are typically only changes to the repositories. Thus, the
 Jupyter
source code, in its entirety is not the copyright of any single person or
institution.  Instead, it is the collective copyright of the entire Jupyter
Development Team.  If individual contributors want to maintain a record of
 what
changes/contributions they have specific copyright on, they should indicate
their copyright in the commit message of the change, when they commit the
change to one of the Jupyter repositories.

With this in mind, the following banner should be used in any source code
 file
to indicate the copyright and license terms:

    # Copyright (c) Jupyter Development Team.
    # Distributed under the terms of the Modified BSD License.

----------------------------------------------
notebook-shim


----------------------------------------------
overrides
Apache License, Version 2.0

----------------------------------------------
packaging
Apache Software License; BSD License
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.
```

```
----------------------------------------------
pandocfilters
BSD License
Copyright (c) 2013, John MacFarlane
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 - Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

 - Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 - Neither the name of John Macfarlane nor the names of its contributors may
   be used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
parso
MIT License
All contributions towards parso are MIT licensed.

Some Python files have been taken from the standard library and are
 therefore
PSF licensed. Modifications on these files are dual licensed (both MIT and
PSF). These files are:

- parso/pgen2/*
- parso/tokenize.py
- parso/token.py
- test/test_pgen2.py

Also some test files under test/normalizer_issue_files have been copied from
https://github.com/PyCQA/pycodestyle (Expat License == MIT License).

-------------------------------------------------------------------------------
The MIT License (MIT)

Copyright (c) <2013-2017> <David Halter and others, see AUTHORS.txt>

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015 Python Software Foundation; All Rights
 Reserved"
are retained in Python alone or in any derivative version prepared by
 Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
```

```
7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

----------------------------------------------
pexpect
ISC License (ISCL)
ISC LICENSE

    This license is approved by the OSI and FSF as GPL-compatible.
        http://opensource.org/licenses/isc-license.txt

    Copyright (c) 2013-2014, Pexpect development team
    Copyright (c) 2012, Noah Spurrier <noah@noah.org>

    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
    OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


----------------------------------------------
platformdirs
MIT License
MIT License

Copyright (c) 2010-202x The platformdirs developers

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
```

```
prometheus-client
Apache Software License

-----------------------------------------------
prompt-toolkit
BSD License
Copyright (c) 2014, Jonathan Slenders
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

* Neither the name of the {organization} nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------
psutil
BSD License
BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
ptyprocess
ISC License (ISCL)
Ptyprocess is under the ISC license, as code derived from Pexpect.
    http://opensource.org/licenses/ISC

Copyright (c) 2013-2014, Pexpect development team
Copyright (c) 2012, Noah Spurrier <noah@noah.org>

PERMISSION TO USE, COPY, MODIFY, AND/OR DISTRIBUTE THIS SOFTWARE FOR ANY
 PURPOSE
WITH OR WITHOUT FEE IS HEREBY GRANTED, PROVIDED THAT THE ABOVE COPYRIGHT
 NOTICE
AND THIS PERMISSION NOTICE APPEAR IN ALL COPIES. THE SOFTWARE IS PROVIDED
"AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT
SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
 CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
 PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
 ARISING
OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


----------------------------------------------
pure-eval
MIT License
MIT License

Copyright (c) 2019 Alex Hall

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
```

```
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
pycparser
BSD License
pycparser -- A C parser in Python

Copyright (c) 2008-2020, Eli Bendersky
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of Eli Bendersky nor the names of its contributors may
  be used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.

----------------------------------------------
pygments
BSD License
Copyright (c) 2006-2022 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
```

```
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
python-dateutil
Apache Software License; BSD License
Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.
----------------------------------------------
python-json-logger
BSD License
Copyright (c) 2011, Zakaria Zajac
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
pyyaml
MIT License
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
pyzmq
BSD License; GNU Library or Lesser General Public License (LGPL)
PyZMQ is licensed under the terms of the Modified BSD License (also known as
New or Revised BSD), as follows:

Copyright (c) 2009-2012, Brian Granger, Min Ragan-Kelley

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
other materials provided with the distribution.

Neither the name of PyZMQ nor the names of its contributors may be used to
endorse or promote products derived from this software without specific
 prior
written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
referencing
MIT License
Copyright (c) 2022 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
requests
Apache Software License

----------------------------------------------
rfc3339-validator
MIT License
MIT License

Copyright (c) 2019, Nicolas Aimetti

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


----------------------------------------------
rfc3986-validator
MIT License
MIT License

Copyright (c) 2019, Nicolas Aimetti

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


----------------------------------------------
rpds-py
MIT License
Copyright (c) 2023 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
send2trash
BSD License
Copyright (c) 2017, Virgil Dupras
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    * Neither the name of Hardcoded Software Inc. nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

```
----------------------------------------------
six
MIT License
Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
sniffio
Apache Software License; MIT License
This software is made available under the terms of *either* of the
licenses found in LICENSE.APACHE2 or LICENSE.MIT. Contributions to are
made under the terms of *both* these licenses.

----------------------------------------------
soupsieve
MIT License
MIT License

Copyright (c) 2018 - 2023 Isaac Muse <isaacmuse@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
stack-data
MIT License
MIT License

Copyright (c) 2019 Alex Hall

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
terminado
BSD License
BSD 2-Clause License

- Copyright (c) 2014-, Jupyter development team
- Copyright (c) 2014, Ramalingam Saravanan <sarava@sarava.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
```

```
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
tinycss2
BSD License
BSD 3-Clause License

Copyright (c) 2013-2020, Simon Sapin and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
tornado
Apache Software License

----------------------------------------------
traitlets
BSD License
BSD 3-Clause License

- Copyright (c) 2001-, IPython Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
urllib3
MIT License
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
wcwidth


----------------------------------------------
webencodings
BSD License
UNKNOWN
----------------------------------------------
websocket-client
Apache Software License

----------------------------------------------
y-py
MIT License
The MIT License (MIT)
```

```
Copyright (c) 2020
  - Bartosz Sypytkowski <b.sypytkowski@gmail.com>
  - Kevin Jahns <kevin.jahns@pm.me>.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
ypy-websocket
UNKNOWN
MIT License

Copyright (c) 2022 David Brochart

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
===================================Licenses===================================
Apache Software License

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2023 engn33r

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


-----------------------------------------------
Apache 2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------------------
Apache License, Version 2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


-----------------------------------------------
```

Provider: Project Lombok / Component(s): Lombok 1.16.10

```
https://projectlombok.org/
Copyright © 2009-2016 The Project Lombok Authors, licensed under the MIT
 license.
Credits: https://projectlombok.org/credits.html
License: http://www.opensource.org/licenses/mit-license.php
The MIT License (MIT)
Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Project Lombok / Component(s): Lombok 1.16.14

```
https://projectlombok.org/
Copyright © 2009-2016 The Project Lombok Authors, licensed under the MIT
 license.
Credits: https://projectlombok.org/credits.html
License: http://www.opensource.org/licenses/mit-license.php
The MIT License (MIT)
Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Project Lombok / Component(s): Lombok 1.16.16

```
https://projectlombok.org/
Copyright © 2009-2016 The Project Lombok Authors, licensed under the MIT
 license.
Credits: https://projectlombok.org/credits.html
License: http://www.opensource.org/licenses/mit-license.php
The MIT License (MIT)
Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Project Lombok / Component(s): Lombok 1.16.20

```
https://projectlombok.org/
Copyright © 2009-2016 The Project Lombok Authors, licensed under the MIT
 license.
Credits: https://projectlombok.org/credits.html
License: http://www.opensource.org/licenses/mit-license.php
The MIT License (MIT)
Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Project Lombok / Component(s): Lombok 1.16.7

```
https://projectlombok.org/
Copyright © 2009-2016 The Project Lombok Authors, licensed under the MIT
 license.
Credits: https://projectlombok.org/credits.html
License: http://www.opensource.org/licenses/mit-license.php
The MIT License (MIT)
Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Project Lombok / Component(s): Lombok 1.18.10

```
Copyright (C) 2009-2015 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Project Lombok / Component(s): Lombok 1.18.22

```
========== COPYRIGHT NOTICE ===========

Copyright (C) 2009-2021 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

================================================================================
Licenses for included components:

org.ow2.asm:asm
org.ow2.asm:asm-analysis
org.ow2.asm:asm-commons
org.ow2.asm:asm-tree
org.ow2.asm:asm-util
ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.
```

```
 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
rzwitserloot/com.zwitserloot.cmdreader

 Copyright Â© 2010 Reinier Zwitserloot.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.

--------------------------------------------------------------------------------

projectlombok/lombok.patcher

 Copyright (C) 2009-2021 The Project Lombok Authors.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.

--------------------------------------------------------------------------------

========== COPYRIGHT NOTICE END ===========
```

Provider: Project Lombok / Component(s): Lombok 1.18.24

```
========== COPYRIGHT NOTICE ===========

Copyright (C) 2009-2022 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

================================================================================
Licenses for included components:

org.ow2.asm:asm
org.ow2.asm:asm-analysis
org.ow2.asm:asm-commons
org.ow2.asm:asm-tree
org.ow2.asm:asm-util
ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
```

```
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
rzwitserloot/com.zwitserloot.cmdreader

 Copyright Â© 2010 Reinier Zwitserloot.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.

--------------------------------------------------------------------------------

projectlombok/lombok.patcher

 Copyright (C) 2009-2022 The Project Lombok Authors.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.

--------------------------------------------------------------------------------

========== COPYRIGHT NOTICE END ===========
```

Provider: Project Lombok / Component(s): Lombok 1.18.28

```
========== COPYRIGHT NOTICE ===========

Copyright (C) 2009-2021 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

================================================================================
Licenses for included components:

org.ow2.asm:asm
org.ow2.asm:asm-analysis
org.ow2.asm:asm-commons
org.ow2.asm:asm-tree
org.ow2.asm:asm-util
ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
```

```
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
rzwitserloot/com.zwitserloot.cmdreader

 Copyright Â© 2010 Reinier Zwitserloot.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.

--------------------------------------------------------------------------------

projectlombok/lombok.patcher

 Copyright (C) 2009-2021 The Project Lombok Authors.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.

--------------------------------------------------------------------------------

========== COPYRIGHT NOTICE END ===========
```

Provider: Project Lombok / Component(s): Lombok 1.18.30

```
========== COPYRIGHT NOTICE ===========

Copyright (C) 2009-2021 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

================================================================================
Licenses for included components:

org.ow2.asm:asm
org.ow2.asm:asm-analysis
org.ow2.asm:asm-commons
org.ow2.asm:asm-tree
org.ow2.asm:asm-util
ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
rzwitserloot/com.zwitserloot.cmdreader

 Copyright Â© 2010 Reinier Zwitserloot.

 Permission is hereby granted, free of charge, to any person obtaining a
 copy
 of this software and associated documentation files (the "Software"), to
 deal
 in the Software without restriction, including without limitation the
 rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.

--------------------------------------------------------------------------------

========== COPYRIGHT NOTICE END ===========
```

Provider: Project Lombok / Component(s): Lombok 1.18.4

```
Copyright (C) 2009-2015 The Project Lombok Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
```

```
THE SOFTWARE.
```

Provider: prometheus golang client authors / Component(s): prometheus golang client 0.9.0

```
prometheus golang client 0.9.0
COPYRIGHT: Copyright 2012-2015 The Prometheus Authors
LICENSE:
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
```

```
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
```

```
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
```

```
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


===================================
4P Dependencies:


FROM NOTICE FILE:

Prometheus instrumentation library for Go applications
includes software developed at SoundCloud Ltd. (http://soundcloud.com/).

The following components are included in this product:

perks - https://github.com/beorn7/perks
Copyright 2013-2015 Blake Mizerany, Björn Rabenstein
LICENSE:
Copyright (C) 2013 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



Go support for Protocol Buffers - Google's data interchange format
http://github.com/golang/protobuf/
Copyright 2010 The Go Authors
LICENSE:
Copyright 2010 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
LICENSE: Apache 2.0
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
```

```
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
```

```
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.




---
github.com/beorn7/perks version 3a771d992973f24aa725d07868b467d1ddfceafb
COPYRIGHT and LICENSE:
Copyright (C) 2013 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
```

```
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



---
github.com/golang/protobuf version 1.1.0
https://raw.githubusercontent.com/golang/protobuf/master/LICENSE
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: prometheus golang client authors / Component(s): prometheus golang client 0.9.2

```
prometheus golang client 0.9.0
COPYRIGHT: Copyright 2012-2015 The Prometheus Authors
LICENSE:
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
```

```
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
```

```
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


===================================
4P Dependencies:


FROM NOTICE FILE:

Prometheus instrumentation library for Go applications
includes software developed at SoundCloud Ltd. (http://soundcloud.com/).
```

```
The following components are included in this product:

perks - https://github.com/beorn7/perks
Copyright 2013-2015 Blake Mizerany, Björn Rabenstein
LICENSE:
Copyright (C) 2013 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



Go support for Protocol Buffers - Google's data interchange format
http://github.com/golang/protobuf/
Copyright 2010 The Go Authors
LICENSE:
Copyright 2010 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Support for streaming Protocol Buffer messages for the Go language (golang).
```

```
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
LICENSE: Apache 2.0
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."
```

```
"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
```

```
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}
```

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.




---
github.com/beorn7/perks version 3a771d992973f24aa725d07868b467d1ddfceafb
COPYRIGHT and LICENSE:
Copyright (C) 2013 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



---
github.com/golang/protobuf version 1.1.0
https://raw.githubusercontent.com/golang/protobuf/master/LICENSE
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: pyhandle / Component(s): hpy ef4faf0

```
MIT License

Copyright (c) 2019 pyhandle

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Python/ Component(s): Python 3.6.9

```
COPYRIGHT:
Python and this documentation is:

Copyright © 2001-2019 Python Software Foundation. All rights reserved.

Copyright © 2000 BeOpen.com. All rights reserved.

Copyright © 1995-2000 Corporation for National Research Initiatives. All
 rights reserved.

Copyright © 1991-1995 Stichting Mathematisch Centrum. All rights reserved.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.
```

```
2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 Python Software
 Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.



************************
4P Dependencies:

Licenses and Acknowledgements for Incorporated Software

This section is an incomplete, but growing list of licenses and
 acknowledgements for third-party software incorporated in the Python
 distribution.
Mersenne Twister

The _random module includes code based on a download from http://
www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The
 following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.
```

```
Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

 3. The names of its contributors may not be used to endorse or promote
    products derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The socket module uses the functions, getaddrinfo(), and getnameinfo(),
 which are coded in separate source files from the WIDE Project, http://
www.wide.ad.jp/.

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
ARE DISCLAIMED.  IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Asynchronous socket services

The asynchat and asyncore modules contain the following notice:

Copyright 1996 by Sam Rushing

                        All Rights Reserved

Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appear in all
copies and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of Sam
Rushing not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

SAM RUSHING DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN
NO EVENT SHALL SAM RUSHING BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Cookie management

The http.cookies module contains the following notice:

Copyright 2000 by Timothy O'Malley <timo@alum.mit.edu>

                All Rights Reserved

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appear in all
copies and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of
Timothy O'Malley  not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

Timothy O'Malley DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS, IN NO EVENT SHALL Timothy O'Malley BE LIABLE FOR
ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Execution tracing

The trace module contains the following notice:
```

```
portions copyright 2001, Autonomous Zones Industries, Inc., all rights...
err...  reserved and offered to the public under the terms of the
Python 2.2 license.
Author: Zooko O'Whielacronx
http://zooko.com/
mailto:zooko@zooko.com

Copyright 2000, Mojam Media, Inc., all rights reserved.
Author: Skip Montanaro

Copyright 1999, Bioreason, Inc., all rights reserved.
Author: Andrew Dalke

Copyright 1995-1997, Automatrix, Inc., all rights reserved.
Author: Skip Montanaro

Copyright 1991-1995, Stichting Mathematisch Centrum, all rights reserved.


Permission to use, copy, modify, and distribute this Python software and
its associated documentation for any purpose without fee is hereby
granted, provided that the above copyright notice appears in all copies,
and that both that copyright notice and this permission notice appear in
supporting documentation, and that the name of neither Automatrix,
Bioreason or Mojam Media be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

UUencode and UUdecode functions

The uu module contains the following notice:

Copyright 1994 by Lance Ellinghouse
Cathedral City, California Republic, United States of America.
                       All Rights Reserved
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Lance Ellinghouse
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
LANCE ELLINGHOUSE DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL LANCE ELLINGHOUSE CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The xmlrpc.client module contains the following notice:

    The XML-RPC client interface is

Copyright (c) 1999-2002 by Secret Labs AB
Copyright (c) 1999-2002 by Fredrik Lundh
```

```
By obtaining, using, and/or copying this software and/or its
associated documentation, you agree that you have read, understood,
and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and
its associated documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice appears in
all copies, and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of
Secret Labs AB or the author not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD
TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANT-
ABILITY AND FITNESS.  IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR
BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY
DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THIS SOFTWARE.

test_epoll

The test_epoll module contains the following notice:

Copyright (c) 2001-2006 Twisted Matrix Laboratories.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Select kqueue

The select module contains the following notice for the kqueue interface:

Copyright (c) 2000 Doug White, 2006 James Knight, 2007 Christian Heimes
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

SipHash24

The file Python/pyhash.c contains Marek Majkowski' implementation of Dan
 Bernstein's SipHash24 algorithm. It contains the following note:

<MIT License>
Copyright (c) 2013  Marek Majkowski <marek@popcount.org>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
</MIT License>

Original location:
   https://github.com/majek/csiphash/

Solution inspired by code from:
   Samuel Neves (supercop/crypto_auth/siphash24/little)
   djb (supercop/crypto_auth/siphash24/little2)
   Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file Python/dtoa.c, which supplies C functions dtoa and strtod for
 conversion of C doubles to and from strings, is derived from the file
 of the same name by David M. Gay, currently available from http://
www.netlib.org/fp/. The original file, as retrieved on March 16, 2009,
 contains the following copyright and licensing notice:

/****************************************************************
 *
 * The author of this software is David M. Gay.
 *
 * Copyright (c) 1991, 2000, 2001 by Lucent Technologies.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose without fee is hereby granted, provided that this entire notice
 * is included in all copies of any software which is or includes a copy
 * or modification of this software and in all copies of the supporting
 * documentation for such software.
 *
 * THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
 * WARRANTY.  IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY
 * REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
 * OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.
 *
```

```
 ***************************************************************/

OpenSSL

The modules hashlib, posix, ssl, crypt use the OpenSSL library for added
 performance if made available by the operating system. Additionally,
 the Windows and Mac OS X installers for Python may include a copy of the
 OpenSSL libraries, so we include a copy of the OpenSSL license here:

 LICENSE ISSUES
 ==============

 The OpenSSL toolkit stays under a dual license, i.e. both the conditions of
 the OpenSSL License and the original SSLeay license apply to the toolkit.
 See below for the actual license texts. Actually both licenses are BSD-
style
 Open Source licenses. In case of any license issues related to OpenSSL
 please contact openssl-core@openssl.org.

 OpenSSL License
 ---------------

   /* ====================================================================
    * Copyright (c) 1998-2008 The OpenSSL Project.  All rights reserved.
    *
    * Redistribution and use in source and binary forms, with or without
    * modification, are permitted provided that the following conditions
    * are met:
    *
    * 1. Redistributions of source code must retain the above copyright
    *    notice, this list of conditions and the following disclaimer.
    *
    * 2. Redistributions in binary form must reproduce the above copyright
    *    notice, this list of conditions and the following disclaimer in
    *    the documentation and/or other materials provided with the
    *    distribution.
    *
    * 3. All advertising materials mentioning features or use of this
    *    software must display the following acknowledgment:
    *    "This product includes software developed by the OpenSSL Project
    *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
    *
    * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used
 to
    *    endorse or promote products derived from this software without
    *    prior written permission. For written permission, please contact
    *    openssl-core@openssl.org.
    *
    * 5. Products derived from this software may not be called "OpenSSL"
    *    nor may "OpenSSL" appear in their names without prior written
    *    permission of the OpenSSL Project.
    *
    * 6. Redistributions of any form whatsoever must retain the following
    *    acknowledgment:
    *    "This product includes software developed by the OpenSSL Project
    *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
    *
    * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
    * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
    * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
    * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
```

```
    * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
    * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
    * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
    * OF THE POSSIBILITY OF SUCH DAMAGE.
    * =====================================================================
    *
    * This product includes cryptographic software written by Eric Young
    * (eay@cryptsoft.com).  This product includes software written by Tim
    * Hudson (tjh@cryptsoft.com).
    *
    */

Original SSLeay License
-----------------------

   /* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
    * All rights reserved.
    *
    * This package is an SSL implementation written
    * by Eric Young (eay@cryptsoft.com).
    * The implementation was written so as to conform with Netscapes SSL.
    *
    * This library is free for commercial and non-commercial use as long as
    * the following conditions are aheared to.  The following conditions
    * apply to all code found in this distribution, be it the RC4, RSA,
    * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
    * included with this distribution is covered by the same copyright terms
    * except that the holder is Tim Hudson (tjh@cryptsoft.com).
    *
    * Copyright remains Eric Young's, and as such any Copyright notices in
    * the code are not to be removed.
    * If this package is used in a product, Eric Young should be given
 attribution
    * as the author of the parts of the library used.
    * This can be in the form of a textual message at program startup or
    * in documentation (online or textual) provided with the package.
    *
    * Redistribution and use in source and binary forms, with or without
    * modification, are permitted provided that the following conditions
    * are met:
    * 1. Redistributions of source code must retain the copyright
    *    notice, this list of conditions and the following disclaimer.
    * 2. Redistributions in binary form must reproduce the above copyright
    *    notice, this list of conditions and the following disclaimer in the
    *    documentation and/or other materials provided with the
 distribution.
    * 3. All advertising materials mentioning features or use of this
 software
    *    must display the following acknowledgement:
    *    "This product includes cryptographic software written by
    *     Eric Young (eay@cryptsoft.com)"
    *    The word 'cryptographic' can be left out if the rouines from the
 library
    *    being used are not cryptographic related :-).
    * 4. If you include any Windows specific code (or a derivative thereof)
 from
    *    the apps directory (application code) you must include an
 acknowledgement:
    *    "This product includes software written by Tim Hudson
 (tjh@cryptsoft.com)"
    *
    * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
    * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
    * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE
 LIABLE
    * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
 GOODS
    * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    * SUCH DAMAGE.
    *
    * The licence and distribution terms for any publically available
 version or
    * derivative of this code cannot be changed.  i.e. this code cannot
 simply be
    * copied and put under another distribution licence
    * [including the GNU Public Licence.]
    */

expat

The pyexpat extension is built using an included copy of the expat sources
 unless the build is configured --with-system-expat:

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
                               and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

libffi

The _ctypes extension is built using an included copy of the libffi sources
 unless the build is configured --with-system-libffi:

Copyright (c) 1996-2008  Red Hat, Inc and others.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
```

```
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

zlib

The zlib extension is built using an included copy of the zlib sources if
 the zlib version found on the system is too old to be used for the build:

Copyright (C) 1995-2011 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

cfuhash

The implementation of the hash table used by the tracemalloc is based on the
 cfuhash project:

Copyright (c) 2005 Don Owens
All rights reserved.

This code is released under the BSD license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials provided
    with the distribution.
```

```
  * Neither the name of the author nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

libmpdec

The _decimal module is built using an included copy of the libmpdec library
 unless the build is configured --with-system-libmpdec:

Copyright (c) 2008-2016 Stefan Krah. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
```

Provider: Python Cryptography Authors / Component(s): PyCA cryptography 1.5.2

```
Copyright (c) Individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
```

```
3. Neither the name of PyCA Cryptography nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

4th Party Dependencies, Version, License Text:


idna 2.0:
License
-------

Copyright (c) 2013-2016, Kim Davies. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

#. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

#. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided with
the distribution.

#. Neither the name of the copyright holder nor the names of the
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

#. THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

Portions of the codec implementation and unit tests are derived from the
Python standard library, which carries the `Python Software Foundation
License `_:

Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved
```

```
Portions of the unit tests are derived from the Unicode standard, which
is subject to the Unicode, Inc. License Agreement:

Copyright (c) 1991-2014 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in
.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that

(a) this copyright and permission notice appear with all copies
of the Data Files or Software,

(b) this copyright and permission notice appear in associated
documentation, and

(c) there is clear notice in each modified Data File or in the Software
as well as in the documentation associated with the Data File(s) or
Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.


pyasn1 0.1.8:
Copyright (c) 2005-2016, Ilya Etingof
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
```

```
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


six 1.4.1:
Copyright (c) 2010-2015 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


setuptools 11.3:
Copyright (C) 2016 Jason R Coombs

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Python Cryptography Authors / Component(s): PyCA cryptography 1.7.2

```
Copyright (c) Individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of PyCA Cryptography nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

4th Party Dependencies, Version, License Text:


idna 2.0:
License
-------

Copyright (c) 2013-2016, Kim Davies. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

#. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

#. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided with
the distribution.

#. Neither the name of the copyright holder nor the names of the
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

#. THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
```

```
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

Portions of the codec implementation and unit tests are derived from the
Python standard library, which carries the `Python Software Foundation
License `_:

Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved

Portions of the unit tests are derived from the Unicode standard, which
is subject to the Unicode, Inc. License Agreement:

Copyright (c) 1991-2014 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in
.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that

(a) this copyright and permission notice appear with all copies
of the Data Files or Software,

(b) this copyright and permission notice appear in associated
documentation, and

(c) there is clear notice in each modified Data File or in the Software
as well as in the documentation associated with the Data File(s) or
Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.


pyasn1 0.1.8:
Copyright (c) 2005-2016, Ilya Etingof
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


six 1.4.1:
Copyright (c) 2010-2015 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


setuptools 11.3:
Copyright (C) 2016 Jason R Coombs

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Python Cryptography Authors / Component(s): PyCA cryptography 2.1.3

```
pyca cryptography

This software is made available under the terms of the BSD license.

The code used in the OpenSSL locking callback and OS random engine is
 derived
from the same in CPython itself, and is licensed under the terms of the PSF
License Agreement.

BSD
Copyright (c) Individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. Neither the name of PyCA Cryptography nor the names of its
 contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
4th party dependencies

idna -BSD like

License

Copyright (c) 2013-2017, Kim Davies. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided

that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and

the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and

the following disclaimer in the documentation and/or other materials
 provided with the distribution.
    Neither the name of the copyright holder nor the names of the
 contributors may be used to endorse or

promote products derived from this software without specific prior written
 permission.
    THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY EXPRESS OR
 IMPLIED WARRANTIES,

INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS FOR A PARTICULAR

PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT,

INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO,

PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION)

HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING

NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
 EVEN IF ADVISED OF THE

POSSIBILITY OF SUCH DAMAGE.

Portions of the codec implementation and unit tests are derived from the
 Python standard library, which

carries the Python Software Foundation License:

    Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved

Portions of the unit tests are derived from the Unicode standard, which is
 subject to the Unicode, Inc.

License Agreement:
```

```
    Copyright (c) 1991-2014 Unicode, Inc. All rights reserved. Distributed
 under the Terms of Use in

<http://www.unicode.org/copyright.html>.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy of the Unicode data

files and any associated documentation (the "Data Files") or Unicode
 software and any associated

documentation (the "Software") to deal in the Data Files or Software without
 restriction, including

without limitation the rights to use, copy, modify, merge, publish,
 distribute, and/or sell copies of the

Data Files or Software, and to permit persons to whom the Data Files or
 Software are furnished to do so,

provided that

    (a) this copyright and permission notice appear with all copies of the
 Data Files or Software,

    (b) this copyright and permission notice appear in associated
 documentation, and

    (c) there is clear notice in each modified Data File or in the Software
 as well as in the

documentation associated with the Data File(s) or Software that the data or
 software has been modified.

    THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
 ANY KIND, EXPRESS OR IMPLIED,

INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR PURPOSE AND

NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT
 HOLDER OR HOLDERS INCLUDED IN THIS

NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
 DAMAGES, OR ANY DAMAGES

WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
 OF CONTRACT, NEGLIGENCE OR

OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THE DATA FILES OR

SOFTWARE.

    Except as contained in this notice, the name of a copyright holder shall
 not be used in advertising

or otherwise to promote the sale, use or other dealings in these Data Files
 or Software without prior

written authorization of the copyright holder.
```

```
--------------------------------------------------------------------------------

as1crypto - MIT

Copyright (c) 2015-2017 Will Bond <will@wbond.net>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

six - MIT

Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

======================================================================
```

```
PSF License

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   2.7.12 software in source or binary form and its associated
 documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 2.7.12 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2016 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 2.7.12 alone or in any derivative
 version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 2.7.12 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
   agrees to include in any such work a brief summary of the changes made to
 Python
   2.7.12.

4. PSF is making Python 2.7.12 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 2.7.12 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.12
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.12, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 2.7.12, Licensee agrees
to be bound by the terms and conditions of this License Agreement.
```

```
==================================================================
```

Provider: Python Cryptography Authors / Component(s): PyCA cryptography 2.5

```
Copyright (c) Individual contributors.
Note: see Authors file for specific individual contributors https://
github.com/pyca/cryptography/blob/2.4.2/AUTHORS.rst

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to cryptography are
 made
under the terms of *both* these licenses.  Oracle elects the Apache 2.0
 license.

The code used in the OpenSSL locking callback and OS random engine is
 derived
from CPython, and is licensed under the terms of the PSF License Agreement.

Apache 2.0 :

                            Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

-----------------
PSF:

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   2.7.12 software in source or binary form and its associated
 documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 2.7.12 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2016 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 2.7.12 alone or in any derivative
 version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 2.7.12 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
   agrees to include in any such work a brief summary of the changes made to
 Python
   2.7.12.

4. PSF is making Python 2.7.12 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 2.7.12 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.12
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.12, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
```

```
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 2.7.12, Licensee agrees
to be bound by the terms and conditions of this License Agreement.




-----------------
4P Dependencies:


asn1crypto >= 0.21.0
COPYRIGHT and LICENSE:
Copyright (c) 2015-2016 Will Bond <will@wbond.net>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


------
six 1.12.0
COPYRIGHT and LICENSE:
Copyright (c) 2010-2013 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



------
setuptools>=18.5
COPYRIGHT and LICENSE:
Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


------
wheel 0.32.3
COPYRIGHT and LICENSE:
"wheel" copyright (c) 2012-2014 Daniel Holth <dholth@fastmail.fm> and
contributors.

The MIT License

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.




------
cffi>=1.8,!=1.11.3
COPYRIGHT and LICENSE:
Copyright (C) 2005-2007, James Bielman  <jamesjb@jamesjb.com>

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


------
idna >= 2.1
COPYRIGHT and LICENSE:
License

Copyright (c) 2013-2018, Kim Davies. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of the
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
    THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY EXPRESS OR
 IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
```

```
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.

Portions of the codec implementation and unit tests are derived from the
 Python standard library, which carries the Python Software Foundation
 License:

    Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved

Portions of the unit tests are derived from the Unicode standard, which is
 subject to the Unicode, Inc. License Agreement:

    Copyright (c) 1991-2014 Unicode, Inc. All rights reserved. Distributed
 under the Terms of Use in <http://www.unicode.org/copyright.html>.

    Permission is hereby granted, free of charge, to any person obtaining
 a copy of the Unicode data files and any associated documentation (the
 "Data Files") or Unicode software and any associated documentation (the
 "Software") to deal in the Data Files or Software without restriction,
 including without limitation the rights to use, copy, modify, merge,
 publish, distribute, and/or sell copies of the Data Files or Software, and
 to permit persons to whom the Data Files or Software are furnished to do
 so, provided that

    (a) this copyright and permission notice appear with all copies of the
 Data Files or Software,

    (b) this copyright and permission notice appear in associated
 documentation, and

    (c) there is clear notice in each modified Data File or in the Software
 as well as in the documentation associated with the Data File(s) or
 Software that the data or software has been modified.

    THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
 ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
 OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS
 INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT
 OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
 OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THE DATA FILES OR SOFTWARE.

    Except as contained in this notice, the name of a copyright holder
 shall not be used in advertising or otherwise to promote the sale, use
 or other dealings in these Data Files or Software without prior written
 authorization of the copyright holder.


---
enum34 1.1.6
COPYRIGHT and LICENSE:
Copyright (c) 2013, Ethan Furman.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    Redistributions of source code must retain the above
    copyright notice, this list of conditions and the
    following disclaimer.
```

```
    Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name Ethan Furman nor the names of any
    contributors may be used to endorse or promote products
    derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

Provider: Python Software Foundation / Component(s): Python 2.7.15

```
From the LICENSE file:

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
-----------------

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018 Python Software Foundation;
 All
Rights Reserved" are retained in Python alone or in any derivative version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
```

```
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

-----------------------------------------------------------------------------

From the Doc/license.rst file:

Licenses and Acknowledgements for Incorporated Software
-----------------

This section is an incomplete, but growing list of licenses and
 acknowledgements
for third-party software incorporated in the Python distribution.


Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The
 following are
the verbatim comments from the original code::

   A C-program for MT19937, with initialization improved 2002/1/26.
   Coded by Takuji Nishimura and Makoto Matsumoto.

   Before using, initialize the state by using init_genrand(seed)
   or init_by_array(init_key, key_length).

   Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions
   are met:

    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. The names of its contributors may not be used to endorse or promote
       products derived from this software without specific prior written
       permission.
```

```
   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR
   CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
   PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
   PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
   LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
   NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
   SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


   Any feedback is very welcome.
   http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
   email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)


Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
Project, http://www.wide.ad.jp/. ::

   Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions
   are met:
   1. Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
   2. Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
   3. Neither the name of the project nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
   ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
   IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
   ARE DISCLAIMED.  IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
   FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
   DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
   OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
   HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
   LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
   OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
   SUCH DAMAGE.

Floating point exception control
--------------------------------

The source for the :mod:`fpectl` module includes the following notice::

     ---------------------------------------------------------------------
    /                       Copyright (c) 1996.                           \
```

```
   |          The Regents of the University of California.                |
   |                        All rights reserved.                          |
   |                                                                      |
   |   Permission to use, copy, modify, and distribute this software for  |
   |   any purpose without fee is hereby granted, provided that this en-  |
   |   tire notice is included in all copies of any software which is or  |
   |   includes  a  copy  or  modification  of  this software and in all  |
   |   copies of the supporting documentation for such software.          |
   |                                                                      |
   |   This  work was produced at the University of California, Lawrence  |
   |   Livermore National Laboratory under  contract  no.  W-7405-ENG-48  |
   |   between  the  U.S.  Department  of  Energy and The Regents of the  |
   |   University of California for the operation of UC LLNL.             |
   |                                                                      |
   |                              DISCLAIMER                              |
   |                                                                      |
   |   This  software was prepared as an account of work sponsored by an  |
   |   agency of the United States Government. Neither the United States  |
   |   Government  nor the University of California nor any of their em-  |
   |   ployees, makes any warranty, express or implied, or  assumes  any  |
   |   liability  or  responsibility  for the accuracy, completeness, or  |
   |   usefulness of any information,  apparatus,  product,  or  process  |
   |   disclosed,   or  represents  that  its  use  would  not  infringe  |
   |   privately-owned rights. Reference herein to any specific  commer-  |
   |   cial  products,  process,  or  service  by trade name, trademark,  |
   |   manufacturer, or otherwise, does not  necessarily  constitute  or  |
   |   imply  its endorsement, recommendation, or favoring by the United  |
   |   States Government or the University of California. The views  and  |
   |   opinions  of authors expressed herein do not necessarily state or  |
   |   reflect those of the United States Government or  the  University  |
   |   of  California,  and shall not be used for advertising or product  |
    \  endorsement purposes.                                             /
     ----------------------------------------------------------------------


MD5 message digest algorithm
----------------------------

The source code for the :mod:`md5` module contains the following notice::

     Copyright (C) 1999, 2002 Aladdin Enterprises.  All rights reserved.

     This software is provided 'as-is', without any express or implied
     warranty.  In no event will the authors be held liable for any damages
     arising from the use of this software.

     Permission is granted to anyone to use this software for any purpose,
     including commercial applications, and to alter it and redistribute it
     freely, subject to the following restrictions:

     1. The origin of this software must not be misrepresented; you must not
        claim that you wrote the original software. If you use this software
        in a product, an acknowledgment in the product documentation would
 be
        appreciated but is not required.
     2. Altered source versions must be plainly marked as such, and must not
 be
        misrepresented as being the original software.
     3. This notice may not be removed or altered from any source
 distribution.

     L. Peter Deutsch
     ghost@aladdin.com
```

```
     Independent implementation of MD5 (RFC 1321).

     This code implements the MD5 Algorithm defined in RFC 1321, whose
     text is available at
           http://www.ietf.org/rfc/rfc1321.txt
     The code is derived from the text of the RFC, including the test suite
     (section A.5) but excluding the rest of Appendix A.  It does not
 include
     any code or documentation that is identified in the RFC as being
     copyrighted.

     The original and principal author of md5.h is L. Peter Deutsch
     <ghost@aladdin.com>.  Other authors are noted in the change history
     that follows (in reverse chronological order):

     2002-04-13 lpd Removed support for non-ANSI compilers; removed
           references to Ghostscript; clarified derivation from RFC 1321;
           now handles byte order either statically or dynamically.
     1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
     1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
           added conditionalization for C++ compilation from Martin
           Purschke <purschke@bnl.gov>.
     1999-05-03 lpd Original version.


Asynchronous socket services
----------------------------

The :mod:`asynchat` and :mod:`asyncore` modules contain the following
 notice::

   Copyright 1996 by Sam Rushing

                            All Rights Reserved

   Permission to use, copy, modify, and distribute this software and
   its documentation for any purpose and without fee is hereby
   granted, provided that the above copyright notice appear in all
   copies and that both that copyright notice and this permission
   notice appear in supporting documentation, and that the name of Sam
   Rushing not be used in advertising or publicity pertaining to
   distribution of the software without specific, written prior
   permission.

   SAM RUSHING DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
   INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN
   NO EVENT SHALL SAM RUSHING BE LIABLE FOR ANY SPECIAL, INDIRECT OR
   CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
   OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
   NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
   CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


Cookie management
-----------------

The :mod:`Cookie` module contains the following notice::

   Copyright 2000 by Timothy O'Malley <timo@alum.mit.edu>

                  All Rights Reserved

   Permission to use, copy, modify, and distribute this software
   and its documentation for any purpose and without fee is hereby
```

```
   granted, provided that the above copyright notice appear in all
   copies and that both that copyright notice and this permission
   notice appear in supporting documentation, and that the name of
   Timothy O'Malley  not be used in advertising or publicity
   pertaining to distribution of the software without specific, written
   prior permission.

   Timothy O'Malley DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
   SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
   AND FITNESS, IN NO EVENT SHALL Timothy O'Malley BE LIABLE FOR
   ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
   WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
   WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
   ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
   PERFORMANCE OF THIS SOFTWARE.


Execution tracing
-----------------

The :mod:`trace` module contains the following notice::

   portions copyright 2001, Autonomous Zones Industries, Inc., all rights...
   err...  reserved and offered to the public under the terms of the
   Python 2.2 license.
   Author: Zooko O'Whielacronx
   http://zooko.com/
   mailto:zooko@zooko.com

   Copyright 2000, Mojam Media, Inc., all rights reserved.
   Author: Skip Montanaro

   Copyright 1999, Bioreason, Inc., all rights reserved.
   Author: Andrew Dalke

   Copyright 1995-1997, Automatrix, Inc., all rights reserved.
   Author: Skip Montanaro

   Copyright 1991-1995, Stichting Mathematisch Centrum, all rights reserved.


   Permission to use, copy, modify, and distribute this Python software and
   its associated documentation for any purpose without fee is hereby
   granted, provided that the above copyright notice appears in all copies,
   and that both that copyright notice and this permission notice appear in
   supporting documentation, and that the name of neither Automatrix,
   Bioreason or Mojam Media be used in advertising or publicity pertaining
 to
   distribution of the software without specific, written prior permission.


UUencode and UUdecode functions
-------------------------------

The :mod:`uu` module contains the following notice::

   Copyright 1994 by Lance Ellinghouse
   Cathedral City, California Republic, United States of America.
                           All Rights Reserved
   Permission to use, copy, modify, and distribute this software and its
   documentation for any purpose and without fee is hereby granted,
   provided that the above copyright notice appear in all copies and that
   both that copyright notice and this permission notice appear in
   supporting documentation, and that the name of Lance Ellinghouse
```

```
   not be used in advertising or publicity pertaining to distribution
   of the software without specific, written prior permission.
   LANCE ELLINGHOUSE DISCLAIMS ALL WARRANTIES WITH REGARD TO
   THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
   FITNESS, IN NO EVENT SHALL LANCE ELLINGHOUSE CENTRUM BE LIABLE
   FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
   WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
   ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
   OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

   Modified by Jack Jansen, CWI, July 1995:
   - Use binascii module to do the actual line-by-line conversion
     between ascii and binary. This results in a 1000-fold speedup. The C
     version is still 5 times faster, though.
   - Arguments more compliant with Python standard


XML Remote Procedure Calls
--------------------------

The :mod:`xmlrpclib` module contains the following notice::

       The XML-RPC client interface is

   Copyright (c) 1999-2002 by Secret Labs AB
   Copyright (c) 1999-2002 by Fredrik Lundh

   By obtaining, using, and/or copying this software and/or its
   associated documentation, you agree that you have read, understood,
   and will comply with the following terms and conditions:

   Permission to use, copy, modify, and distribute this software and
   its associated documentation for any purpose and without fee is
   hereby granted, provided that the above copyright notice appears in
   all copies, and that both that copyright notice and this permission
   notice appear in supporting documentation, and that the name of
   Secret Labs AB or the author not be used in advertising or publicity
   pertaining to distribution of the software without specific, written
   prior permission.

   SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD
   TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANT-
   ABILITY AND FITNESS.  IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR
   BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY
   DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
   WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
   ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
   OF THIS SOFTWARE.


test_epoll
----------

The :mod:`test_epoll` contains the following notice::

  Copyright (c) 2001-2006 Twisted Matrix Laboratories.

  Permission is hereby granted, free of charge, to any person obtaining
  a copy of this software and associated documentation files (the
  "Software"), to deal in the Software without restriction, including
  without limitation the rights to use, copy, modify, merge, publish,
  distribute, sublicense, and/or sell copies of the Software, and to
  permit persons to whom the Software is furnished to do so, subject to
  the following conditions:
```

```
  The above copyright notice and this permission notice shall be
  included in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Select kqueue
-------------

The :mod:`select` and contains the following notice for the kqueue
 interface::

  Copyright (c) 2000 Doug White, 2006 James Knight, 2007 Christian Heimes
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions
  are met:
  1. Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
  FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
  OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
  HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
  LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
  OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
  SUCH DAMAGE.


strtod and dtoa
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
strtod for conversion of C doubles to and from strings, is derived
from the file of the same name by David M. Gay, currently available
from http://www.netlib.org/fp/.  The original file, as retrieved on
March 16, 2009, contains the following copyright and licensing
notice::

   /****************************************************************
    *
    * The author of this software is David M. Gay.
    *
    * Copyright (c) 1991, 2000, 2001 by Lucent Technologies.
    *
    * Permission to use, copy, modify, and distribute this software for any
    * purpose without fee is hereby granted, provided that this entire
 notice
    * is included in all copies of any software which is or includes a copy
    * or modification of this software and in all copies of the supporting
```

```
    * documentation for such software.
    *
    * THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR
 IMPLIED
    * WARRANTY.  IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY
    * REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
    * OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.
    *
    ***************************************************************/


OpenSSL
-------

The modules :mod:`hashlib`, :mod:`posix`, :mod:`ssl`, :mod:`crypt` use
the OpenSSL library for added performance if made available by the
operating system. Additionally, the Windows and Mac OS X installers for
Python may include a copy of the OpenSSL libraries, so we include a copy
of the OpenSSL license here::


  LICENSE ISSUES
  ----------------

  The OpenSSL toolkit stays under a dual license, i.e. both the conditions
 of
  the OpenSSL License and the original SSLeay license apply to the toolkit.
  See below for the actual license texts. Actually both licenses are BSD-
style
  Open Source licenses. In case of any license issues related to OpenSSL
  please contact openssl-core@openssl.org.

  OpenSSL License
  ---------------

    /* ----------------
     * Copyright (c) 1998-2008 The OpenSSL Project.  All rights reserved.
     *
     * Redistribution and use in source and binary forms, with or without
     * modification, are permitted provided that the following conditions
     * are met:
     *
     * 1. Redistributions of source code must retain the above copyright
     *    notice, this list of conditions and the following disclaimer.
     *
     * 2. Redistributions in binary form must reproduce the above copyright
     *    notice, this list of conditions and the following disclaimer in
     *    the documentation and/or other materials provided with the
     *    distribution.
     *
     * 3. All advertising materials mentioning features or use of this
     *    software must display the following acknowledgment:
     *    "This product includes software developed by the OpenSSL Project
     *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
     *
     * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used
 to
     *    endorse or promote products derived from this software without
     *    prior written permission. For written permission, please contact
     *    openssl-core@openssl.org.
     *
     * 5. Products derived from this software may not be called "OpenSSL"
     *    nor may "OpenSSL" appear in their names without prior written
     *    permission of the OpenSSL Project.
```

```
    *
    * 6. Redistributions of any form whatsoever must retain the following
    *    acknowledgment:
    *    "This product includes software developed by the OpenSSL Project
    *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
    *
    * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
    * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
    * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
    * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
    * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
    * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
    * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
    * OF THE POSSIBILITY OF SUCH DAMAGE.
    * -----------------
    *
    * This product includes cryptographic software written by Eric Young
    * (eay@cryptsoft.com).  This product includes software written by Tim
    * Hudson (tjh@cryptsoft.com).
    *
    */

 Original SSLeay License
 -----------------------

   /* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
    * All rights reserved.
    *
    * This package is an SSL implementation written
    * by Eric Young (eay@cryptsoft.com).
    * The implementation was written so as to conform with Netscapes SSL.
    *
    * This library is free for commercial and non-commercial use as long as
    * the following conditions are aheared to.  The following conditions
    * apply to all code found in this distribution, be it the RC4, RSA,
    * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
    * included with this distribution is covered by the same copyright
terms
    * except that the holder is Tim Hudson (tjh@cryptsoft.com).
    *
    * Copyright remains Eric Young's, and as such any Copyright notices in
    * the code are not to be removed.
    * If this package is used in a product, Eric Young should be given
attribution
    * as the author of the parts of the library used.
    * This can be in the form of a textual message at program startup or
    * in documentation (online or textual) provided with the package.
    *
    * Redistribution and use in source and binary forms, with or without
    * modification, are permitted provided that the following conditions
    * are met:
    * 1. Redistributions of source code must retain the copyright
    *    notice, this list of conditions and the following disclaimer.
    * 2. Redistributions in binary form must reproduce the above copyright
    *    notice, this list of conditions and the following disclaimer in
the
    *    documentation and/or other materials provided with the
distribution.
    * 3. All advertising materials mentioning features or use of this
software
```

```
     *    must display the following acknowledgement:
     *    "This product includes cryptographic software written by
     *     Eric Young (eay@cryptsoft.com)"
     *    The word 'cryptographic' can be left out if the rouines from the
 library
     *    being used are not cryptographic related :-).
     * 4. If you include any Windows specific code (or a derivative thereof)
 from
     *    the apps directory (application code) you must include an
 acknowledgement:
     *    "This product includes software written by Tim Hudson
 (tjh@cryptsoft.com)"
     *
     * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
     * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
     * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
     * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE
 LIABLE
     * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
     * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
 GOODS
     * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
     * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
     * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
     * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
 OF
     * SUCH DAMAGE.
     *
     * The licence and distribution terms for any publically available
 version or
     * derivative of this code cannot be changed.  i.e. this code cannot
 simply be
     * copied and put under another distribution licence
     * [including the GNU Public Licence.]
     */

zlib
----

The :mod:`zlib` extension is built using an included copy of the zlib
sources if the zlib version found on the system is too old to be
used for the build::

  Copyright (C) 1995-2010 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.

  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
```

```
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

Additional attribution text found in the source:

::::::::::::::
Lib/bsddb/__init__.py
::::::::::::::
#  Copyright (c) 1999-2001, Digital Creations, Fredericksburg, VA, USA
#  and Andrew Kuchling. All rights reserved.
#
#  Redistribution and use in source and binary forms, with or without
#  modification, are permitted provided that the following conditions are
#  met:
#
#    o Redistributions of source code must retain the above copyright
#      notice, this list of conditions, and the disclaimer that follows.
#
#    o Redistributions in binary form must reproduce the above copyright
#      notice, this list of conditions, and the following disclaimer in
#      the documentation and/or other materials provided with the
#      distribution.
#
#    o Neither the name of Digital Creations nor the names of its
#      contributors may be used to endorse or promote products derived
#      from this software without specific prior written permission.
#
#  THIS SOFTWARE IS PROVIDED BY DIGITAL CREATIONS AND CONTRIBUTORS *AS
#  IS* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
#  TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
#  PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL DIGITAL
#  CREATIONS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
#  BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
#  OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
#  ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
#  TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
#  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
#  DAMAGE.
::::::::::::::
Lib/compiler/transformer.py
::::::::::::::
# Original version written by Greg Stein (gstein@lyra.org)
#                         and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
#
# Portions of this file are:
# Copyright (C) 1997-1998 Greg Stein. All Rights Reserved.
#
# This module is provided under a BSD-ish license. See
#   http://www.opensource.org/licenses/bsd-license.html
# and replace OWNER, ORGANIZATION, and YEAR as appropriate.
::::::::::::::
Lib/lib-tk/turtle.py
::::::::::::::
```

```
# Copyright (C) 2006 - 2010  Gregor Lingl
# email: glingl@aon.at
#
# This software is provided 'as-is', without any express or implied
# warranty.  In no event will the authors be held liable for any damages
# arising from the use of this software.
#
# Permission is granted to anyone to use this software for any purpose,
# including commercial applications, and to alter it and redistribute it
# freely, subject to the following restrictions:
#
# 1. The origin of this software must not be misrepresented; you must not
#    claim that you wrote the original software. If you use this software
#    in a product, an acknowledgment in the product documentation would be
#    appreciated but is not required.
# 2. Altered source versions must be plainly marked as such, and must not be
#    misrepresented as being the original software.
# 3. This notice may not be removed or altered from any source distribution.
::::::::::::::
Lib/logging/__init__.py
::::::::::::::
# Copyright 2001-2009 by Vinay Sajip. All Rights Reserved.
#
# Permission to use, copy, modify, and distribute this software and its
# documentation for any purpose and without fee is hereby granted,
# provided that the above copyright notice appear in all copies and that
# both that copyright notice and this permission notice appear in
# supporting documentation, and that the name of Vinay Sajip
# not be used in advertising or publicity pertaining to distribution
# of the software without specific, written prior permission.
# VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
 INCLUDING
# ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
# VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES
 OR
# ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
 WHETHER
# IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
# OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
::::::::::::::
Lib/multiprocessing/__init__.py
::::::::::::::
# Copyright (c) 2006-2008, R Oudkerk
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions
# are met:
#
# 1. Redistributions of source code must retain the above copyright
#    notice, this list of conditions and the following disclaimer.
# 2. Redistributions in binary form must reproduce the above copyright
#    notice, this list of conditions and the following disclaimer in the
#    documentation and/or other materials provided with the distribution.
# 3. Neither the name of author nor the names of any contributors may be
#    used to endorse or promote products derived from this software
#    without specific prior written permission.
#
# THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
# ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
# IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
# ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
# FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
# DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
```

```
# OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
# LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
# OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
::::::::::::::
Lib/optparse.py
::::::::::::::
Copyright (c) 2001-2006 Gregory P. Ward.  All rights reserved.
Copyright (c) 2002-2006 Python Software Foundation.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  * Neither the name of the author nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
::::::::::::::
Lib/platform.py
::::::::::::::
    Copyright (c) 1999-2000, Marc-Andre Lemburg; mailto:mal@lemburg.com
    Copyright (c) 2000-2010, eGenix.com Software GmbH;
 mailto:info@egenix.com

    Permission to use, copy, modify, and distribute this software and its
    documentation for any purpose and without fee or royalty is hereby
 granted,
    provided that the above copyright notice appear in all copies and that
    both that copyright notice and this permission notice appear in
    supporting documentation or portions thereof, including modifications,
    that you make.

    EGENIX.COM SOFTWARE GMBH DISCLAIMS ALL WARRANTIES WITH REGARD TO
    THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
    FITNESS, IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL,
    INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
    FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
    NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
    WITH THE USE OR PERFORMANCE OF THIS SOFTWARE !
::::::::::::::
Lib/profile.py
::::::::::::::
# Copyright Disney Enterprises, Inc.  All Rights Reserved.
# Licensed to PSF under a Contributor Agreement
#
```

```
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
# either express or implied.  See the License for the specific language
# governing permissions and limitations under the License.
::::::::::::::
Lib/sqlite3/__init__.py
::::::::::::::
# Copyright (C) 2005 Gerhard H?ring <gh@ghaering.de>
#
# This file is part of pysqlite.
#
# This software is provided 'as-is', without any express or implied
# warranty.  In no event will the authors be held liable for any damages
# arising from the use of this software.
#
# Permission is granted to anyone to use this software for any purpose,
# including commercial applications, and to alter it and redistribute it
# freely, subject to the following restrictions:
#
# 1. The origin of this software must not be misrepresented; you must not
#    claim that you wrote the original software. If you use this software
#    in a product, an acknowledgment in the product documentation would be
#    appreciated but is not required.
# 2. Altered source versions must be plainly marked as such, and must not be
#    misrepresented as being the original software.
# 3. This notice may not be removed or altered from any source distribution.
::::::::::::::
Lib/tarfile.py
::::::::::::::
# Copyright (C) 2002 Lars Gust?bel <lars@gustaebel.de>
# All rights reserved.
#
# Permission  is  hereby granted,  free  of charge,  to  any person
# obtaining a  copy of  this software  and associated documentation
# files  (the  "Software"),  to  deal  in  the  Software  without
# restriction,  including  without limitation  the  rights to  use,
# copy, modify, merge, publish, distribute, sublicense, and/or sell
# copies  of  the  Software,  and to  permit  persons  to  whom the
# Software  is  furnished  to  do  so,  subject  to  the  following
# conditions:
#
# The above copyright  notice and this  permission notice shall  be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS  IS", WITHOUT WARRANTY OF ANY  KIND,
# EXPRESS OR IMPLIED, INCLUDING  BUT NOT LIMITED TO  THE WARRANTIES
# OF  MERCHANTABILITY,  FITNESS  FOR  A  PARTICULAR  PURPOSE  AND
# NONINFRINGEMENT.  IN  NO  EVENT SHALL  THE  AUTHORS  OR COPYRIGHT
# HOLDERS  BE LIABLE  FOR ANY  CLAIM, DAMAGES  OR OTHER  LIABILITY,
# WHETHER  IN AN  ACTION OF  CONTRACT, TORT  OR OTHERWISE,  ARISING
# FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
# OTHER DEALINGS IN THE SOFTWARE.
::::::::::::::
Lib/unittest/__init__.py
::::::::::::::
Copyright (c) 1999-2003 Steve Purcell
Copyright (c) 2003-2010 Python Software Foundation
```

```
This module is free software, and you may redistribute it and/or modify
it under the same terms as Python itself, so long as this copyright message
and disclaimer are retained in their original form.

IN NO EVENT SHALL THE AUTHOR BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT,
SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF
THIS CODE, EVEN IF THE AUTHOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE AUTHOR SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE.  THE CODE PROVIDED HEREUNDER IS ON AN "AS IS" BASIS,
AND THERE IS NO OBLIGATION WHATSOEVER TO PROVIDE MAINTENANCE,
SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.
::::::::::::::
Modules/_localemodule.c
::::::::::::::
Copyright (C) 1997, 2002, 2003 Martin von Loewis

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies.

This software comes with no warranty. Use at your own risk.
::::::::::::::
Modules/parsermodule.c
::::::::::::::
 *  Copyright 1995-1996 by Fred L. Drake, Jr. and Virginia Polytechnic
 *  Institute and State University, Blacksburg, Virginia, USA.
 *  Portions copyright 1991-1995 by Stichting Mathematisch Centrum,
 *  Amsterdam, The Netherlands.  Copying is permitted under the terms
 *  associated with the main Python distribution, with the additional
 *  restriction that this additional notice be included and maintained
 *  on all distributed copies.
::::::::::::::
Modules/timing.h
::::::::::::::
/*
 * Copyright (c) 1993 George V. Neville-Neil
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. The name, George Neville-Neil may not be used to endorse or promote
 *    products derived from this software without specific prior
 *    written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
```

```
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */
::::::::::::::
Parser/spark.py
::::::::::::::
#  Copyright (c) 1998-2002 John Aycock
#
#  Permission is hereby granted, free of charge, to any person obtaining
#  a copy of this software and associated documentation files (the
#  "Software"), to deal in the Software without restriction, including
#  without limitation the rights to use, copy, modify, merge, publish,
#  distribute, sublicense, and/or sell copies of the Software, and to
#  permit persons to whom the Software is furnished to do so, subject to
#  the following conditions:
#
#  The above copyright notice and this permission notice shall be
#  included in all copies or substantial portions of the Software.
#
#  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
#  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
#  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
#  IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
#  CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
#  TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
#  SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
::::::::::::::
Python/getopt.c
::::::::::::::
 * Copyright 1992-1994, David Gottner
 *
 *                    All Rights Reserved
 *
 * Permission to use, copy, modify, and distribute this software and its
 * documentation for any purpose and without fee is hereby granted,
 * provided that the above copyright notice, this permission notice and
 * the following disclaimer notice appear unmodified in all copies.
 *
 * I DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.  IN NO EVENT SHALL I
 * BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY
 * DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA, OR PROFITS, WHETHER
 * IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING
 OUT
 * OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 *
 * Nevertheless, I would like to know about bugs in this library or
 * suggestions for improvment.  Send bug reports and feedback to
 * davegottner@delphi.com.
::::::::::::::
Tools/pybench/LICENSE
::::::::::::::
pybench License
---------------

This copyright notice and license applies to all files in the pybench
directory of the pybench distribution.

Copyright (c), 1997-2006, Marc-Andre Lemburg (mal@lemburg.com)
Copyright (c), 2000-2006, eGenix.com Software GmbH (info@egenix.com)

                    All Rights Reserved.
```

```
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee or royalty is hereby
granted, provided that the above copyright notice appear in all copies
and that both that copyright notice and this permission notice appear
in supporting documentation or portions thereof, including
modifications, that you make.

THE AUTHOR MARC-ANDRE LEMBURG DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE USE OR PERFORMANCE OF THIS SOFTWARE !
::::::::::::::
Tools/pynche/X/xlicense.txt
::::::::::::::
X Window System License - X11R6.4

Copyright (c) 1998 The Open Group

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

X Window System is a trademark of The Open Group
::::::::::::::
install-sh
::::::::::::::
#!/bin/sh
#
# install - install a program, script, or datafile
#
# This originates from X11R5 (mit/util/scripts/install.sh), which was
# later released in X11R6 (xc/config/util/install.sh) with the
# following copyright and license.
#
# Copyright (C) 1994 X Consortium
#
# Permission is hereby granted, free of charge, to any person obtaining a
 copy
# of this software and associated documentation files (the "Software"), to
# deal in the Software without restriction, including without limitation the
```

```
# rights to use, copy, modify, merge, publish, distribute, sublicense, and/
or
# sell copies of the Software, and to permit persons to whom the Software is
# furnished to do so, subject to the following conditions:
#
# The above copyright notice and this permission notice shall be included in
# all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
# IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
# FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 THE
# X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
 IN
# AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 CONNEC-
# TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
#
# Except as contained in this notice, the name of the X Consortium shall not
# be used in advertising or otherwise to promote the sale, use or other
 deal-
# ings in this Software without prior written authorization from the X
 Consor-
# tium.
```

Provider: Python Software Foundation / Component(s): Python 3.8.5

```
Copyright © 2001-2018 Python Software Foundation. All rights reserved..

Copyright © 2000 BeOpen.com. All rights reserved.

Copyright © 1995-2000 Corporation for National Research Initiatives. All
 rights reserved.

Copyright © 1991-1995 Stichting Mathematisch Centrum. All rights reserved.


Terms and conditions for accessing or otherwise using Python
PSF LICENSE AGREEMENT FOR PYTHON 3.6.5

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   3.6.5 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 3.6.5 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2018 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 3.6.5 alone or in any derivative version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 3.6.5 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
```

```
   agrees to include in any such work a brief summary of the changes made to
 Python
   3.6.5.

4. PSF is making Python 3.6.5 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 3.6.5 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 3.6.5
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 3.6.5, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 3.6.5, Licensee agrees
   to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office
 at
   160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or
 Organization
   ("Licensee") accessing and otherwise using this software in source or
 binary
   form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
 Agreement,
   BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide
 license
   to reproduce, analyze, test, perform and/or display publicly, prepare
 derivative
   works, distribute, and otherwise use the Software alone or in any
 derivative
   version, provided, however, that the BeOpen Python License is retained in
 the
   Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis.
   BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY
 WAY OF
```

```
   EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE
 FOR
   ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF
 USING,
   MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN
 IF
   ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
 respects
   by the law of the State of California, excluding conflict of law
 provisions.
   Nothing in this License Agreement shall be deemed to create any
 relationship of
   agency, partnership, or joint venture between BeOpen and Licensee.  This
 License
   Agreement does not grant permission to use BeOpen trademarks or trade
 names in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.  As an exception, the "BeOpen Python" logos available at
   http://www.pythonlabs.com/logos.html may be used according to the
 permissions
   granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees
 to be
   bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1

1. This LICENSE AGREEMENT is between the Corporation for National Research
   Initiatives, having an office at 1895 Preston White Drive, Reston, VA
 20191
   ("CNRI"), and the Individual or Organization ("Licensee") accessing and
   otherwise using Python 1.6.1 software in source or binary form and its
   associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
 hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 1.6.1 alone or in any derivative
 version,
   provided, however, that CNRI's License Agreement and CNRI's notice of
 copyright,
   i.e., "Copyright © 1995-2001 Corporation for National Research
 Initiatives; All
   Rights Reserved" are retained in Python 1.6.1 alone or in any derivative
 version
   prepared by Licensee.  Alternately, in lieu of CNRI's License Agreement,
   Licensee may substitute the following text (omitting the quotes): "Python
 1.6.1
```

```
   is made available subject to the terms and conditions in CNRI's License
   Agreement.  This Agreement together with Python 1.6.1 may be located on
 the
   Internet using the following unique, persistent identifier (known as a
 handle):
   1895.22/1013.  This Agreement may also be obtained from a proxy server on
 the
   Internet using the following URL: http://hdl.handle.net/1895.22/1013."

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 1.6.1 or any part thereof, and wants to make the
 derivative
   work available to others as provided herein, then Licensee hereby agrees
 to
   include in any such work a brief summary of the changes made to Python
 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis.
 CNRI
   MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY OF
 EXAMPLE,
   BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR
 WARRANTY
   OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE
 OF
   PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1
 FOR
   ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual
 property
   law of the United States, including without limitation the federal
 copyright
   law, and, to the extent such U.S. federal law does not apply, by the law
 of the
   Commonwealth of Virginia, excluding Virginia's conflict of law
 provisions.
   Notwithstanding the foregoing, with regard to derivative works based on
 Python
   1.6.1 that incorporate non-separable material that was previously
 distributed
   under the GNU General Public License (GPL), the law of the Commonwealth
 of
   Virginia shall govern this License Agreement only as to issues arising
 under or
   with respect to Paragraphs 4, 5, and 7 of this License Agreement.
 Nothing in
   this License Agreement shall be deemed to create any relationship of
 agency,
   partnership, or joint venture between CNRI and Licensee.  This License
 Agreement
   does not grant permission to use CNRI trademarks or trade name in a
 trademark
   sense to endorse or promote products or services of Licensee, or any
 third
```

```
   party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
 installing
   or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms
 and
   conditions of this License Agreement.

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright © 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The
Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
 that
the above copyright notice appear in all copies and that both that copyright
notice and this permission notice appear in supporting documentation, and
 that
the name of Stichting Mathematisch Centrum or CWI not be used in advertising
 or
publicity pertaining to distribution of the software without specific,
 written
prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS,
 IN NO
EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL,
 INDIRECT
OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
 USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
 TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Licenses and Acknowledgements for Incorporated Software

This section is an incomplete, but growing list of licenses and
 acknowledgements for third-party software incorporated in the Python
 distribution.
Mersenne Twister

The _random module includes code based on a download from http://
www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The
 following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
```

```
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

 3. The names of its contributors may not be used to endorse or promote
    products derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The socket module uses the functions, getaddrinfo(), and getnameinfo(),
 which are coded in separate source files from the WIDE Project, http://
www.wide.ad.jp/.

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Floating point exception control

The source for the fpectl module includes the following notice:

  ----------------------------------------------------------------------
```

```
 /                       Copyright (c) 1996.                            \
|          The Regents of the University of California.                 |
|                        All rights reserved.                           |
|                                                                       |
|   Permission to use, copy, modify, and distribute this software for   |
|   any purpose without fee is hereby granted, provided that this en-   |
|   tire notice is included in all copies of any software which is or   |
|   includes  a  copy  or  modification  of  this software and in all   |
|   copies of the supporting documentation for such software.           |
|                                                                       |
|   This  work was produced at the University of California, Lawrence   |
|   Livermore National Laboratory under  contract  no.  W-7405-ENG-48   |
|   between  the  U.S.  Department  of  Energy and The Regents of the   |
|   University of California for the operation of UC LLNL.              |
|                                                                       |
|                              DISCLAIMER                               |
|                                                                       |
|   This  software was prepared as an account of work sponsored by an   |
|   agency of the United States Government. Neither the United States   |
|   Government  nor the University of California nor any of their em-   |
|   ployees, makes any warranty, express or implied, or  assumes  any   |
|   liability  or  responsibility  for the accuracy, completeness, or   |
|   usefulness of any information,  apparatus,  product,  or  process   |
|   disclosed,   or  represents  that  its  use  would  not  infringe   |
|   privately-owned rights. Reference herein to any specific  commer-   |
|   cial  products,  process,  or  service  by trade name, trademark,   |
|   manufacturer, or otherwise, does not  necessarily  constitute  or   |
|   imply  its endorsement, recommendation, or favoring by the United   |
|   States Government or the University of California. The views  and   |
|   opinions  of authors expressed herein do not necessarily state or   |
|   reflect those of the United States Government or  the  University   |
|   of  California,  and shall not be used for advertising or product   |
 \  endorsement purposes.                                              /
  ---------------------------------------------------------------------
```

Asynchronous socket services

The asynchat and asyncore modules contain the following notice:

Copyright 1996 by Sam Rushing

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Sam Rushing not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

SAM RUSHING DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL SAM RUSHING BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Cookie management

The http.cookies module contains the following notice:

```
Copyright 2000 by Timothy O'Malley <timo@alum.mit.edu>

               All Rights Reserved

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appear in all
copies and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of
Timothy O'Malley  not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

Timothy O'Malley DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS, IN NO EVENT SHALL Timothy O'Malley BE LIABLE FOR
ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Execution tracing

The trace module contains the following notice:

portions copyright 2001, Autonomous Zones Industries, Inc., all rights...
err...  reserved and offered to the public under the terms of the
Python 2.2 license.
Author: Zooko O'Whielacronx
http://zooko.com/
mailto:zooko@zooko.com

Copyright 2000, Mojam Media, Inc., all rights reserved.
Author: Skip Montanaro

Copyright 1999, Bioreason, Inc., all rights reserved.
Author: Andrew Dalke

Copyright 1995-1997, Automatrix, Inc., all rights reserved.
Author: Skip Montanaro

Copyright 1991-1995, Stichting Mathematisch Centrum, all rights reserved.


Permission to use, copy, modify, and distribute this Python software and
its associated documentation for any purpose without fee is hereby
granted, provided that the above copyright notice appears in all copies,
and that both that copyright notice and this permission notice appear in
supporting documentation, and that the name of neither Automatrix,
Bioreason or Mojam Media be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

UUencode and UUdecode functions

The uu module contains the following notice:

Copyright 1994 by Lance Ellinghouse
Cathedral City, California Republic, United States of America.
                       All Rights Reserved
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
```

```
supporting documentation, and that the name of Lance Ellinghouse
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
LANCE ELLINGHOUSE DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL LANCE ELLINGHOUSE CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The xmlrpc.client module contains the following notice:

    The XML-RPC client interface is

Copyright (c) 1999-2002 by Secret Labs AB
Copyright (c) 1999-2002 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its
associated documentation, you agree that you have read, understood,
and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and
its associated documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice appears in
all copies, and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of
Secret Labs AB or the author not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD
TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANT-
ABILITY AND FITNESS.  IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR
BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY
DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THIS SOFTWARE.

test_epoll

The test_epoll module contains the following notice:

Copyright (c) 2001-2006 Twisted Matrix Laboratories.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Select kqueue

The select module contains the following notice for the kqueue interface:

Copyright (c) 2000 Doug White, 2006 James Knight, 2007 Christian Heimes
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

SipHash24

The file Python/pyhash.c contains Marek Majkowski' implementation of Dan
 Bernstein's SipHash24 algorithm. The contains the following note:

<MIT License>
Copyright (c) 2013  Marek Majkowski <marek@popcount.org>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
</MIT License>

Original location:
   https://github.com/majek/csiphash/

Solution inspired by code from:
   Samuel Neves (supercop/crypto_auth/siphash24/little)
   djb (supercop/crypto_auth/siphash24/little2)
   Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)
```

```
strtod and dtoa

The file Python/dtoa.c, which supplies C functions dtoa and strtod for
 conversion of C doubles to and from strings, is derived from the file
 of the same name by David M. Gay, currently available from http://
www.netlib.org/fp/. The original file, as retrieved on March 16, 2009,
 contains the following copyright and licensing notice:

/***************************************************************
 *
 * The author of this software is David M. Gay.
 *
 * Copyright (c) 1991, 2000, 2001 by Lucent Technologies.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose without fee is hereby granted, provided that this entire notice
 * is included in all copies of any software which is or includes a copy
 * or modification of this software and in all copies of the supporting
 * documentation for such software.
 *
 * THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
 * WARRANTY.  IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY
 * REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
 * OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.
 *
 ***************************************************************/

OpenSSL

The modules hashlib, posix, ssl, crypt use the OpenSSL library for added
 performance if made available by the operating system. Additionally,
 the Windows and Mac OS X installers for Python may include a copy of the
 OpenSSL libraries, so we include a copy of the OpenSSL license here:

 LICENSE ISSUES
 ==============

 The OpenSSL toolkit stays under a dual license, i.e. both the conditions of
 the OpenSSL License and the original SSLeay license apply to the toolkit.
 See below for the actual license texts. Actually both licenses are BSD-
style
 Open Source licenses. In case of any license issues related to OpenSSL
 please contact openssl-core@openssl.org.

 OpenSSL License
 ---------------

   /* ====================================================================
    * Copyright (c) 1998-2008 The OpenSSL Project.  All rights reserved.
    *
    * Redistribution and use in source and binary forms, with or without
    * modification, are permitted provided that the following conditions
    * are met:
    *
    * 1. Redistributions of source code must retain the above copyright
    *    notice, this list of conditions and the following disclaimer.
    *
    * 2. Redistributions in binary form must reproduce the above copyright
    *    notice, this list of conditions and the following disclaimer in
    *    the documentation and/or other materials provided with the
    *    distribution.
    *
    * 3. All advertising materials mentioning features or use of this
```

```
    *    software must display the following acknowledgment:
    *    "This product includes software developed by the OpenSSL Project
    *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
    *
    * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used
 to
    *    endorse or promote products derived from this software without
    *    prior written permission. For written permission, please contact
    *    openssl-core@openssl.org.
    *
    * 5. Products derived from this software may not be called "OpenSSL"
    *    nor may "OpenSSL" appear in their names without prior written
    *    permission of the OpenSSL Project.
    *
    * 6. Redistributions of any form whatsoever must retain the following
    *    acknowledgment:
    *    "This product includes software developed by the OpenSSL Project
    *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
    *
    * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
    * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
    * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
    * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
    * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
    * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
    * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
    * OF THE POSSIBILITY OF SUCH DAMAGE.
    * ====================================================================
    *
    * This product includes cryptographic software written by Eric Young
    * (eay@cryptsoft.com).  This product includes software written by Tim
    * Hudson (tjh@cryptsoft.com).
    *
    */

Original SSLeay License
-----------------------

   /* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
    * All rights reserved.
    *
    * This package is an SSL implementation written
    * by Eric Young (eay@cryptsoft.com).
    * The implementation was written so as to conform with Netscapes SSL.
    *
    * This library is free for commercial and non-commercial use as long as
    * the following conditions are aheared to.  The following conditions
    * apply to all code found in this distribution, be it the RC4, RSA,
    * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
    * included with this distribution is covered by the same copyright terms
    * except that the holder is Tim Hudson (tjh@cryptsoft.com).
    *
    * Copyright remains Eric Young's, and as such any Copyright notices in
    * the code are not to be removed.
    * If this package is used in a product, Eric Young should be given
 attribution
    * as the author of the parts of the library used.
    * This can be in the form of a textual message at program startup or
    * in documentation (online or textual) provided with the package.
    *
```

```
    * Redistribution and use in source and binary forms, with or without
    * modification, are permitted provided that the following conditions
    * are met:
    * 1. Redistributions of source code must retain the copyright
    *    notice, this list of conditions and the following disclaimer.
    * 2. Redistributions in binary form must reproduce the above copyright
    *    notice, this list of conditions and the following disclaimer in the
    *    documentation and/or other materials provided with the
 distribution.
    * 3. All advertising materials mentioning features or use of this
 software
    *    must display the following acknowledgement:
    *    "This product includes cryptographic software written by
    *     Eric Young (eay@cryptsoft.com)"
    *    The word 'cryptographic' can be left out if the rouines from the
 library
    *    being used are not cryptographic related :-).
    * 4. If you include any Windows specific code (or a derivative thereof)
 from
    *    the apps directory (application code) you must include an
 acknowledgement:
    *    "This product includes software written by Tim Hudson
 (tjh@cryptsoft.com)"
    *
    * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
    * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE
 LIABLE
    * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
 GOODS
    * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    * SUCH DAMAGE.
    *
    * The licence and distribution terms for any publically available
 version or
    * derivative of this code cannot be changed.  i.e. this code cannot
 simply be
    * copied and put under another distribution licence
    * [including the GNU Public Licence.]
    */

expat

The pyexpat extension is built using an included copy of the expat sources
 unless the build is configured --with-system-expat:

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
                               and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
```

```
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

libffi

The _ctypes extension is built using an included copy of the libffi sources
 unless the build is configured --with-system-libffi:

Copyright (c) 1996-2008  Red Hat, Inc and others.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

zlib

The zlib extension is built using an included copy of the zlib sources if
 the zlib version found on the system is too old to be used for the build:

Copyright (C) 1995-2011 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.
```

```
Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

cfuhash

The implementation of the hash table used by the tracemalloc is based on the
 cfuhash project:

Copyright (c) 2005 Don Owens
All rights reserved.

This code is released under the BSD license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials provided
    with the distribution.

  * Neither the name of the author nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

libmpdec

The _decimal module is built using an included copy of the libmpdec library
 unless the build is configured --with-system-libmpdec:

Copyright (c) 2008-2016 Stefan Krah. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
```

Provider: Python Software Foundation / Component(s): Python 3.9.19

```
------------------------------- Top-level license --------------------------
A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
```

```
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
```

```
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
```

```
----------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the Internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the Internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
```

```
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
-------------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

------------------------------- Copyright notices --------------------------
Copyright 2007 Google, Inc. All Rights Reserved.
Copyright 2007 Georg Brandl.
Copyright 2008 Armin Ronacher.
Copyright 2004-2005 Elemental Security, Inc. All Rights Reserved.
Copyright 2009 Brian Quinlan. All Rights Reserved.
Copyright (c) 1999-2002 by Secret Labs AB.
Copyright (c) 2003-2009 by Fredrik Lundh.  All rights reserved.
Copyright (C) 2005, 2006 Martin von Löwis
Copyright (C) 2011-2014 Vinay Sajip.
Copyright (c) 1999-2003 Steve Purcell
Copyright (c) 2003-2010 Python Software Foundation
Copyright (c) 2006-2008, R Oudkerk

---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 1
_libgcc_mutex
```

```
== License
BSD 3-clause license
Copyright (c) 2015-2019, conda-forge
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
Copyright (c) 2015-2019, conda-forge
All rights reserved.

--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 2
_openmp_mutex

== License
BSD 3-clause license
Copyright (c) 2015-2022, conda-forge contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
```

```
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
Copyright (c) 2015-2022, conda-forge contributors
All rights reserved.

--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 3
ca-certificates

== License
BSD-3-Clause license
Copyright (c) 2015-2022, conda-forge contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  3. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived from
     this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

== Copyright Notices
Copyright (c) 2015-2022, conda-forge contributors
All rights reserved.

--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 4
ld_impl_linux-64

== License
     GNU LESSER GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.


  This version of the GNU Lesser General Public License incorporates
```

```
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

  0. Additional Definitions.

  As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

  "The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

  An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

  A "Combined Work" is a work produced by combining or linking an
Application with the Library.  The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

  The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

  The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

  1. Exception to Section 3 of the GNU GPL.

  You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

  2. Conveying Modified Versions.

  If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified
version:

   a) under this License, provided that you make a good faith effort to
   ensure that, in the event an Application does not supply the
   function or data, the facility still operates, and performs
   whatever part of its purpose remains meaningful, or

   b) under the GNU GPL, with none of the additional permissions of
   this License applicable to that copy.

  3. Object Code Incorporating Material from Library Header Files.

  The object code form of an Application may incorporate material from
a header file that is part of the Library.  You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

   a) Give prominent notice with each copy of the object code that the
   Library is used in it and that the Library and its use are
```

```
   covered by this License.

   b) Accompany the object code with a copy of the GNU GPL and this license
   document.

  4. Combined Works.

  You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

   a) Give prominent notice with each copy of the Combined Work that
   the Library is used in it and that the Library and its use are
   covered by this License.

   b) Accompany the Combined Work with a copy of the GNU GPL and this
 license
   document.

   c) For a Combined Work that displays copyright notices during
   execution, include the copyright notice for the Library among
   these notices, as well as a reference directing the user to the
   copies of the GNU GPL and this license document.

   d) Do one of the following:

       0) Convey the Minimal Corresponding Source under the terms of this
       License, and the Corresponding Application Code in a form
       suitable for, and under terms that permit, the user to
       recombine or relink the Application with a modified version of
       the Linked Version to produce a modified Combined Work, in the
       manner specified by section 6 of the GNU GPL for conveying
       Corresponding Source.

       1) Use a suitable shared library mechanism for linking with the
       Library.  A suitable mechanism is one that (a) uses at run time
       a copy of the Library already present on the user's computer
       system, and (b) will operate properly with a modified version
       of the Library that is interface-compatible with the Linked
       Version.

   e) Provide Installation Information, but only if you would otherwise
   be required to provide such information under section 6 of the
   GNU GPL, and only to the extent that such information is
   necessary to install and execute a modified version of the
   Combined Work produced by recombining or relinking the
   Application with a modified version of the Linked Version. (If
   you use option 4d0, the Installation Information must accompany
   the Minimal Corresponding Source and Corresponding Application
   Code. If you use option 4d1, you must provide the Installation
   Information in the manner specified by section 6 of the GNU GPL
   for conveying Corresponding Source.)

  5. Combined Libraries.

  You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

   a) Accompany the combined library with a copy of the same work based
```

```
   on the Library, uncombined with any other library facilities,
   conveyed under the terms of this License.

   b) Give prominent notice with the combined library that part of it
   is a work based on the Library, and explaining where to find the
   accompanying uncombined form of the same work.

  6. Revised Versions of the GNU Lesser General Public License.

  The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

  Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

  If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

== Copyright Notices
 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 5
libffi

== License
libffi - Copyright (c) 1996-2024  Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

== Copyright Notices
```

```
Copyright (c) 1996-2024  Anthony Green, Red Hat, Inc and others.

--------------------------------(separator)---------------------------------

== NAME OF DEPENDENCY 6, 7, 8
libgcc-ng
libgomp
libstdcxx-ng

== License
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
```

```
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.

== Copyright Notices
Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

---------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY 9
ncurses

== License
Copyright 2018-2021,2022 Thomas E. Dickey
Copyright 1998-2017,2018 Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization.

-- vile:txtmode fc=72
-- $Id: COPYING,v 1.11 2022/01/01 11:47:50 tom Exp $

== Copyright Notices
Copyright 2018-2021,2022 Thomas E. Dickey
Copyright 1998-2017,2018 Free Software Foundation, Inc.
```

```
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 10
openssl

== License
                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

== Copyright Notices
Copyright 1999-2021 The OpenSSL Project Authors. All Rights Reserved.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 11
setuptools

== License
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

== Copyright Notices

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 12
sqlite

== License
The author disclaims copyright to this source code.  In place of
a legal notice, here is a blessing:

  *   May you do good and not evil.
  *   May you find forgiveness for yourself and forgive others.
  *   May you share freely, never taking more than you give.

== Copyright Notices

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 13
tk

== License
This software is copyrighted by the Regents of the University of
California, Sun Microsystems, Inc., Scriptics Corporation, ActiveState
Corporation and other parties.  The following terms apply to all files
associated with the software unless explicitly disclaimed in
individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.  THIS SOFTWARE
```

```
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2).  If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7014 (b) (3) of DFARs.  Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.

== Copyright Notices
Copyright (c) 1993-1998  Lucent Technologies, Inc.
Copyright (c) 2008  Arnulf P. Wiedemann
Copyright (c) 2008 by Kevin B. Kenny
Copyright: ((C) 1987-1993 Adobe Systems Incorporated All Rights Reserved)
Copyright: ((C) 1987-1994 Adobe Systems Incorporated All Rights Reserved)
Copyright (c) 1993 The Regents of the University of California.
Copyright (c) 1994-1997 Sun Microsystems, Inc.
Copyright (c) 1998-1999 Scriptics Corporation.
Copyright \xA9 %s" {1996-1997 Sun Microsystems, Inc.}]
Copyright \xA9 %s" {1997-2000 Ajuba Solutions, Inc.}]
Copyright \xA9 %s" {2001-2009 Donal K. Fellows}]
Copyright \xA9 %s" {2002-2007 Daniel A. Steffen}]"
Copyright (C) 2008 Pat Thoyts <patthoyts@users.sourceforge.net>
Copyright (C) 2004 Pat Thoyts <patthoyts@users.sourceforge.net>
Copyright (c) 1992-1994 The Regents of the University of California.
Copyright (c) 2004, Joe English
Copyright (c) 1994 The Regents of the University of California.
Copyright (c) 1994 Sun Microsystems, Inc.
Copyright (c) 1994-1995 Sun Microsystems, Inc.
Copyright (c) 1992-1993 The Regents of the University of California.
Copyright (c) 1997 Sun Microsystems, Inc.
Copyright (c) 1995-1997 Sun Microsystems, Inc.
Copyright (c) 1996 Sun Microsystems, Inc.
Copyright (c) 1998-2000 by Ajuba Solutions.
Copyright (c) 2007 by ActiveState Software Inc.
Copyright (c) 2007 Daniel A. Steffen <das@users.sourceforge.net>
Copyright (c) 2009 Pat Thoyts <patthoyts@users.sourceforge.net>
Copyright (c) 2009-2010 Donal K. Fellows
Copyright (c) 1998-2000 by Scriptics Corporation.
Copyright (c) 1994-1996 Sun Microsystems, Inc.
Copyright (c) 1998 by Scriptics Corporation.
Copyright (c) 1999-2000 Jeffrey Hobbs
Copyright (c) 2000 Ajuba Solutions
Copyright (c) 1994-1998 Sun Microsystems, Inc.
Copyright (c) 2009 Donal K. Fellows
Copyright (C) 2008 Keith Vetter
Copyright (c) 2002 ActiveState Corporation.
Copyright (c) 1998-2000 Ajuba Solutions.
Copyright (c) 1998-2000 Scriptics Corporation
Copyright (c) 2007-2008 Daniel A. Steffen <das@users.sourceforge.net>
Copyright (c) 1991-1993 The Regents of the University of California.
Copyright (c) 1998 Scriptics Corporation.
Copyright (c) 2004 Kevin B. Kenny.  All rights reserved.
Copyright (c) 1996-1997 Sun Microsystems, Inc.
Copyright (c) 2004-2007 Kevin B. Kenny
Copyright (c) 2009 by Slawomir Cygan
Copyright (C) 2003 Zoran Vasiljevic, Archiware GmbH. All Rights Reserved.
```

```
Copyright (c) 2008 by Kevin B. Kenny.
Copyright (c) 2010-2015 Harald Oehlmann.
Copyright (c) 1998 Mark Harrison.
Copyright © 1994-1997 Sun Microsystems, Inc.
Copyright © 1998-1999 Scriptics Corporation.
Copyright © 2000 Ajuba Solutions
Copyright 2001-2009, Apple Inc.
Copyright (c) 2005-2009 Daniel A. Steffen <das@users.sourceforge.net>
Copyright (c) 1991-1994 The Regents of the University of California.
Copyright (c) 1995 Sun Microsystems, Inc.
Copyright (c) 1990-1994 The Regents of the University of California.
Copyright (c) 2006-2009 Daniel A. Steffen <das@users.sourceforge.net>
Copyright (c) 2002 by Zoran Vasiljevic.
Copyright (c) 2006 by Kevin B. Kenny
Copyright 1993-1998 Lucent Technologies, Inc.
Copyright (c) 1996-1997 by Sun Microsystems, Inc.
Copyright (c) 2002 Ludwig Callewaert.
Copyright (c) 1998-1999 by Scriptics Corporation.
Copyright (c) 2006-2010 by Donal K. Fellows
Copyright (c) 1995-1996 Sun Microsystems, Inc.
Copyright 2008-2009, Apple Inc.
Copyright (c) 2008-2009 Daniel A. Steffen <das@users.sourceforge.net>
Copyright (c) 2017 Marc Culler
Copyright (c) 2007 by Arnulf P. Wiedemann
Copyright (c) 1996 by Sun Microsystems, Inc.
Copyright (c) 1999-2000 by Scriptics Corporation.
Copyright (c) 1994 The Australian National University.
Copyright (c) 2002-2008 Donal K. Fellows
Copyright (c) 2003 ActiveState Corporation.
Copyright (c) 2002 Apple Inc.
Copyright (c) 1996-1998 by Sun Microsystems, Inc.
Copyright (c) 2018 Gregor Cramer.
Copyright (c) 2018-2019 Gregor Cramer.
Copyright (c) 2008-2009 Apple Inc.
Copyright (c) 2020 Marc Culler
Copyright (c) 2006-2012 by Donal K. Fellows
Copyright (c) 2005 by Kevin B. Kenny.  All rights reserved.
Copyright (c) 1989-1994 The Regents of the University of California.
Copyright (c) 1987-1994 The Regents of the University of California.
Copyright (c) 1993-1996 Lucent Technologies.
Copyright (c) 2002 by Kevin B. Kenny.  All rights reserved.
Copyright (c) 1987-1993 The Regents of the University of California.
Copyright (c) 1993-1997 Lucent Technologies.
Copyright (c) 2001, 2002 by Kevin B. Kenny.  All rights reserved.
Copyright (c) 2006-2008 by Joe Mistachkin.  All rights reserved.
Copyright (c) 2008 by Miguel Sofer. All rights reserved.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 14
tzdata

== License
Unless specified below, all files in the tz code and data (including
this LICENSE file) are in the public domain.

If the files date.c, newstrftime.3, and strftime.c are present, they
contain material derived from BSD and use the BSD 3-clause license.

== Copyright Notices

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 15
wheel
```

```
== License
MIT License

Copyright (c) 2012 Daniel Holth <dholth@fastmail.fm> and contributors

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

== Copyright Notices
Copyright (c) 2012 Daniel Holth <dholth@fastmail.fm> and contributors

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 16
xz
== License
XZ Utils Licensing
==================

    Different licenses apply to different files in this package. Here
    is a rough summary of which licenses apply to which parts of this
    package (but check the individual files to be sure!):

      - liblzma is in the public domain.

      - xz, xzdec, and lzmadec command line tools are in the public
        domain unless GNU getopt_long had to be compiled and linked
        in from the lib directory. The getopt_long code is under
        GNU LGPLv2.1+.

      - The scripts to grep, diff, and view compressed files have been
        adapted from gzip. These scripts and their documentation are
        under GNU GPLv2+.

      - All the documentation in the doc directory and most of the
        XZ Utils specific documentation files in other directories
        are in the public domain.

        Note: The JavaScript files (under the MIT license) have
        been removed from the Doxygen-generated HTML version of the
        liblzma API documentation. Doxygen itself is under the GNU GPL
        but the remaining files generated by Doxygen are not affected
        by the licenses used in Doxygen because Doxygen licensing has
        the following exception:

            "Documents produced by doxygen are derivative works
            derived from the input used in their production;
            they are not affected by this license."

      - Translated messages are in the public domain.
```

```
      - The build system contains public domain files, and files that
        are under GNU GPLv2+ or GNU GPLv3+. None of these files end up
        in the binaries being built.

      - Test files and test code in the tests directory, and debugging
        utilities in the debug directory are in the public domain.

      - The extra directory may contain public domain files, and files
        that are under various free software licenses.

    You can do whatever you want with the files that have been put into
    the public domain. If you find public domain legally problematic,
    take the previous sentence as a license grant. If you still find
    the lack of copyright legally problematic, you have too many
    lawyers.

    As usual, this software is provided "as is", without any warranty.

    If you copy significant amounts of public domain code from XZ Utils
    into your project, acknowledging this somewhere in your software is
    polite (especially if it is proprietary, non-free software), but
    naturally it is not legally required. Here is an example of a good
    notice to put into "about box" or into documentation:

        This software includes code from XZ Utils
        <https://xz.tukaani.org/xz-utils/>.

    The following license texts are included in the following files:
      - COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1
      - COPYING.GPLv2: GNU General Public License version 2
      - COPYING.GPLv3: GNU General Public License version 3

    Note that the toolchain (compiler, linker etc.) may add some code
    pieces that are copyrighted. Thus, it is possible that e.g. liblzma
    binary wouldn't actually be in the public domain in its entirety
    even though it contains no copyrighted code from the XZ Utils source
    package.

    If you have questions, don't hesitate to ask the author(s) for more
    information.

== Copyright Notices
Copyright (C) 1998, 2002, 2006, 2007 Free Software Foundation
Copyright (C) 2001, 2002, 2007 Free Software Foundation
Copyright (C) 1992, 1993 Jean-loup Gailly
Copyright (C) 1998, 2002, 2006, 2007 Free Software Foundation
Copyright (C) 1993 Jean-loup Gailly
Copyright (C) 1998, 2001, 2002, 2006, 2007 Free Software Foundation

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 17
zlib

== License
Copyright notice:

 (C) 1995-2022 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
```

```
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

== Copyright Notices
(C) 1995-2022 Jean-loup Gailly and Mark Adler

--------------------------------(separator)---------------------------------
```

Provider: PyTorch Team / Component(s): PyTorch 2.3.1

```
From PyTorch:

Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
```

```
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------
Software under third_party
--------------------------------------------------------------------------
Software libraries under third_party are provided as github submodule
links, and their content is not part of the Caffe2 codebase. Their
licences can be found under the respective software repositories.

--------------------------------------------------------------------------
Earlier BSD License
--------------------------------------------------------------------------
Early development of Caffe2 in 2015 and early 2016 is licensed under the
BSD license. The license is attached below:

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain
```

```
All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-----------------------------------------------------------------------
Caffe's BSD License
-----------------------------------------------------------------------
Some parts of the caffe2 code is derived from the original Caffe code, which
 is
created by Yangqing Jia and is now a BSD-licensed open-source project. The
 Caffe
license is as follows:

COPYRIGHT

All contributions by the University of California:
Copyright (c) 2014, The Regents of the University of California (Regents)
All rights reserved.

All other contributions:
Copyright (c) 2014, the respective contributors
All rights reserved.

Caffe uses a shared copyright model: each contributor holds copyright over
their contributions to Caffe. The project versioning records all such
contribution and copyright details. If a contributor wants to further mark
their specific copyright on a particular contribution, they should indicate
their copyright solely in the commit message of the change when it is
committed.

LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

CONTRIBUTION AGREEMENT

By contributing to the BVLC/caffe repository through pull-request, comment,
or otherwise, the contributor releases their content to the
license and copyright terms herein.

---------------------------------------------------------------------------
Caffe2's Apache License
---------------------------------------------------------------------------

This repo contains Caffe2 code, which was previously licensed under
Apache License Version 2.0:

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
```

```
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
```

```
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

-----------------------------------------------------------------------
Cephes's 3-Clause BSD License
-----------------------------------------------------------------------

Code derived from implementations in the Cephes Math Library should mention
its derivation and reference the following license:

   3-Clause BSD License for the Cephes Math Library
   Copyright (c) 2018, Steven Moshier
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
 met:

   * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

   * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

   * Neither the name of the nor the
   names of its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
   ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
   DISCLAIMED. IN NO EVENT SHALL Steven Moshier BE LIABLE FOR ANY
   DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
   (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
   LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
   ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
   SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
---------------------------------------------------------------------------
SciPy's 3-Clause BSD License
---------------------------------------------------------------------------

Code derived from implementations in SciPy should mention its derivation
and reference the following license:

   Copyright (c) 2001-2002 Enthought, Inc.  2003-2019, SciPy Developers.
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions
   are met:

   1. Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above
     copyright notice, this list of conditions and the following
     disclaimer in the documentation and/or other materials provided
     with the distribution.

   3. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------------------------
Boost's 1.0 Software License
---------------------------------------------------------------------------

Code derived from implementations in Boost 1.0 should mention its
derivation and reference the following license:

   Boost Software License - Version 1.0 - August 17th, 2003

   Permission is hereby granted, free of charge, to any person or
 organization
   obtaining a copy of the software and accompanying documentation covered
 by
   this license (the "Software") to use, reproduce, display, distribute,
   execute, and transmit the Software, and to prepare derivative works of
 the
   Software, and to permit third-parties to whom the Software is furnished
 to
   do so, all subject to the following:

   The copyright notices in the Software and this entire statement,
 including
   the above license grant, this restriction and the following disclaimer,
   must be included in all copies of the Software, in whole or in part, and
```

```
   all derivative works of the Software, unless such copies or derivative
   works are solely in the form of machine-executable object code generated
 by
   a source language processor.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
   IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
   FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
   SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
   FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR
 OTHERWISE,
   ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
 OTHER
   DEALINGS IN THE SOFTWARE.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------------------------------------------
PILLOW-SIMD Software License
-----------------------------------------------------------------------

Code derived from implementations in PILLOW-SIMD should mention its
 derivation
and reference the following license:

    The Python Imaging Library (PIL) is

        Copyright © 1997-2011 by Secret Labs AB
        Copyright © 1995-2011 by Fredrik Lundh

    Pillow is the friendly PIL fork. It is

        Copyright © 2010-2022 by Alex Clark and contributors

    Like PIL, Pillow is licensed under the open source HPND License:

    By obtaining, using, and/or copying this software and/or its associated
    documentation, you agree that you have read, understood, and will comply
```

```
    with the following terms and conditions:

    Permission to use, copy, modify, and distribute this software and its
    associated documentation for any purpose and without fee is hereby
 granted,
    provided that the above copyright notice appears in all copies, and that
    both that copyright notice and this permission notice appear in
 supporting
    documentation, and that the name of Secret Labs AB or the author not be
    used in advertising or publicity pertaining to distribution of the
 software
    without specific, written prior permission.

    SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO
 THIS
    SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS.
    IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR ANY
 SPECIAL,
    INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
 FROM
    LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
 NEGLIGENCE
    OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE
 OR
    PERFORMANCE OF THIS SOFTWARE.

-----

-----------------------------------
4th Party Dependencies
-----------------------------------

typing_extensions:

A. HISTORY OF THE SOFTWARE
--------------------------

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property.  Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)
```

```
    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
_______________________________________________________________

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are
retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
```

```
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
```

```
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the Internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the Internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
```

```
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----
dataclasses:
            Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright (c) 2017 Eric V. Smith

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-----
astunparse:
 LICENSE
-----

Copyright (c) 2014, Simon Percivall
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
```

```
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of AST Unparser nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are
 retained
in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
```

```
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
-----future:
Copyright (c) 2013-2016 Python Charmers Pty Ltd, Australia

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-----numpy:
Copyright (c) 2005-2021, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

https://github.com/numpy/numpy/blob/main/LICENSES_bundled.txt
```

```
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib

For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

The following software, include the ones above, is bundled/embedded with
 numpy - their licenses follow in order:
OpenBLAS
lapack-lite
tempita
dragon4
libdivide
SPLITMIX64
SFC64
PHILOX
PCG64
MT19937
Julia
Random
nympy.core.ma


Name: OpenBLAS
Files: .libs/libopenb*.so
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.
```

```
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-----------------------------------------------------------------------------------------------

Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
License: 3-clause BSD
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------
Name: tempita
Files: tools/npy_tempita/*
License: MIT
```

```
  For details, see tools/npy_tempita/license.txt

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

-----------------------------------------------------------------------------
Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt
zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
```

```
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.


--------------------------------------------------------------------------------
Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md
Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------
Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md
© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
--------------------------------------------------------------------------------




--------------------------------------------------------------------------------

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.
```

```
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

-------------------------------------------------------------------------------------------------------

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
```

```
     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------
-----psutil:
BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola'
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
-----pyyaml:
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-----requests:
Copyright 2019 Kenneth Reitz

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
```

```
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.


-----setuptools:
Copyright Jason R. Coombs

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
-----six:
Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
-----filelock:
copyright: 2014-2024, tox-dev

This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>


-----sympy:
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
```

```
are licensed as:

Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:

Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
```

```
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----
networkx:

NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2024, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----
fsspec:

BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
```

```
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----
Jinja2:
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: PyTorch Team / Component(s): PyTorch 2.4.0

```
From PyTorch:

Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
```

```
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
```

```
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

_______________________________________________________________________

Software under third_party
_______________________________________________________________________
Software libraries under third_party are provided as github submodule
links, and their content is not part of the Caffe2 codebase. Their
licences can be found under the respective software repositories.

_______________________________________________________________________

Earlier BSD License
_______________________________________________________________________

Early development of Caffe2 in 2015 and early 2016 is licensed under the
BSD license. The license is attached below:

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



_____________________________________________________________________________

Caffe's BSD License
_____________________________________________________________________________
Some parts of the caffe2 code is derived from the original Caffe code, which
 is
created by Yangqing Jia and is now a BSD-licensed open-source project. The
 Caffe
license is as follows:

COPYRIGHT

All contributions by the University of California:
Copyright (c) 2014, The Regents of the University of California (Regents)
All rights reserved.

All other contributions:
Copyright (c) 2014, the respective contributors
All rights reserved.

Caffe uses a shared copyright model: each contributor holds copyright over
their contributions to Caffe. The project versioning records all such
contribution and copyright details. If a contributor wants to further mark
their specific copyright on a particular contribution, they should indicate
their copyright solely in the commit message of the change when it is
committed.

LICENSE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

CONTRIBUTION AGREEMENT

By contributing to the BVLC/caffe repository through pull-request, comment,
or otherwise, the contributor releases their content to the
```

```
license and copyright terms herein.

____________________________________________________________________________

Caffe2's Apache License
____________________________________________________________________________


This repo contains Caffe2 code, which was previously licensed under
Apache License Version 2.0:

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

_____________________________________________________________________

Cephes's 3-Clause BSD License

_____________________________________________________________________
```

```
Code derived from implementations in the Cephes Math Library should mention
its derivation and reference the following license:

   3-Clause BSD License for the Cephes Math Library
   Copyright (c) 2018, Steven Moshier
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
 met:

   * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

   * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

   * Neither the name of the nor the
   names of its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
   ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
   DISCLAIMED. IN NO EVENT SHALL Steven Moshier BE LIABLE FOR ANY
   DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
   (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
   LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
   ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
   SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


_____________________________________________________________________________

SciPy's 3-Clause BSD License
_____________________________________________________________________________


Code derived from implementations in SciPy should mention its derivation
and reference the following license:

   Copyright (c) 2001-2002 Enthought, Inc.  2003-2019, SciPy Developers.
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions
   are met:

   1. Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above
     copyright notice, this list of conditions and the following
```

```
     disclaimer in the documentation and/or other materials provided
     with the distribution.

   3. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


_____________________________________________________________________________

Boost's 1.0 Software License
_____________________________________________________________________________


Code derived from implementations in Boost 1.0 should mention its
derivation and reference the following license:

   Boost Software License - Version 1.0 - August 17th, 2003

   Permission is hereby granted, free of charge, to any person or
 organization
   obtaining a copy of the software and accompanying documentation covered
 by
   this license (the "Software") to use, reproduce, display, distribute,
   execute, and transmit the Software, and to prepare derivative works of
 the
   Software, and to permit third-parties to whom the Software is furnished
 to
   do so, all subject to the following:

   The copyright notices in the Software and this entire statement,
 including
   the above license grant, this restriction and the following disclaimer,
   must be included in all copies of the Software, in whole or in part, and
   all derivative works of the Software, unless such copies or derivative
   works are solely in the form of machine-executable object code generated
 by
   a source language processor.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
   IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
   FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
   SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
   FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR
 OTHERWISE,
   ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
 OTHER
   DEALINGS IN THE SOFTWARE.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

_____________________________________________________________________________

PILLOW-SIMD Software License
_____________________________________________________________________________


Code derived from implementations in PILLOW-SIMD should mention its
 derivation
and reference the following license:

    The Python Imaging Library (PIL) is

        Copyright © 1997-2011 by Secret Labs AB
        Copyright © 1995-2011 by Fredrik Lundh

    Pillow is the friendly PIL fork. It is

        Copyright © 2010-2022 by Alex Clark and contributors

    Like PIL, Pillow is licensed under the open source HPND License:

    By obtaining, using, and/or copying this software and/or its associated
    documentation, you agree that you have read, understood, and will comply
    with the following terms and conditions:

    Permission to use, copy, modify, and distribute this software and its
    associated documentation for any purpose and without fee is hereby
 granted,
    provided that the above copyright notice appears in all copies, and that
    both that copyright notice and this permission notice appear in
 supporting
    documentation, and that the name of Secret Labs AB or the author not be
    used in advertising or publicity pertaining to distribution of the
 software
    without specific, written prior permission.

    SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO
 THIS
    SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS.
```

```
    IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR ANY
 SPECIAL,
    INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
 FROM
    LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
 NEGLIGENCE
    OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE
 OR
    PERFORMANCE OF THIS SOFTWARE.

-----

-----------------------------------
4th Party Dependencies
-----------------------------------

typing_extensions:

A. HISTORY OF THE SOFTWARE
--------------------------

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property.  Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
```

```
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
---------------------------------------------------------------

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are
retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
```

```
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
```

```
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the Internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the Internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------
```

```
Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-----
dataclasses:
            Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright (c) 2017 Eric V. Smith

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-----
astunparse:
 LICENSE
------=

Copyright (c) 2014, Simon Percivall
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of AST Unparser nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
```

```
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are
 retained
in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
-----
future:
Copyright (c) 2013-2016 Python Charmers Pty Ltd, Australia

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-----
numpy:
Copyright (c) 2005-2021, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

https://github.com/numpy/numpy/blob/main/LICENSES_bundled.txt
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
```

```
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib

For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

The following software, include the ones above, is bundled/embedded with
 numpy - their licenses follow in order:
OpenBLAS
lapack-lite
tempita
dragon4
libdivide
SPLITMIX64
SFC64
PHILOX
PCG64
MT19937
Julia
Random
nympy.core.ma


Name: OpenBLAS
Files: .libs/libopenb*.so
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
--------------------------------------------------------------------------------

Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
License: 3-clause BSD
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt
```

```
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------
Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

------------------------------------------------------------------------------
Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt
zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.
```

```
--------------------------------------------------------------------------------
Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md
Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------
Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md
© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------




--------------------------------------------------------------------------------

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)
```

```
The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md
```

```
The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

---------------------------------------------------------------------------------------------

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
```

```
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------------------------
-----
psutil:
BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola'
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-----
pyyaml:
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
```

```
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-----
requests:
Copyright 2019 Kenneth Reitz

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.


-----
setuptools:
Copyright Jason R. Coombs

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
-----
six:
Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----
filelock:
copyright: 2014-2024, tox-dev

This is free and unencumbered software released into the public domain.
```

```
Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>


-----
sympy:
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:

Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:

Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------
```

```
The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
----
networkx:

NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2024, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----
fsspec:

BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----
Jinja2:
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: QOS.ch / Component(s): logback-classic 1.1.3

```
Development must ensure that the following Eclipse Public License and
 applicable preambles as described below are included in the Oracle Nimbula
 package documentation:
Additionally, the following information must be provided in the 'copyright
 information' file of every Oracle Nimbula package that contains this code:
(1) third party code name and version,
(2) applicable license text/copyright notices contained in this Attribution
 Requirements section below:
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

"[Logback] and the accompanying materials are dual-licensed under
either the terms of the Eclipse Public License v1.0 as published by
the Eclipse Foundation
  or (per the licensee's choosing)
```

```
under the terms of the GNU Lesser General Public License version 2.1"

Oracle elects to license Logback under the EPL v1.0.

1.  The source code for Logback and the Eclipse Public License can be found
 at:   http://www.oracle.com/technetwork/opensource/index.htm  (The EPL
 license is reproduced below).

2.  All past and current Contributors to logback disclaim all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose.  In addition, such
 Contributors are not liable for any damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.


Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
```

```
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.
```

```
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL
```

```
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: QOS.ch / Component(s): Simple Logging Façade for Java (SLF4J) 1.7.25

```
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.
```

```
THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: QOS.ch / Component(s): Simple Logging Facade for Java (SLF4J) 1.7.30

```
org.slf4j:slf4j-parent
-------- Copyrights
Copyright (c) 2004-2017 QOS.ch
 * Copyright (c) 2004-2011 QOS.ch
 * Copyright (c) 2004-2016 QOS.ch
 * Copyright 2001-2004 The Apache Software Foundation.
 * Copyright (C) 1999-2006, QOS.ch
 * Copyright (c) 2004-2005 QOS.ch
Copyright (c) 2004-2013 QOS.ch
 * Copyright (c) 2004-2013 QOS.ch
Copyright (c) 2004-2007 QOS.ch
 * Copyright (c) 2004-2013 QOS.ch, Copyright (C) 2015 Google Inc.
 * Copyright (c) 2004-2012 QOS.ch
Copyright (c) 2004-2011 QOS.ch

======== License
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

======================== Dependencies Grouped by License ============
-------- Dependency
com.google.android:android
-------- Copyrights

-------- Dependency
org.apache.felix:org.apache.felix.framework
-------- Copyrights

Apache Felix Framework
Copyright 2006-2016 The Apache Software Foundation
```

```
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


This product includes software developed at
The OSGi Alliance (http://www.osgi.org/).
Copyright (c) OSGi Alliance (2000, 2015).
Licensed under the Apache License 2.0.

 * Copyright (c) OSGi Alliance (2012, 2014). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2012, 2013). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2010, 2013). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2000, 2013). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2005, 2013). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2000, 2014). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2004, 2013). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2009, 2013). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2007, 2014). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2001, 2013). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2011, 2013). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2004, 2014). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2008, 2013). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2008, 2014). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2010, 2014). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2002, 2013). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2014). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2010, 2012). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2007, 2013). All Rights Reserved.

-------- Dependency
org.apache.felix:org.apache.felix.main
-------- Copyrights
Apache Felix Main
Copyright 2006-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


This product includes software developed at
The OSGi Alliance (http://www.osgi.org/).
Copyright (c) OSGi Alliance (2000, 2015).
Licensed under the Apache License 2.0.

-------- Dependency
org.apache.httpcomponents:httpclient
-------- Copyrights
Apache HttpComponents Client - ${project.name}
Copyright 1999-2009 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

This project contains annotations derived from JCIP-ANNOTATIONS
Copyright (c) 2005 Brian Goetz and Tim Peierls. See http://www.jcip.net

Copyright (c) 2005 Brian Goetz and Tim Peierls.

-------- Dependency
org.apache.httpcomponents:httpcore
-------- Copyrights
HttpCore
Copyright 2005-2009 Apache Software Foundation
```

```
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

-------- Dependency
org.khronos:opengl-api
-------- Copyrights

-------- Dependency
org.osgi:org.osgi.core
-------- Copyrights
 * Copyright (c) OSGi Alliance (2000, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2000, 2008). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2004, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2005, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2007, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2001, 2008). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2008, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2001, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2004, 2008). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2002, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2002, 2008). All Rights Reserved.

-------- Dependency
org.osgi:org.osgi.enterprise
-------- Copyrights
 * Copyright (c) OSGi Alliance (2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2009, 2010). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2008, 2010). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2008, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2001, 2008). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2001, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2004, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2004, 2008). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2005, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2000, 2008). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2002, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2000, 2010). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2007, 2008). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2000, 2009). All Rights Reserved.
 * Copyright (c) OSGi Alliance (2002, 2008). All Rights Reserved.

======== Dependencies Summary
com.google.android:android
org.apache.felix:org.apache.felix.framework
org.apache.felix:org.apache.felix.main
org.apache.httpcomponents:httpclient
org.apache.httpcomponents:httpcore
org.khronos:opengl-api
org.osgi:org.osgi.core
org.osgi:org.osgi.enterprise

======== License used by Dependencies
SPDX:Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
```

```
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
```

```
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

======================== Dependencies Grouped by License ============
-------- Dependency
ch.qos.cal10n:cal10n-api
-------- Copyrights
 * Copyright (c) 2009 QOS.ch All rights reserved.
 * Copyright (c) 2009-2013 QOS.ch All rights reserved.

======== Dependencies Summary
ch.qos.cal10n:cal10n-api

======== License used by Dependencies
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
```

```
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: QOS.ch / Component(s): slf4j-api 1.7.30

```
http://www.slf4j.org/license.html

Copyright (c) 2004-2007 QOS.ch
Copyright (c) 2004-2011 QOS.ch
Copyright (c) 2004-2016 QOS.ch
Copyright (c) 2004-2013 QOS.ch, Copyright (C) 2015 Google Inc.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: QOS.ch / Component(s): slf4j-api 1.7.33

```
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
```

```
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: QOS.ch / Component(s): slf4j-api 1.7.36

```
Copyright (c) 2004-2022 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------
4th Party Dependencies

cal10n

Copyright (c) 2009 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: QOS.ch / Component(s): slf4j-api 2.0.12

```
Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
```

"Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Provider: QOS.ch / Component(s): slf4j-api 2.0.13

Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Provider: QOS.ch / Component(s): slf4j-api 2.0.9

Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE

```
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: QOS.ch / Component(s): slf4j-log4j12 1.7.32

```
Copyright (c) 2004-2017 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Fourth Party Dependency :
1. slf4j-api - same license as above

2. Log4J

Apache log4j
Copyright 2010 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
```

```
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 1999-2005 The Apache Software Foundation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

R to S

Provider: r0man / Component(s): cljs-http 0.1.42

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:
```

```
1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).

2.  All past Contributors to the cljs-http, Version: 0.1.42 disclaim all
 warranties and conditions, express and implied, including warranties
 or conditions of title and non-infringement, and implied warranties or
 conditions of merchantability and fitness for a particular purpose.  In
 addition, such Contributors are not liable for any damages, including
 direct, indirect, special, incidental and consequential damages, such as
 lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4.  {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5.  {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement.  Oracle is solely responsible for any representations
 and warranties contained therein.

{Reproduce EPL as follows:}

Copyright (C) 2012-2016 r0man
Distributed under the Eclipse Public License, the same as Clojure.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents " mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
```

```
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
```

```
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is
 filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
```

```
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.

transit-cljs 0.8.220
Copyright © 2014 Cognitect
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except in compliance with the License. You may obtain a copy
 of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
```

```
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
1. You must give any other recipients of the Work or Derivative Works a copy
 of this License; and
2. You must cause any modified files to carry prominent notices stating that
 You changed the files; and
3. You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
4. If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.
```

```
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
transit-js 0.8.755
Copyright © 2014-2015 Cognitect
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except in compliance with the License. You may obtain a copy
 of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
```

```
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
1. You must give any other recipients of the Work or Derivative Works a copy
 of this License; and
2. You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
```

```
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS

noencore 0.1.19
Copyright (C) 2014 r0man
Distributed under the Eclipse Public License, the same as Clojure.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
```

```
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
```

```
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
```

```
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: r0man / Component(s): inflections 0.9.14

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1. The following files are available in source code form under the Eclipse
 Public License at: http://www.oracle.com/technetwork/opensource/opensource-
code-1366576.html. (The EPL license is reproduced below).

2. All past Contributors to tools.nrepl disclaim all warranties and
 conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose. In addition, such
 Contributors are not liable for any damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.

3. Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.
```

```
4. {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5. {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement. Oracle is solely responsible for any representations and
 warranties contained therein.
Copyright (C) 2013-2016 r0man

Distributed under the Eclipse Public License, the same as Clojure.

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT’S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:


a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
 b) in the case of each subsequent Contributor:

i)changes to the Program, and

ii)additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor’s behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
```

```
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:


a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:


a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
```

```
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor’s responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
```

```
 infringes such Recipient’s patent(s), then such Recipient’s rights granted
 under Section 2(b) shall terminate as of the date such litigation is
 filed.

All Recipient’s rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient’s rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient’s obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Rafael Winterhalter / Component(s): Byte Buddy 1.12.17

```
ByteBuddy

------------------------------ Top-Level License
 -------------------------------
SPDX:Apache-2.0

---------------------------------- Copyright
 ----------------------------------
Copyright 2014 - Present Rafael Winterhalter

-------------------------- Fourth Party Dependencies
 ---------------------------

----------------------------------- Licenses
 -----------------------------------
-  Apache-2.0
-  BSD-3-Clause
-  LGPL-3.0
-  Apache-2.0 OR LGPL-2.1

--------------------------------- (separator)
 ---------------------------------
```

```
== Dependency
com.google.code.findbugs:findbugs-annotations

== License Type
SPDX:LGPL-3.0

== Copyright
Copyright (C) 2003-2007 University of Maryland
Copyright (C) 2005 University of Maryland
Copyright (C) 2005, University of Maryland
Copyright (C) 2005-2006 University of Maryland
Copyright (C) 2005-2006, University of Maryland
Copyright (C) 2008, University of Maryland
Copyright (C) 2011 University of Maryland

---------------------------------- (separator)
 ----------------------------------

== Dependency
com.google.code.findbugs:jsr305

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2005 Brian Goetz

---------------------------------- (separator)
 ----------------------------------

== Dependency
net.java.dev.jna:jna-platform

SPDX-License-Identifier: Apache-2.0 OR LGPL-2.1

Java Native Access (JNA) is licensed under the LGPL, version 2.1
or later, or (from version 4.0 onward) the Apache License,
version 2.0.

You can freely decide which license you want to apply to the project.

You may obtain a copy of the LGPL License at:

http://www.gnu.org/licenses/licenses.html

A copy is also included in the downloadable source code package
containing JNA, in file "LGPL2.1", under the same directory
as this file.

You may obtain a copy of the Apache License at:

http://www.apache.org/licenses/

A copy is also included in the downloadable source code package
containing JNA, in file "AL2.0", under the same directory
as this file.

Commercial support may be available, please e-mail
twall[at]users[dot]sf[dot]net.



== Copyright
```

```
Copyright (c) 2007 Olivier Chafik
Copyright (c) 2007 Olivier Chafik, All Rights Reserved
Copyright (c) 2007 Timothy Wall, All Rights Reserved
Copyright (c) 2007, 2013 Timothy Wall, Markus Karg, All Rights Reserved
Copyright (c) 2007-2008 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2013 Timothy Wall, All Rights Reserved
Copyright (c) 2008 Timothy Wall, All Rights Reserved
Copyright (c) 2010 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2010 EugineLev, All Rights Reserved
Copyright (c) 2010 Timothy Wall, All Rights Reserved
Copyright (c) 2010, 2013 Daniel Doubrovkine, Markus Karg, All Rights
 Reserved
Copyright (c) 2010,2011 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2011 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2011 Denis Tulskiy
Copyright (c) 2011 Timothy Wall, All Rights Reserved
Copyright (c) 2012 Tobias Wolf, All Rights Reserved
Copyright (c) 2013 Ralf Hamberger, Markus Karg, All Rights Reserved
Copyright (c) 2013 Tobias Wolf, All Rights Reserved
Copyright (c) 2014 Dr David H. Akehurst (itemis), All Rights Reserved
Copyright (c) 2014 Reinhard Pointner, All Rights Reserved
Copyright (c) 2015 Adam Marcionek, All Rights Reserved
Copyright (c) 2015 Andreas "PAX" L\u00FCck, All Rights Reserved
Copyright (c) 2015 Daniel Widdis
Copyright (c) 2015 Goldstein Lyor, 2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2015 Goldstein Lyor, All Rights Reserved
Copyright (c) 2015 Michael Freeman, All Rights Reserved
Copyright (c) 2016 Adam Marcionek, All Rights Reserved
Copyright (c) 2016 Minoru Sakamoto, All Rights Reserved
Copyright (c) 2017 Daniel Widdis, All Rights Reserved
Copyright (c) 2017 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2018 Daniel Widdis, All Rights Reserved
Copyright (c) 2018 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2018 Roshan Muralidharan, All Rights Reserved
Copyright (c) 2018 VÃ¡clav Haisman, All Rights Reserved
Copyright (c) 2018, 2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2018,2020,2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2019 Daniel Widdis
Copyright (c) 2019 Daniel Widdis, All Rights Reserved
Copyright (c) 2019 Keve MÃ¼ller
Copyright (c) 2019, 2021 Daniel Widdis
Copyright (c) 2020 Daniel Widdis, All Rights Reserved
Copyright (c) 2020 TorbjÃ¶rn Svensson, All Rights Reserved
Copyright (c) 2022 Daniel Widdis, All Rights Reserved
Copyright 2002-2004 Apache Software Foundation.
Copyright 2010 Digital Rapids Corp.
Copyright 2014 Martin Steiger

---------------------------------- (separator)
 -----------------------------------

== Dependency
net.java.dev.jna:jna

== License Type
=== Unknown License-4ef971ef
SPDX-License-Identifier: Apache-2.0 OR LGPL-2.1

Java Native Access (JNA) is licensed under the LGPL, version 2.1
or later, or (from version 4.0 onward) the Apache License,
version 2.0.

You can freely decide which license you want to apply to the project.
```

```
You may obtain a copy of the LGPL License at:

http://www.gnu.org/licenses/licenses.html

A copy is also included in the downloadable source code package
containing JNA, in file "LGPL2.1", under the same directory
as this file.

You may obtain a copy of the Apache License at:

http://www.apache.org/licenses/

A copy is also included in the downloadable source code package
containing JNA, in file "AL2.0", under the same directory
as this file.

Commercial support may be available, please e-mail
twall[at]users[dot]sf[dot]net.



== Copyright
Copyright (c) 2007 Timothy Wall, All Rights Reserved
Copyright (c) 2007 Wayne Meissner, All Rights Reserved
Copyright (c) 2007-2008 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2012 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2013 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2015 Timothy Wall, All Rights Reserved
Copyright (c) 2009 Timothy Wall, All Rights Reserved
Copyright (c) 2011 Timothy Wall, All Rights Reserved
Copyright (c) 2012 Timothy Wall, All Rights Reserved
Copyright (c) 2017 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2018 Matthias BlÃ¤sing
Copyright (c) 2019 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2021, Matthias BlÃ¤sing, All Rights Reserved



----------------------------------- Licenses
 -----------------------------------
== SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
```

```
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
```

```
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by
 You to the Licensor shall be under the terms and conditions of this
 License, without any additional terms or conditions. Notwithstanding the
 above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may have executed with Licensor regarding such
 Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
```

```
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
See the License for the specific language governing permissions and

limitations under the License.



---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------
== SPDX:LGPL-3.0

                    GNU LESSER GENERAL PUBLIC LICENSE
                        Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.


  This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

  0. Additional Definitions.
```

```
  As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

  "The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

  An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

  A "Combined Work" is a work produced by combining or linking an
Application with the Library.  The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

  The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

  The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

  1. Exception to Section 3 of the GNU GPL.

  You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

  2. Conveying Modified Versions.

  If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified
version:

   a) under this License, provided that you make a good faith effort to
   ensure that, in the event an Application does not supply the
   function or data, the facility still operates, and performs
   whatever part of its purpose remains meaningful, or

   b) under the GNU GPL, with none of the additional permissions of
   this License applicable to that copy.

  3. Object Code Incorporating Material from Library Header Files.

  The object code form of an Application may incorporate material from
a header file that is part of the Library.  You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

   a) Give prominent notice with each copy of the object code that the
   Library is used in it and that the Library and its use are
   covered by this License.

   b) Accompany the object code with a copy of the GNU GPL and this license
   document.
```

```
  4. Combined Works.

  You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

   a) Give prominent notice with each copy of the Combined Work that
   the Library is used in it and that the Library and its use are
   covered by this License.

   b) Accompany the Combined Work with a copy of the GNU GPL and this
 license
   document.

   c) For a Combined Work that displays copyright notices during
   execution, include the copyright notice for the Library among
   these notices, as well as a reference directing the user to the
   copies of the GNU GPL and this license document.

   d) Do one of the following:

       0) Convey the Minimal Corresponding Source under the terms of this
       License, and the Corresponding Application Code in a form
       suitable for, and under terms that permit, the user to
       recombine or relink the Application with a modified version of
       the Linked Version to produce a modified Combined Work, in the
       manner specified by section 6 of the GNU GPL for conveying
       Corresponding Source.

       1) Use a suitable shared library mechanism for linking with the
       Library.  A suitable mechanism is one that (a) uses at run time
       a copy of the Library already present on the user's computer
       system, and (b) will operate properly with a modified version
       of the Library that is interface-compatible with the Linked
       Version.

   e) Provide Installation Information, but only if you would otherwise
   be required to provide such information under section 6 of the
   GNU GPL, and only to the extent that such information is
   necessary to install and execute a modified version of the
   Combined Work produced by recombining or relinking the
   Application with a modified version of the Linked Version. (If
   you use option 4d0, the Installation Information must accompany
   the Minimal Corresponding Source and Corresponding Application
   Code. If you use option 4d1, you must provide the Installation
   Information in the manner specified by section 6 of the GNU GPL
   for conveying Corresponding Source.)

  5. Combined Libraries.

  You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

   a) Accompany the combined library with a copy of the same work based
   on the Library, uncombined with any other library facilities,
   conveyed under the terms of this License.

   b) Give prominent notice with the combined library that part of it
   is a work based on the Library, and explaining where to find the
```

```
   accompanying uncombined form of the same work.

  6. Revised Versions of the GNU Lesser General Public License.

  The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

  Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

  If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.
```

Provider: Rafael Winterhalter / Component(s): Byte Buddy 1.12.19

```
Copyright: Rafael Winterhalter
License: Apache 2.0
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
```

```
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


Copyright ${project.inceptionYear} - ${current.year} ${copyright.holder}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



 ------------- Separator -------------

Dependency: net.bytebuddy:byte-buddy-dep

Copyright: Rafael Winterhalter
License: Apache 2.0



 ------------- Separator -------------

Dependency: org.ow2.asm:asm-commons

Copyright: INRIA, France Telecom
License: BSD 3-Clause



 ------------- Separator -------------

Dependency: org.ow2.asm:asm-tree

Copyright: INRIA, France Telecom
License: BSD 3-Clause



 ------------- Separator -------------
```

```
Dependency: org.ow2.asm:asm

Copyright: INRIA, France Telecom
License: BSD 3-Clause



 ------------- Separator -------------
```

Provider: Rafael Winterhalter / Component(s): Byte Buddy 1.14.12

```
Copyright: Rafael Winterhalter
License: Apache 2.0

 https://www.apache.org/licenses/LICENSE-2.0

                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------
 ./NOTICE

Copyright ${project.inceptionYear} - Present ${copyright.holder}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


-------------- Separator --------------

Dependency: com.google.code.findbugs:findbugs-annotations
License: LGPL
LGPL -> http://www.gnu.org/licenses/lgpl.html

./License LGPL


GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007
Copyright © 2007 Free Software Foundation, Inc. <https://fsf.org/>
```

```
Everyone is permitted to copy and distribute verbatim copies of this license
 document, but changing it is not allowed.
This version of the GNU Lesser General Public License incorporates the terms
 and conditions of version 3 of the GNU General Public License, supplemented
 by the additional permissions listed below.

0. Additional Definitions.
As used herein, “this License” refers to version 3 of the GNU Lesser General
 Public License, and the “GNU GPL” refers to version 3 of the GNU General
 Public License.
“The Library” refers to a covered work governed by this License, other than
 an Application or a Combined Work as defined below.
An “Application” is any work that makes use of an interface provided by
 the Library, but which is not otherwise based on the Library. Defining a
 subclass of a class defined by the Library is deemed a mode of using an
 interface provided by the Library.
A “Combined Work” is a work produced by combining or linking an Application
 with the Library. The particular version of the Library with which the
 Combined Work was made is also called the “Linked Version”.
The “Minimal Corresponding Source” for a Combined Work means the
 Corresponding Source for the Combined Work, excluding any source code for
 portions of the Combined Work that, considered in isolation, are based on
 the Application, and not on the Linked Version.
The “Corresponding Application Code” for a Combined Work means the object
 code and/or source code for the Application, including any data and utility
 programs needed for reproducing the Combined Work from the Application, but
 excluding the System Libraries of the Combined Work.
1. Exception to Section 3 of the GNU GPL.
You may convey a covered work under sections 3 and 4 of this License without
 being bound by section 3 of the GNU GPL.
2. Conveying Modified Versions.
If you modify a copy of the Library, and, in your modifications, a facility
 refers to a function or data to be supplied by an Application that uses the
 facility (other than as an argument passed when the facility is invoked),
 then you may convey a copy of the modified version:
a) under this License, provided that you make a good faith effort to ensure
 that, in the event an Application does not supply the function or data, the
 facility still operates, and performs whatever part of its purpose remains
 meaningful, or
b) under the GNU GPL, with none of the additional permissions of this
 License applicable to that copy.
3. Object Code Incorporating Material from Library Header Files.
The object code form of an Application may incorporate material from a
 header file that is part of the Library. You may convey such object code
 under terms of your choice, provided that, if the incorporated material is
 not limited to numerical parameters, data structure layouts and accessors,
 or small macros, inline functions and templates (ten or fewer lines in
 length), you do both of the following:
a) Give prominent notice with each copy of the object code that the Library
 is used in it and that the Library and its use are covered by this License.
b) Accompany the object code with a copy of the GNU GPL and this license
 document.
4. Combined Works.
You may convey a Combined Work under terms of your choice that, taken
 together, effectively do not restrict modification of the portions of
 the Library contained in the Combined Work and reverse engineering for
 debugging such modifications, if you also do each of the following:
a) Give prominent notice with each copy of the Combined Work that the
 Library is used in it and that the Library and its use are covered by this
 License.
b) Accompany the Combined Work with a copy of the GNU GPL and this license
 document.
c) For a Combined Work that displays copyright notices during execution,
 include the copyright notice for the Library among these notices, as well
```

```
 as a reference directing the user to the copies of the GNU GPL and this
 license document.
d) Do one of the following:
0) Convey the Minimal Corresponding Source under the terms of this License,
 and the Corresponding Application Code in a form suitable for, and under
 terms that permit, the user to recombine or relink the Application with
 a modified version of the Linked Version to produce a modified Combined
 Work, in the manner specified by section 6 of the GNU GPL for conveying
 Corresponding Source.
1) Use a suitable shared library mechanism for linking with the Library.
 A suitable mechanism is one that (a) uses at run time a copy of the
 Library already present on the user's computer system, and (b) will
 operate properly with a modified version of the Library that is interface-
compatible with the Linked Version.
e) Provide Installation Information, but only if you would otherwise be
 required to provide such information under section 6 of the GNU GPL,
 and only to the extent that such information is necessary to install and
 execute a modified version of the Combined Work produced by recombining or
 relinking the Application with a modified version of the Linked Version.
 (If you use option 4d0, the Installation Information must accompany the
 Minimal Corresponding Source and Corresponding Application Code. If you
 use option 4d1, you must provide the Installation Information in the manner
 specified by section 6 of the GNU GPL for conveying Corresponding Source.)
5. Combined Libraries.
You may place library facilities that are a work based on the Library side
 by side in a single library together with other library facilities that
 are not Applications and are not covered by this License, and convey such
 a combined library under terms of your choice, if you do both of the
 following:
a) Accompany the combined library with a copy of the same work based on the
 Library, uncombined with any other library facilities, conveyed under the
 terms of this License.
b) Give prominent notice with the combined library that part of it is a
 work based on the Library, and explaining where to find the accompanying
 uncombined form of the same work.
6. Revised Versions of the GNU Lesser General Public License.
The Free Software Foundation may publish revised and/or new versions of the
 GNU Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.
Each version is given a distinguishing version number. If the Library as you
 received it specifies that a certain numbered version of the GNU Lesser
 General Public License “or any later version” applies to it, you have
 the option of following the terms and conditions either of that published
 version or of any later version published by the Free Software Foundation.
 If the Library as you received it does not specify a version number of
 the GNU Lesser General Public License, you may choose any version of the
 GNU Lesser General Public License ever published by the Free Software
 Foundation.
If the Library as you received it specifies that a proxy can decide whether
 future versions of the GNU Lesser General Public License shall apply,
 that proxy's public statement of acceptance of any version is permanent
 authorization for you to choose that version for the Library.

-------------- Separator --------------

Dependency: com.google.code.findbugs:jsr305
License:

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:
jcip-annotations below RELICENSED to Oracle under BSD 3-clause

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

Dependency: net.java.dev.jna:jna
License: Apache 2.0,LGPL 2.1
 LGPL 2.1 -> https://www.gnu.org/licenses/old-licenses/lgpl-2.1
```

```
 Apache 2.0 -> https://www.apache.org/licenses/LICENSE-2.0.txt (mentioned
 above under License: Apache 2.0)

 ./License LGPL 2.1


 GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]
Preamble
The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.
This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.
When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.
To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.
To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.
Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
```

```
 libraries in order to permit linking those libraries into non-free
 programs.
When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.
We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.
For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.
In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.
Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.
The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".
A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)
"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.
Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.
```

```
1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:
a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that
 you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all
 third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of
 data to be supplied by an application program that uses the facility, other
 than as an argument passed when the facility is invoked, then you must make
 a good faith effort to ensure that, in the event an application does not
 supply such function or table, the facility still operates, and performs
 whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose
 that is entirely well-defined independent of the application. Therefore,
 Subsection 2d requires that any application-supplied function or table used
 by this function must be optional: if the application does not supply it,
 the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.
In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.
3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.
```

```
If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.
5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.
However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.
When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.
If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.
You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A
 suitable mechanism is one that (1) uses at run time a copy of the library
 already present on the user's computer system, rather than copying library
 functions into the executable, and (2) will operate properly with a
 modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
c) Accompany the work with a written offer, valid for at least three years,
 to give the same user the materials specified in Subsection 6a, above, for
 a charge no more than the cost of performing this distribution.
```

```
d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
e) Verify that the user has already received a copy of these materials or
 that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:
a) Accompany the combined library with a copy of the same work based on
 the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part
 of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.
9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.
10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.
11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.
If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.
```

```
It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.
12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.
13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.
Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.
14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.
NO WARRANTY
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.
16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

-------------- Separator --------------

Dependency: net.java.dev.jna:jna-platform
License: Apache 2.0,LGPL 2.1
 LGPL 2.1 -> https://www.gnu.org/licenses/old-licenses/lgpl-2.1 (mentioned
 above under ./License LGPL 2.1)
```

```
 Apache 2.0 -> https://www.apache.org/licenses/LICENSE-2.0.txt (mentioned
 above under License: Apache 2.0)

-------------- Separator --------------

https://gitlab.ow2.org/asm/asm/blob/master/LICENSE.txt

ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Ralf S. Engelschall / Component(s): mod_ssl 2.8.30-1.3.39

```
                              Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



APACHE HTTP SERVER SUBCOMPONENTS:

The Apache HTTP Server includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

For the mod_mime_magic component:

/*
 * mod_mime_magic: MIME type lookup via file magic numbers
```

```
 * Copyright (c) 1996-1997 Cisco Systems, Inc.
 *
 * This software was submitted by Cisco Systems to the Apache Group in July
 * 1997.  Future revisions and derivatives of this source code must
 * acknowledge Cisco Systems as the original contributor of this module.
 * All other licensing and usage conditions are those of the Apache Group.
 *
 * Some of this code is derived from the free version of the file command
 * originally posted to comp.sources.unix.  Copyright info for that program
 * is included below as required.
 *
 ---------------------------------------------------------------------------
 * - Copyright (c) Ian F. Darwin, 1987. Written by Ian F. Darwin.
 *
 * This software is not subject to any license of the American Telephone and
 * Telegraph Company or of the Regents of the University of California.
 *
 * Permission is granted to anyone to use this software for any purpose on
 any
 * computer system, and to alter it and redistribute it freely, subject to
 * the following restrictions:
 *
 * 1. The author is not responsible for the consequences of use of this
 * software, no matter how awful, even if they arise from flaws in it.
 *
 * 2. The origin of this software must not be misrepresented, either by
 * explicit claim or by omission.  Since few users ever read sources,
 credits
 * must appear in the documentation.
 *
 * 3. Altered versions must be plainly marked as such, and must not be
 * misrepresented as being the original software.  Since few users ever read
 * sources, credits must appear in the documentation.
 *
 * 4. This notice may not be removed or altered.
 * -------------------------------------------------------------------------
 *
 */


For the  modules\mappers\mod_imagemap.c component:

  "macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

For the  server\util_md5.c component:

/*********************************************************************
 * NCSA HTTPd Server
 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
 * Copyright  (C)  1995, Board of Trustees of the University of Illinois
 *
 *********************************************************************
 *
 * md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
 *
 *  Original Code Copyright (C) 1994, Jeff Hostetler, Spyglass, Inc.
 *  Portions of Content-MD5 code Copyright (C) 1993, 1994 by Carnegie Mellon
 *     University (see Copyright below).
 *  Portions of Content-MD5 code Copyright (C) 1991 Bell Communications
```

```
 *     Research, Inc. (Bellcore) (see Copyright below).
 *  Portions extracted from mpack, John G. Myers - jgm+@cmu.edu
 *  Content-MD5 Code contributed by Martin Hamilton (martin@net.lut.ac.uk)
 *
 */


/* these portions extracted from mpack, John G. Myers - jgm+@cmu.edu */
/* (C) Copyright 1993,1994 by Carnegie Mellon University
 * All Rights Reserved.
 *
 * Permission to use, copy, modify, distribute, and sell this software
 * and its documentation for any purpose is hereby granted without
 * fee, provided that the above copyright notice appear in all copies
 * and that both that copyright notice and this permission notice
 * appear in supporting documentation, and that the name of Carnegie
 * Mellon University not be used in advertising or publicity
 * pertaining to distribution of the software without specific,
 * written prior permission.  Carnegie Mellon University makes no
 * representations about the suitability of this software for any
 * purpose.  It is provided "as is" without express or implied
 * warranty.
 *
 * CARNEGIE MELLON UNIVERSITY DISCLAIMS ALL WARRANTIES WITH REGARD TO
 * THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 * AND FITNESS, IN NO EVENT SHALL CARNEGIE MELLON UNIVERSITY BE LIABLE
 * FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN
 * AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING
 * OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
 * SOFTWARE.
 */

/*
 * Copyright (c) 1991 Bell Communications Research, Inc. (Bellcore)
 *
 * Permission to use, copy, modify, and distribute this material
 * for any purpose and without fee is hereby granted, provided
 * that the above copyright notice and this permission notice
 * appear in all copies, and that the name of Bellcore not be
 * used in advertising or publicity pertaining to this
 * material without the specific, prior written permission
 * of an authorized representative of Bellcore.  BELLCORE
 * MAKES NO REPRESENTATIONS ABOUT THE ACCURACY OR SUITABILITY
 * OF THIS MATERIAL FOR ANY PURPOSE.  IT IS PROVIDED "AS IS",
 * WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES.
 */

For the  srclib\apr\include\apr_md5.h component:
/*
 * This is work is derived from material Copyright RSA Data Security, Inc.
 *
 * The RSA copyright statement and Licence for that original material is
 * included below. This is followed by the Apache copyright statement and
 * licence for the modifications made to that material.
 */

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
   rights reserved.

   License to copy and use this software is granted provided that it
   is identified as the "RSA Data Security, Inc. MD5 Message-Digest
   Algorithm" in all material mentioning or referencing this software
   or this function.
```

```
   License is also granted to make and use derivative works provided
   that such works are identified as "derived from the RSA Data
   Security, Inc. MD5 Message-Digest Algorithm" in all material
   mentioning or referencing the derived work.

   RSA Data Security, Inc. makes no representations concerning either
   the merchantability of this software or the suitability of this
   software for any particular purpose. It is provided "as is"
   without express or implied warranty of any kind.

   These notices must be retained in any copies of any part of this
   documentation and/or software.
 */

For the  srclib\apr\passwd\apr_md5.c component:

/*
 * This is work is derived from material Copyright RSA Data Security, Inc.
 *
 * The RSA copyright statement and Licence for that original material is
 * included below. This is followed by the Apache copyright statement and
 * licence for the modifications made to that material.
 */

/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm
 */

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
   rights reserved.

   License to copy and use this software is granted provided that it
   is identified as the "RSA Data Security, Inc. MD5 Message-Digest
   Algorithm" in all material mentioning or referencing this software
   or this function.

   License is also granted to make and use derivative works provided
   that such works are identified as "derived from the RSA Data
   Security, Inc. MD5 Message-Digest Algorithm" in all material
   mentioning or referencing the derived work.

   RSA Data Security, Inc. makes no representations concerning either
   the merchantability of this software or the suitability of this
   software for any particular purpose. It is provided "as is"
   without express or implied warranty of any kind.

   These notices must be retained in any copies of any part of this
   documentation and/or software.
 */
/*
 * The apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
 * MD5 crypt() function, which is licenced as follows:
 *
 ----------------------------------------------------------------------------
 * "THE BEER-WARE LICENSE" (Revision 42):
 * <phk@login.dknet.dk> wrote this file.  As long as you retain this notice
 you
 * can do whatever you want with this stuff. If we meet some day, and you
 think
 * this stuff is worth it, you can buy me a beer in return.  Poul-Henning
 Kamp
 *
 ----------------------------------------------------------------------------
 */
```

```
For the srclib\apr-util\crypto\apr_md4.c component:

 * This is derived from material copyright RSA Data Security, Inc.
 * Their notice is reproduced below in its entirety.
 *
 * Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
 * rights reserved.
 *
 * License to copy and use this software is granted provided that it
 * is identified as the "RSA Data Security, Inc. MD4 Message-Digest
 * Algorithm" in all material mentioning or referencing this software
 * or this function.
 *
 * License is also granted to make and use derivative works provided
 * that such works are identified as "derived from the RSA Data
 * Security, Inc. MD4 Message-Digest Algorithm" in all material
 * mentioning or referencing the derived work.
 *
 * RSA Data Security, Inc. makes no representations concerning either
 * the merchantability of this software or the suitability of this
 * software for any particular purpose. It is provided "as is"
 * without express or implied warranty of any kind.
 *
 * These notices must be retained in any copies of any part of this
 * documentation and/or software.
 */

For the srclib\apr-util\include\apr_md4.h component:

 *
 * This is derived from material copyright RSA Data Security, Inc.
 * Their notice is reproduced below in its entirety.
 *
 * Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
 * rights reserved.
 *
 * License to copy and use this software is granted provided that it
 * is identified as the "RSA Data Security, Inc. MD4 Message-Digest
 * Algorithm" in all material mentioning or referencing this software
 * or this function.
 *
 * License is also granted to make and use derivative works provided
 * that such works are identified as "derived from the RSA Data
 * Security, Inc. MD4 Message-Digest Algorithm" in all material
 * mentioning or referencing the derived work.
 *
 * RSA Data Security, Inc. makes no representations concerning either
 * the merchantability of this software or the suitability of this
 * software for any particular purpose. It is provided "as is"
 * without express or implied warranty of any kind.
 *
 * These notices must be retained in any copies of any part of this
 * documentation and/or software.
 */


For the srclib\apr-util\test\testmd4.c component:

 *
 * This is derived from material copyright RSA Data Security, Inc.
 * Their notice is reproduced below in its entirety.
 *
 * Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All
```

```
 * rights reserved.
 *
 * RSA Data Security, Inc. makes no representations concerning either
 * the merchantability of this software or the suitability of this
 * software for any particular purpose. It is provided "as is"
 * without express or implied warranty of any kind.
 *
 * These notices must be retained in any copies of any part of this
 * documentation and/or software.
 */

For the srclib\apr-util\xml\expat\conftools\install-sh component:

#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
# Copyright 1991 by the Massachusetts Institute of Technology
#
# Permission to use, copy, modify, distribute, and sell this software and
 its
# documentation for any purpose is hereby granted without fee, provided that
# the above copyright notice appear in all copies and that both that
# copyright notice and this permission notice appear in supporting
# documentation, and that the name of M.I.T. not be used in advertising or
# publicity pertaining to distribution of the software without specific,
# written prior permission.  M.I.T. makes no representations about the
# suitability of this software for any purpose.  It is provided "as is"
# without express or implied warranty.
#

For the test\zb.c component:

/*                          ZeusBench V1.01
       ===============

This program is Copyright (C) Zeus Technology Limited 1996.

This program may be used and copied freely providing this copyright notice
is not removed.

This software is provided "as is" and any express or implied waranties,
including but not limited to, the implied warranties of merchantability and
fitness for a particular purpose are disclaimed.  In no event shall
Zeus Technology Ltd. be liable for any direct, indirect, incidental,
 special,
exemplary, or consequential damaged (including, but not limited to,
procurement of substitute good or services; loss of use, data, or profits;
or business interruption) however caused and on theory of liability.
 Whether
in contract, strict liability or tort (including negligence or otherwise)
arising in any way out of the use of this software, even if advised of the
possibility of such damage.

     Written by Adam Twiss (adam@zeus.co.uk).  March 1996

Thanks to the following people for their input:
  Mike Belshe (mbelshe@netscape.com)
  Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:
```

```
Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
                               and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=====================================================================
```

Provider: Rana Ian / Component(s): ora 4.1.15

```
PyOpenSSL v18.0.0
Copyright (C) AB Strakt
Copyright (C) Jean-Paul Calderone

Apache 2.0

                            Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
```

```
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
```

```
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



-------------------------
4P Dependencies:


six>-1.5.2
COPYRIGHT and LICENSE:
Copyright (c) 2010-2013 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---
PyCA ccryptography>-2.2.1

COPYRIGHT:
Copyright (c) Individual contributors.
Note: see Authors file for specific individual contributors https://
github.com/pyca/cryptography/blob/2.4.2/AUTHORS.rst
```

```
LICENSE:

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to cryptography are
 made
under the terms of *both* these licenses.  Oracle elects the Apache 2.0
 license.

The code used in the OpenSSL locking callback and OS random engine is
 derived
from CPython, and is licensed under the terms of the PSF License Agreement.


-------
PSF:

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"),
 and
   the Individual or Organization ("Licensee") accessing and otherwise using
 Python
   2.7.12 software in source or binary form and its associated
 documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
   grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
   analyze, test, perform and/or display publicly, prepare derivative works,
   distribute, and otherwise use Python 2.7.12 alone or in any derivative
   version, provided, however, that PSF's License Agreement and PSF's notice
 of
   copyright, i.e., "Copyright © 2001-2016 Python Software Foundation; All
 Rights
   Reserved" are retained in Python 2.7.12 alone or in any derivative
 version
   prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or
   incorporates Python 2.7.12 or any part thereof, and wants to make the
   derivative work available to others as provided herein, then Licensee
 hereby
   agrees to include in any such work a brief summary of the changes made to
 Python
   2.7.12.

4. PSF is making Python 2.7.12 available to Licensee on an "AS IS" basis.
   PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED.  BY WAY
 OF
   EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY
 REPRESENTATION OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
 THE
   USE OF PYTHON 2.7.12 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.12
   FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT
 OF
   MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.12, OR ANY
 DERIVATIVE
   THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
 breach of
   its terms and conditions.
```

```
7. Nothing in this License Agreement shall be deemed to create any
 relationship
   of agency, partnership, or joint venture between PSF and Licensee.  This
 License
   Agreement does not grant permission to use PSF trademarks or trade name
 in a
   trademark sense to endorse or promote products or services of Licensee,
 or any
   third party.

8. By copying, installing or otherwise using Python 2.7.12, Licensee agrees
to be bound by the terms and conditions of this License Agreement.
```

Provider: Ray Holder / Component(s): guava-retrying 2.0.0

```
=====guava-retrying 2.0.0 (Apache 2.0) =======
==============================
===== standard apache 2.0 license text =====
URL for License - http://opensource.org/licenses/Apache-2.0

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
```

```
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
```

```
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work
```

```
To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except in compliance with the License. You may obtain a copy
 of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.

==== Notice File Text for guava-retrying========
Copyright 2012-2015 Ray Holder

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

=====4th party dependencies===========
--------- Guava 30.1.1 (Apache 2.0)=======

Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



=====================================================================

+--- 4th party: com.google.guava:failureaccess

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
```

```
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>
=====================================================================

+--- 4th party: com.google.guava:listenablefuture

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>
=====================================================================

+--- 4th party: com.google.code.findbugs:jsr305

The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:

  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:

  http://code.google.com/p/jsr-305/

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
```

```
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

   ========================================================================
+--- 4th party: jcip-annotations

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

   ========================================================================
+--- 4th party: com.google.errorprone:error_prone_annotations

Copyright 2015 The Error Prone Authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

  < Apache License Version 2.0>

=====================================================================
+--- 4th party: com.google.j2objc:j2objc-annotations

Google Inc.
Daniel Connelly

Copyright 2012 Google Inc. All Rights Reserved.

   Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>

==============================================================================

+--- 4th party: org.checkerframework:checker-qual

Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

==============================================================================

+--- 4th party: org.codehaus.mojo:animal-sniffer-annotations

The MIT License

Copyright (c) 2009 codehaus.org.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

==============================================================================
```

Provider: Ray Holder / Component(s): retrying 1.3.3

```
URL for license - http://www.apache.org/licenses/LICENSE-2.0

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
```

```
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
```

```
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

============================================================

License for "six" 4th party dependence of retrying MIT License from https://
github.com/benjaminp/six/blob/master/LICENSE

Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: React Popper authors / Component(s): react-popper 1.0.0

```
The MIT License (MIT)

Copyright (c) 2015 React Popper authors
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

==============

popper.js 1.14.1

The MIT License (MIT)

Copyright © 2016 Federico Zivolo and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the “Software”), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: React Training / Component(s): react-router 5.1.2

```
MIT License

Copyright (c) React Training 2016-2018

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
================================================================================
Fourth-party dependencies:

@babel/runtime@7.6.3 - MIT
    Home Page: https://github.com/babel/babel/tree/master/packages/babel-
runtime
    Copyright (c) 2014-present Sebastian McKenzie and other contributors
--------------------------------------------------------------------------------
regenerator-runtime@0.13.3 - MIT
    Home Page: https://github.com/facebook/regenerator/tree/master/packages/
regenerator-runtime
    Copyright (c) 2014-present, Facebook, Inc.
--------------------------------------------------------------------------------
history@4.10.1 - MIT
    Home Page: https://github.com/ReactTraining/history#readme
    Copyright (c) React Training 2016-2018
--------------------------------------------------------------------------------
loose-envify@1.4.0 - MIT
    Home Page: https://github.com/zertosh/loose-envify
    Copyright (c) 2015 Andres Suarez <zertosh@gmail.com>
--------------------------------------------------------------------------------
js-tokens@4.0.0 - MIT
    Home Page: https://github.com/lydell/js-tokens#readme
    Copyright (c) 2014, 2015, 2016, 2017, 2018 Simon Lydell
--------------------------------------------------------------------------------
resolve-pathname@3.0.0 - MIT
    Home Page: https://github.com/mjackson/resolve-pathname#readme
    Copyright (c) Michael Jackson 2016-2018
--------------------------------------------------------------------------------
tiny-invariant@1.0.6 - MIT
    Home Page: https://github.com/alexreardon/tiny-invariant#readme
    Copyright (c) 2019 Alexander Reardon
--------------------------------------------------------------------------------
tiny-warning@1.0.3 - MIT
    Home Page: https://github.com/alexreardon/tiny-warning#readme
    Copyright (c) 2019 Alexander Reardon
--------------------------------------------------------------------------------
value-equal@1.0.1 - MIT
    Home Page: https://github.com/mjackson/value-equal#readme
    Copyright (c) Michael Jackson 2016-2018
--------------------------------------------------------------------------------
hoist-non-react-statics@3.3.1 - BSD-3-Clause
    Home Page: https://github.com/mridgway/hoist-non-react-statics#readme
    Copyright (c) 2015, Yahoo! Inc. All rights reserved.
Software License Agreement (BSD License)
========================================

Copyright (c) 2015, Yahoo! Inc. All rights reserved.
----------------------------------------------------

Redistribution and use of this software in source and binary forms, with or
```

```
without modification, are permitted provided that the following conditions
 are
met:

  * Redistributions of source code must retain the above copyright notice,
 this
    list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
  * Neither the name of Yahoo! Inc. nor the names of YUI's contributors may
 be
    used to endorse or promote products derived from this software without
    specific prior written permission of Yahoo! Inc.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
react-is@16.11.0 - MIT
    Home Page: https://reactjs.org/
    Copyright (c) Facebook, Inc. and its affiliates.
--------------------------------------------------------------------------------
mini-create-react-context@0.3.2 - MIT
    Home Page: https://github.com/StringEpsilon/mini-create-react-
context#readme
    Copyright (c) 2019-present StringEpsilon <StringEpsilon@gmail.com>
Copyright (c) 2017-2019 James Kyle <me@thejameskyle.com>
--------------------------------------------------------------------------------
gud@1.0.0 - MIT
    Home Page: https://github.com/jamiebuilds/global-unique-id#readme
--------------------------------------------------------------------------------
path-to-regexp@1.8.0 - MIT
    Home Page: https://github.com/pillarjs/path-to-regexp#readme
    Copyright (c) 2014 Blake Embrey (hello@blakeembrey.com)
--------------------------------------------------------------------------------
isarray@0.0.1 - MIT
    Home Page: https://github.com/juliangruber/isarray
--------------------------------------------------------------------------------
prop-types@15.7.2 - MIT
    Home Page: https://facebook.github.io/react/
    Copyright (c) 2013-present, Facebook, Inc.
--------------------------------------------------------------------------------
object-assign@4.1.1 - MIT
    Home Page: https://github.com/sindresorhus/object-assign#readme
    Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
--------------------------------------------------------------------------------
```

Provider: Red Gate Software Ltd / Component(s): flyway-core 7.11.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is

conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications,

or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR

PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright © Red Gate Software Ltd 2010-2021

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

Provider: Red Hat / Component(s): Corosync 2.4.3-4.el7

```
From the LICENSE file in the 'corosync-2.3.3' directory of the downloaded
package http://build.clusterlabs.org/corosync/releases/corosync-2.3.3.tar.gz
--------------------------------------------------------------------------------
The following license applies to every file in this source distribution
 except
for the files git-version-gen, and gitlog-to-changelog.

The git* files, which are available under GPLv3 or later,  are only used by
 our release process to generate text file content and are not part of any
 generated binary.
--------------------------------------------------------------------------------

Copyright (c) 2002-2004 MontaVista Software, Inc.
Copyright (c) 2005-2010 Red Hat, Inc.

All rights reserved.

This software licensed under BSD license, the text of which follows:

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
- Neither the name of the MontaVista Software, Inc. nor the names of its
  contributors may be used to endorse or promote products derived from this
  software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
The corosync project uses software for release processing which generates
changelogs and version information for the software.  These programs are not
used by the generated binaries or libraries These files are git-version-gen
and gitlog-to-changelog.
--------------------------------------------------------------------------------
The license for these files is as follows:
```

```
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see <http://www.gnu.org/licenses/>.
-----------------------------------
```

Provider: Red Hat / Component(s): libguestfs 1.40.2-10.0.1.el7

```
COPYRIGHT: Copyright (C) 2009-2019 Red Hat Inc.

LICENSE: GNU LGPL v2.1 + GNU GPL v2

The library is distributed under the LGPLv2+.  The programs are
distributed under the GPLv2+.  Please see the files COPYING and
COPYING.LIB for full license information.  The examples are under a
very liberal license.


                  GNU LESSER GENERAL PUBLIC LICENSE
                        Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                             Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
```

```
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
```

```
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
```

```
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
```

```
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
```

```
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
```

```
  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
```

```
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                     END OF TERMS AND CONDITIONS



===
                    GNU GENERAL PUBLIC LICENSE
                       Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
```

```
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

                    GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.
```

```
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
```

```
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.
```

```
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                             NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.
```

```
END OF TERMS AND CONDITIONS



********************************
Modules:
********************************

align
appliance
bash
build-aux
builder
cat
common
contrib
csharp
customize
daemon
df
dib
diff
docs
edit
erlang
examples
fish
format
fuse
generator
get-kernel
gobject
golang
haskell
inspector
java
lib
logo
lua
m4
make-fs
ocaml
p2v
perl
php
po-docs
po
python
rescue
resize
ruby
sparsify
sysprep
test-data
test-tool
tests
tmp
tools
utils
v2v
website
```

Provider: Red Hat Middleware LLC / Component(s): hibernate-core 5.4.28.Final

```
Hibernate ORM - hibernate-core (org.hibernate:hibernate-core)
Copyright (c) 2008, Red Hat Middleware LLC or third-party contributors
Copyright (c) 2010, Red Hat Middleware LLC or third-party contributors
Copyright (c) 2013, Red Hat Middleware LLC or third-party contributors
Copyright (c) 2015, Red Hat Middleware LLC or third-party contributors

                   GNU LESSER GENERAL PUBLIC LICENSE
                        Version 2.1, February 1999
 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.
[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]
                            Preamble
  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.
  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.
  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.
  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.
  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.
  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.
  Most GNU software, including some libraries, is covered by the
```

```
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.
  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.
  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.
  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.
  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.
  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.
  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".
  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.
  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)
  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.
```

```
  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.
  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.
  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:
    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.
    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)
These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
```

```
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.
  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.
  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.
  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.
  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:
    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
```

```
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)
    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.
    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.
    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.
  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:
    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.
    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.
  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.
```

```
  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.
  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.
  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.
                            NO WARRANTY
  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
```

```
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
                     END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries
  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).
  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>
    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.
    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.
    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA

Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:
  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.
  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice
That's all there is to it!

*******************
antlr
License: BSD License
License: [2]
Copyright: [3]

classmate
License: Apache License Version 2.0
```

```
License: [4]
Copyright: [5]

javax.persistence-api
License: EDL 1.0 & EPL 2.0
License: [6]
Copyright: [7]

byte-buddy
License: Apache License Version 2.0
License: [4]
Copyright: [8]

dom4j
License: BSD 3-clause New License
License: [9]
Copyright: [10]

jaxb-runtime
License: Eclipse Public License Version 1.0
License: [11]
Copyright: [12]

hibernate-commons-annotations
License: LGPLv2.1
License: [13]
Copyright: [14]

javassist
License: MPL 1.1 or LGPLv2.1 or APL 2.0
License: [15]
Copyright: [16]

jandex
License: Apache License Version 2.0
License: [4]
Copyright: [17]

jboss-logging
License: Apache License Version 2.0
License: [4]
Copyright: [18]

++++++++++++++++++++++++++++++++++
++++++++++ References ++++++++++++
++++++++++++++++++++++++++++++++++

================ Start of Reference [1] ================
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
 * License: GNU Lesser General Public License (LGPL), version 2.1 or later
 * See the lgpl.txt file in the root directory or http://www.gnu.org/
licenses/lgpl-2.1.html

 */
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
 * Copyright (c) 2014, Red Hat Inc. or third-party contributors as
 * indicated by the @author tags or express copyright attribution
 * statements applied by the authors.  All third-party contributions are
 * distributed under license by Red Hat Inc.
 *
```

```
 * This copyrighted material is made available to anyone wishing to use,
 modify,

 * copy, or redistribute it subject to the terms and conditions of the GNU
 * Lesser General Public License, as published by the Free Software
 Foundation.
 *
 * This program is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 MERCHANTABILITY

 * or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU Lesser General Public
 License

 * for more details.
 *
 * You should have received a copy of the GNU Lesser General Public License
 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA  02110-1301  USA
 */
================ End of Reference [1] ================
================ Start of Reference [2] ================
[The "BSD 3-clause license"]
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holder nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
=====
MIT License for codepointat.js from https://git.io/codepointat
MIT License for fromcodepoint.js from https://git.io/vDW1m
Copyright Mathias Bynens <https://mathiasbynens.be/>
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
```

```
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================ End of Reference [2] ================
================ Start of Reference [3] ================
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
================ End of Reference [3] ================
================ Start of Reference [4] ================
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
```

```
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
================ End of Reference [4] ================
================ Start of Reference [5] ================
Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

Other developers who have contributed code are:
* Brian Langel
================ End of Reference [5] ================
================ Start of Reference [6] ================
Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
Redistributions of source code must retain the above copyright notice, this
 list
of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list
of conditions and the following disclaimer in the documentation and/or other
 materials
provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors
may be used to endorse or promote products derived from this software
 without specific
prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Eclipse Public License - v 2.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE
("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S
ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial content Distributed
 under
this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 Distributed
by that particular Contributor. A Contribution "originates" from a
 Contributor if
it was added to the Program by such Contributor itself or anyone acting on
 such Contributor's
behalf. Contributions do not include changes or additions to the Program
 that are
not Modified Works.
"Contributor" means any person or entity that Distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily
infringed by the use or sale of its Contribution alone or when combined with
 the
Program.
"Program" means the Contributions Distributed in accordance with this
 Agreement.
```

```
“Recipient” means anyone who receives the Program under this Agreement or
 any Secondary
License (as applicable), including Contributors.
“Derivative Works” shall mean any work, whether in Source Code or other
 form, that
is based on (or derived from) the Program and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
 original
work of authorship.
“Modified Works” shall mean any work in Source Code or other form that
 results from
an addition to, deletion from, or modification of the contents of the
 Program, including,
for purposes of clarity any new file in Source Code form that contains any
 contents
of the Program. Modified Works shall not include works that contain only
 declarations,
interfaces, types, classes, structures, or files of the Program solely in
 each case
in order to link to, bind by name, or subclass the Program or Modified Works
 thereof.

“Distribute” means the acts of a) distributing or b) making available in any
 manner
that enables the transfer of a copy.
“Source Code” means the form of a Program preferred for making
 modifications, including
but not limited to software source code, documentation source, and
 configuration
files.
“Secondary License” means either the GNU General Public License, Version
 2.0, or
any later versions of that license, including any exceptions or additional
 permissions
as identified by the initial Contributor.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient
a non-exclusive, worldwide, royalty-free copyright license to reproduce,
 prepare
Derivative Works of, publicly display, publicly perform, Distribute and
 sublicense
the Contribution of such Contributor, if any, and such Derivative Works.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient
a non-exclusive, worldwide, royalty-free patent license under Licensed
 Patents to
make, use, sell, offer to sell, import and otherwise transfer the
 Contribution of
such Contributor, if any, in Source Code or other form. This patent license
 shall
apply to the combination of the Contribution and the Program if, at the time
 the
Contribution is added by the Contributor, such addition of the Contribution
 causes
such combination to be covered by the Licensed Patents. The patent license
 shall
not apply to any other combinations which include the Contribution. No
 hardware per
se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its
```

```
Contributions set forth herein, no assurances are provided by any
 Contributor that
the Program does not infringe the patent or other intellectual property
 rights of
any other entity. Each Contributor disclaims any liability to Recipient for
 claims
brought by any other entity based on infringement of intellectual property
 rights
or otherwise. As a condition to exercising the rights and licenses granted
 hereunder,
each Recipient hereby assumes sole responsibility to secure any other
 intellectual
property rights needed, if any. For example, if a third party patent license
 is required
to allow Recipient to Distribute the Program, it is Recipient's
 responsibility to
acquire that license before distributing the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright
rights in its Contribution, if any, to grant the copyright license set forth
 in this
Agreement.
e) Notwithstanding the terms of any Secondary License, no Contributor makes
 additional
grants to any Recipient (other than those set forth in this Agreement) as a
 result
of such Recipient's receipt of the Program under the terms of a Secondary
 License
(if permitted under the terms of Section 3).
3. REQUIREMENTS
3.1 If a Contributor Distributes the Program in any form, then:
a) the Program must also be made available as Source Code, in accordance
 with section
3.2, and the Contributor must accompany the Program with a statement that
 the Source
Code for the Program is available under this Agreement, and informs
 Recipients how
to obtain it in a reasonable manner on or through a medium customarily used
 for software
exchange; and
b) the Contributor may Distribute the Program under a license different than
 this
Agreement, provided that such license:
i) effectively disclaims on behalf of all other Contributors all warranties
 and conditions,
express and implied, including warranties or conditions of title and non-
infringement,
and implied warranties or conditions of merchantability and fitness for a
 particular
purpose;
ii) effectively excludes on behalf of all other Contributors all liability
 for damages,
including direct, indirect, special, incidental and consequential damages,
 such as
lost profits;
iii) does not attempt to limit or alter the recipients' rights in the Source
 Code
under section 3.2; and
iv) requires any subsequent distribution of the Program by any party to be
 under
a license that satisfies the requirements of this section 3.
3.2 When the Program is Distributed as Source Code:
a) it must be made available under this Agreement, or if the Program (i) is
 combined
```

```
with other material in a separate file or files made available under a
 Secondary
License, and (ii) the initial Contributor attached to the Source Code the
 notice
described in Exhibit A of this Agreement, then the Program may be made
 available
under the terms of such Secondary Licenses, and
b) a copy of this Agreement must be included with each copy of the Program.
3.3 Contributors may not remove or alter any copyright, patent, trademark,
 attribution
notices, disclaimers of warranty, or limitations of liability ('notices')
 contained
within the Program from any copy of the Program which they Distribute,
 provided that
Contributors may add their own appropriate notices.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect
to end users, business partners and the like. While this license is intended
 to facilitate
the commercial use of the Program, the Contributor who includes the Program
 in a
commercial product offering should do so in a manner which does not create
 potential
liability for other Contributors. Therefore, if a Contributor includes the
 Program
in a commercial product offering, such Contributor ("Commercial
 Contributor") hereby
agrees to defend and indemnify every other Contributor ("Indemnified
 Contributor")
against any losses, damages and costs (collectively "Losses") arising from
 claims,
lawsuits and other legal actions brought by a third party against the
 Indemnified
Contributor to the extent caused by the acts or omissions of such Commercial
 Contributor
in connection with its distribution of the Program in a commercial product
 offering.
The obligations in this section do not apply to any claims or Losses
 relating to
any actual or alleged intellectual property infringement. In order to
 qualify, an
Indemnified Contributor must: a) promptly notify the Commercial Contributor
 in writing
of such claim, and b) allow the Commercial Contributor to control, and
 cooperate
with the Commercial Contributor in, the defense and any related settlement
 negotiations.
The Indemnified Contributor may participate in any such claim at its own
 expense.

For example, a Contributor might include the Program in a commercial product
 offering,
Product X. That Contributor is then a Commercial Contributor. If that
 Commercial
Contributor then makes performance claims, or offers warranties related to
 Product
X, those performance claims and warranties are such Commercial Contributor's
 responsibility
alone. Under this section, the Commercial Contributor would have to defend
 claims
against the other Contributors related to those performance claims and
 warranties,
```

```
and if a court requires any other Contributor to pay any damages as a
 result, the
Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY APPLICABLE
LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR
 CONDITIONS
OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY
 WARRANTIES
OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
 appropriateness
of using and distributing the Program and assumes all risks associated with
 its exercise
of rights under this Agreement, including but not limited to the risks and
 costs
of program errors, compliance with applicable laws, damage to or loss of
 data, programs
or equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY APPLICABLE
LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY
 DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING WITHOUT
LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING
IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF
 ANY RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law,
it shall not affect the validity or enforceability of the remainder of the
 terms
of this Agreement, and without further action by the parties hereto, such
 provision
shall be reformed to the minimum extent necessary to make such provision
 valid and
enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim
or counterclaim in a lawsuit) alleging that the Program itself (excluding
 combinations
of the Program with other software or hardware) infringes such Recipient's
 patent(s),
then such Recipient's rights granted under Section 2(b) shall terminate as
 of the
date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply
with any of the material terms or conditions of this Agreement and does not
 cure
such failure in a reasonable period of time after becoming aware of such
 noncompliance.
If all Recipient's rights under this Agreement terminate, Recipient agrees
 to cease
use and distribution of the Program as soon as reasonably practicable.
 However, Recipient's
```

```
obligations under this Agreement and any licenses granted by Recipient
 relating to
the Program shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order
to avoid inconsistency the Agreement is copyrighted and may only be modified
 in the
following manner. The Agreement Steward reserves the right to publish new
 versions
(including revisions) of this Agreement from time to time. No one other than
 the
Agreement Steward has the right to modify this Agreement. The Eclipse
 Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
 responsibility
to serve as the Agreement Steward to a suitable separate entity. Each new
 version
of the Agreement will be given a distinguishing version number. The Program
 (including
Contributions) may always be Distributed subject to the version of the
 Agreement
under which it was received. In addition, after a new version of the
 Agreement is
published, Contributor may elect to Distribute the Program (including its
 Contributions)
under the new version.
Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no
rights or licenses to the intellectual property of any Contributor under
 this Agreement,
whether expressly, by implication, estoppel or otherwise. All rights in the
 Program
not expressly granted under this Agreement are reserved. Nothing in this
 Agreement
is intended to be enforceable by any entity that is not a Contributor or
 Recipient.
No third-party beneficiary rights are created under this Agreement.
Exhibit A - Form of Secondary Licenses Notice
"This Source Code may also be made available under the following Secondary
 Licenses
when the conditions for such availability set forth in the Eclipse Public
 License,
v. 2.0 are satisfied: {name license(s), version(s), and exceptions or
 additional
permissions here}."
Simply including a copy of this Agreement, including this Exhibit A is not
 sufficient
to license the Source Code under Secondary Licenses.
If it is not possible or desirable to put the notice in a particular file,
 then You
may include the notice in a location (such as a LICENSE file in a relevant
 directory)
where a recipient would be likely to look for such a notice.
You may add additional accurate notices of copyright ownership.
================ End of Reference [6] ================
================ Start of Reference [7] ================
/
*******************************************************************************

 * Copyright (c) 2008 - 2013 Oracle Corporation. All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 and Eclipse Distribution License
 v. 1.0
```

```
 * which accompanies this distribution.
 * The Eclipse Public License is available at http://www.eclipse.org/legal/
epl-v10.html

 * and the Eclipse Distribution License is available at
 * http://www.eclipse.org/org/documents/edl-v10.php.
 *
 * Contributors:
 *     Linda DeMichiel - Java Persistence 2.1
 *     Linda DeMichiel - Java Persistence 2.0
 *
 ******************************************************************************/

================ End of Reference [7] ================
================ Start of Reference [8] ================
Copyright ${project.inceptionYear} - ${current.year} ${copyright.holder}
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
================ End of Reference [8] ================
================ Start of Reference [9] ================
Copyright 2001-2016 (C) MetaStuff, Ltd. and DOM4J contributors. All Rights
 Reserved.

Redistribution and use of this software and associated documentation
("Software"), with or without modification, are permitted provided
that the following conditions are met:
1. Redistributions of source code must retain copyright
   statements and notices.  Redistributions must also contain a
   copy of this document.
2. Redistributions in binary form must reproduce the
   above copyright notice, this list of conditions and the
   following disclaimer in the documentation and/or other
   materials provided with the distribution.
3. The name "DOM4J" must not be used to endorse or promote
   products derived from this Software without prior written
   permission of MetaStuff, Ltd.  For written permission,
   please contact dom4j-info@metastuff.com.
4. Products derived from this Software may not be called "DOM4J"
   nor may "DOM4J" appear in their names without prior written
   permission of MetaStuff, Ltd. DOM4J is a registered
   trademark of MetaStuff, Ltd.
5. Due credit should be given to the DOM4J Project - https://
dom4j.github.io/
THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL
METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.
================ End of Reference [9] ================
```

```
================ Start of Reference [10] ================
Copyright 2001-2016 (C) MetaStuff, Ltd. and DOM4J contributors. All Rights
 Reserved.

================ End of Reference [10] ================
================ Start of Reference [11] ================
Eclipse Public License - v 1.0 THE ACCOMPANYING PROGRAM IS PROVIDED UNDER
 THE TERMS
OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR
 DISTRIBUTION
OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.  1.
 DEFINITIONS
 "Contribution" means:  a) in the case of the initial Contributor, the
 initial code
and documentation distributed under this Agreement, and  b) in the case of
 each subsequent
Contributor:  i) changes to the Program, and  ii) additions to the Program;
 where
such changes and/or additions to the Program originate from and are
 distributed by
that particular Contributor. A Contribution 'originates' from a Contributor
 if it
was added to the Program by such Contributor itself or anyone acting on such
 Contributor's
behalf. Contributions do not include additions to the Program which: (i) are
 separate
modules of software distributed in conjunction with the Program under their
 own license
agreement, and (ii) are not derivative works of the Program.  "Contributor"
 means
any person or entity that distributes the Program.  "Licensed Patents" mean
 patent
claims licensable by a Contributor which are necessarily infringed by the
 use or
sale of its Contribution alone or when combined with the Program.  "Program"
 means
the Contributions distributed in accordance with this Agreement.
 "Recipient" means
anyone who receives the Program under this Agreement, including all
 Contributors.
 2. GRANT OF RIGHTS  a) Subject to the terms of this Agreement, each
 Contributor
hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright
 license
to reproduce, prepare derivative works of, publicly display, publicly
 perform, distribute
and sublicense the Contribution of such Contributor, if any, and such
 derivative
works, in source code and object code form.  b) Subject to the terms of this
 Agreement,
each Contributor hereby grants Recipient a non-exclusive, worldwide,
 royalty-free
patent license under Licensed Patents to make, use, sell, offer to sell,
 import and
otherwise transfer the Contribution of such Contributor, if any, in source
 code and
object code form. This patent license shall apply to the combination of the
 Contribution
and the Program if, at the time the Contribution is added by the
 Contributor, such
addition of the Contribution causes such combination to be covered by the
 Licensed
Patents. The patent license shall not apply to any other combinations which
 include
```

```
the Contribution. No hardware per se is licensed hereunder.  c) Recipient
 understands
that although each Contributor grants the licenses to its Contributions set
 forth
herein, no assurances are provided by any Contributor that the Program does
 not infringe
the patent or other intellectual property rights of any other entity. Each
 Contributor
disclaims any liability to Recipient for claims brought by any other entity
 based
on infringement of intellectual property rights or otherwise. As a condition
 to exercising
the rights and licenses granted hereunder, each Recipient hereby assumes
 sole responsibility
to secure any other intellectual property rights needed, if any. For
 example, if
a third party patent license is required to allow Recipient to distribute
 the Program,
it is Recipient's responsibility to acquire that license before distributing
 the
Program.  d) Each Contributor represents that to its knowledge it has
 sufficient
copyright rights in its Contribution, if any, to grant the copyright license
 set
forth in this Agreement.  3. REQUIREMENTS  A Contributor may choose to
 distribute
the Program in object code form under its own license agreement, provided
 that:
a) it complies with the terms and conditions of this Agreement; and  b) its
 license
agreement:  i) effectively disclaims on behalf of all Contributors all
 warranties
and conditions, express and implied, including warranties or conditions of
 title
and non-infringement, and implied warranties or conditions of
 merchantability and
fitness for a particular purpose;  ii) effectively excludes on behalf of all
 Contributors
all liability for damages, including direct, indirect, special, incidental
 and consequential
damages, such as lost profits;  iii) states that any provisions which differ
 from
this Agreement are offered by that Contributor alone and not by any other
 party;
and  iv) states that source code for the Program is available from such
 Contributor,
and informs licensees how to obtain it in a reasonable manner on or through
 a medium
customarily used for software exchange.  When the Program is made available
 in source
code form:  a) it must be made available under this Agreement; and  b) a
 copy of
this Agreement must be included with each copy of the Program.  Contributors
 may
not remove or alter any copyright notices contained within the Program.
 Each Contributor
must identify itself as the originator of its Contribution, if any, in a
 manner that
reasonably allows subsequent Recipients to identify the originator of the
 Contribution.
 4. COMMERCIAL DISTRIBUTION  Commercial distributors of software may accept
 certain
responsibilities with respect to end users, business partners and the like.
 While
```

```
this license is intended to facilitate the commercial use of the Program,
 the Contributor
who includes the Program in a commercial product offering should do so in a
 manner
which does not create potential liability for other Contributors. Therefore,
 if a
Contributor includes the Program in a commercial product offering, such
 Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every other
 Contributor
("Indemnified Contributor") against any losses, damages and costs
 (collectively "Losses")
arising from claims, lawsuits and other legal actions brought by a third
 party against
the Indemnified Contributor to the extent caused by the acts or omissions of
 such
Commercial Contributor in connection with its distribution of the Program in
 a commercial
product offering. The obligations in this section do not apply to any claims
 or Losses
relating to any actual or alleged intellectual property infringement. In
 order to
qualify, an Indemnified Contributor must: a) promptly notify the Commercial
 Contributor
in writing of such claim, and b) allow the Commercial Contributor to
 control, and
cooperate with the Commercial Contributor in, the defense and any related
 settlement
negotiations. The Indemnified Contributor may participate in any such claim
 at its
own expense.  For example, a Contributor might include the Program in a
 commercial
product offering, Product X. That Contributor is then a Commercial
 Contributor. If
that Commercial Contributor then makes performance claims, or offers
 warranties related
to Product X, those performance claims and warranties are such Commercial
 Contributor's
responsibility alone. Under this section, the Commercial Contributor would
 have to
defend claims against the other Contributors related to those performance
 claims
and warranties, and if a court requires any other Contributor to pay any
 damages
as a result, the Commercial Contributor must pay those damages.  5. NO
 WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN "AS
IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
 IMPLIED
INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-
INFRINGEMENT,
MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is
 solely responsible
for determining the appropriateness of using and distributing the Program
 and assumes
all risks associated with its exercise of rights under this Agreement ,
 including
but not limited to the risks and costs of program errors, compliance with
 applicable
laws, damage to or loss of data, programs or equipment, and unavailability
 or interruption
of operations.  6. DISCLAIMER OF LIABILITY  EXCEPT AS EXPRESSLY SET FORTH IN
 THIS
```

```
AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY
 FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING
WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
 EXERCISE
OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGES.
 7. GENERAL  If any provision of this Agreement is invalid or unenforceable
 under
applicable law, it shall not affect the validity or enforceability of the
 remainder
of the terms of this Agreement, and without further action by the parties
 hereto,
such provision shall be reformed to the minimum extent necessary to make
 such provision
valid and enforceable.  If Recipient institutes patent litigation against
 any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
 Program
itself (excluding combinations of the Program with other software or
 hardware) infringes
such Recipient's patent(s), then such Recipient's rights granted under
 Section 2(b)
shall terminate as of the date such litigation is filed.  All Recipient's
 rights
under this Agreement shall terminate if it fails to comply with any of the
 material
terms or conditions of this Agreement and does not cure such failure in a
 reasonable
period of time after becoming aware of such noncompliance. If all
 Recipient's rights
under this Agreement terminate, Recipient agrees to cease use and
 distribution of
the Program as soon as reasonably practicable. However, Recipient's
 obligations under
this Agreement and any licenses granted by Recipient relating to the Program
 shall
continue and survive.  Everyone is permitted to copy and distribute copies
 of this
Agreement, but in order to avoid inconsistency the Agreement is copyrighted
 and may
only be modified in the following manner. The Agreement Steward reserves the
 right
to publish new versions (including revisions) of this Agreement from time to
 time.
No one other than the Agreement Steward has the right to modify this
 Agreement. The
Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation
 may assign
the responsibility to serve as the Agreement Steward to a suitable separate
 entity.
Each new version of the Agreement will be given a distinguishing version
 number.
The Program (including Contributions) may always be distributed subject to
 the version
of the Agreement under which it was received. In addition, after a new
 version of
the Agreement is published, Contributor may elect to distribute the Program
 (including
```

```
its Contributions) under the new version. Except as expressly stated in
 Sections
2(a) and 2(b) above, Recipient receives no rights or licenses to the
 intellectual
property of any Contributor under this Agreement, whether expressly, by
 implication,
estoppel or otherwise. All rights in the Program not expressly granted under
 this
Agreement are reserved.  This Agreement is governed by the laws of the State
 of New
York and the intellectual property laws of the United States of America. No
 party
to this Agreement will bring a legal action under this Agreement more than
 one year
after the cause of action arose. Each party waives its rights to a jury
 trial in
any resulting litigation.
================ End of Reference [11] ================
================ Start of Reference [12] ================
All content is the property of the respective authors or their employers.
 For more
information regarding authorship of content, please consult the listed
 source code
repository logs.
================ End of Reference [12] ================
================ Start of Reference [13] ================
    GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999
 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.
[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]
       Preamble
  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.
  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.
  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.
  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.
```

```
  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.
  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.
  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.
  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.
  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.
  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.
  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.
  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.
  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.
  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.
    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".
```

```
  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.
  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)
  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.
  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.
  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.
  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.
  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:
    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.
    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)
These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
```

```
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.
  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.
  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.
  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.
  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.
  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
```

```
  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:
    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)
    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.
    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.
    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.
  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:
    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.
    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.
  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
```

```
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.
  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.
  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.
  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.
  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.
  14. If you wish to incorporate parts of the Library into other free
```

```
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.
       NO WARRANTY
  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
       END OF TERMS AND CONDITIONS
           How to Apply These Terms to Your New Libraries
  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).
  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>
    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.
    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.
    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
 USA
Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:
  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.
  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice
That's all there is to it!
================ End of Reference [13] ================
================ Start of Reference [14] ================
```

```
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
 * License: GNU Lesser General Public License (LGPL), version 2.1 or later.
 * See the lgpl.txt file in the root directory or <http://www.gnu.org/
licenses/lgpl-2.1.html>.

 */
================ End of Reference [14] ================
================ Start of Reference [15] ================
Offered under Apache 2.0, LGPL 2.1, or MPL 1.1. See above for Apache 2.0 and
 LGPL
2.1 license text.
-------------------------------------------------------------
MOZILLA PUBLIC LICENSE Version 1.1
-------------------------------------------------------------
1. Definitions. 1.0.1. "Commercial Use" means distribution or otherwise
 making the
Covered Code available to a third party. 1.1. ''Contributor'' means each
 entity that
creates or contributes to the creation of Modifications.
1.2. ''Contributor Version'' means the combination of the Original Code,
 prior Modifications
used by a Contributor, and the Modifications made by that particular
 Contributor.

1.3. ''Covered Code'' means the Original Code or Modifications or the
 combination
of the Original Code and Modifications, in each case including portions
 thereof.

1.4. ''Electronic Distribution Mechanism'' means a mechanism generally
 accepted in
the software development community for the electronic transfer of data.
1.5. ''Executable'' means Covered Code in any form other than Source Code.
1.6. ''Initial Developer'' means the individual or entity identified as the
 Initial
Developer in the Source Code notice required by Exhibit A.
1.7. ''Larger Work'' means a work which combines Covered Code or portions
 thereof
with code not governed by the terms of this License.
1.8. ''License'' means this document.
1.8.1. "Licensable" means having the right to grant, to the maximum extent
 possible,
whether at the time of the initial grant or subsequently acquired, any and
 all of
the rights conveyed herein.
1.9. ''Modifications'' means any addition to or deletion from the substance
 or structure
of either the Original Code or any previous Modifications. When Covered Code
 is released
as a series of files, a Modification is: A. Any addition to or deletion from
 the
contents of a file containing Original Code or previous Modifications. B.
 Any new
file that contains any part of the Original Code or previous Modifications.

1.10. ''Original Code'' means Source Code of computer software code which is
 described
in the Source Code notice required by Exhibit A as Original Code, and which,
 at the
time of its release under this License is not already Covered Code governed
 by this
License.
```

```
1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter
 acquired,
including without limitation,  method, process, and apparatus claims, in any
 patent
Licensable by grantor.
1.11. ''Source Code'' means the preferred form of the Covered Code for
 making modifications
to it, including all modules it contains, plus any associated interface
 definition
files, scripts used to control compilation and installation of an
 Executable, or
source code differential comparisons against either the Original Code or
 another
well known, available Covered Code of the Contributor's choice. The Source
 Code can
be in a compressed or archival form, provided the appropriate decompression
 or de-archiving
software is widely available for no charge.
1.12. "You'' (or "Your")  means an individual or a legal entity exercising
 rights
under, and complying with all of the terms of, this License or a future
 version of
this License issued under Section 6.1. For legal entities, "You'' includes
 any entity
which controls, is controlled by, or is under common control with You. For
 purposes
of this definition, "control'' means (a) the power, direct or indirect, to
 cause
the direction or management of such entity, whether by contract or
 otherwise, or
(b) ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial
ownership of such entity.
2. Source Code License.
2.1. The Initial Developer Grant.
The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive
license, subject to third party intellectual property claims:
(a)  under intellectual property rights (other than patent or trademark)
 Licensable
by Initial Developer to use, reproduce, modify, display, perform, sublicense
 and
distribute the Original Code (or portions thereof) with or without
 Modifications,
and/or as part of a Larger Work; and
(b) under Patents Claims infringed by the making, using or selling of
 Original Code,
to make, have made, use, practice, sell, and offer for sale, and/or
 otherwise dispose
of the Original Code (or portions thereof). (c) the licenses granted in this
 Section
2.1(a) and (b) are effective on the date Initial Developer first distributes
 Original
Code under the terms of this License.
(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1)
 for code
that You delete from the Original Code; 2) separate from the Original Code;
 or 3)
for infringements caused by: i) the modification of the Original Code or ii)
 the
combination of the Original Code with other software or devices.

2.2. Contributor Grant.
```

```
Subject to third party intellectual property claims, each Contributor hereby
 grants
You a world-wide, royalty-free, non-exclusive license
(a)  under intellectual property rights (other than patent or trademark)
 Licensable
by Contributor, to use, reproduce, modify, display, perform, sublicense and
 distribute
the Modifications created by such Contributor (or portions thereof) either
 on an
unmodified basis, with other Modifications, as Covered Code and/or as part
 of a Larger
Work; and
(b) under Patent Claims infringed by the making, using, or selling of
 Modifications
made by that Contributor either alone and/or in combination with its
 Contributor
Version (or portions of such combination), to make, use, sell, offer for
 sale, have
made, and/or otherwise dispose of: 1) Modifications made by that Contributor
 (or
portions thereof); and 2) the combination of  Modifications made by that
 Contributor
with its Contributor Version (or portions of such combination).
(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the
 date
Contributor first makes Commercial Use of the Covered Code.
(d)    Notwithstanding Section 2.2(b) above, no patent license is granted:
 1) for
any code that Contributor has deleted from the Contributor Version; 2)
 separate
from the Contributor Version;  3)  for infringements caused by: i) third
 party modifications
of Contributor Version or ii)  the combination of Modifications made by that
 Contributor
with other software  (except as part of the Contributor Version) or other
 devices;
or 4) under Patent Claims infringed by Covered Code in the absence of
 Modifications
made by that Contributor.
3. Distribution Obligations. 3.1. Application of License.
The Modifications which You create or to which You contribute are governed
 by the
terms of this License, including without limitation Section 2.2. The Source
 Code
version of Covered Code may be distributed only under the terms of this
 License or
a future version of this License released under Section 6.1, and You must
 include
a copy of this License with every copy of the Source Code You distribute.
 You may
not offer or impose any terms on any Source Code version that alters or
 restricts
the applicable version of this License or the recipients' rights hereunder.
 However,
You may include an additional document offering the additional rights
 described in
Section 3.5. 3.2. Availability of Source Code.
Any Modification which You create or to which You contribute must be made
 available
in Source Code form under the terms of this License either on the same media
 as an
Executable version or via an accepted Electronic Distribution Mechanism to
 anyone
```

```
to whom you made an Executable version available; and if made available via
 Electronic
Distribution Mechanism, must remain available for at least twelve (12)
 months after
the date it initially became available, or at least six (6) months after a
 subsequent
version of that particular Modification has been made available to such
 recipients.
You are responsible for ensuring that the Source Code version remains
 available even
if the Electronic Distribution Mechanism is maintained by a third party.
3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a file
 documenting
the changes You made to create that Covered Code and the date of any change.
 You
must include a prominent statement that the Modification is derived,
 directly or
indirectly, from Original Code provided by the Initial Developer and
 including the
name of the Initial Developer in (a) the Source Code, and (b) in any notice
 in an
Executable version or related documentation in which You describe the origin
 or ownership
of the Covered Code.
3.4. Intellectual Property Matters (a) Third Party Claims.
If Contributor has knowledge that a license under a third party's
 intellectual property
rights is required to exercise the rights granted by such Contributor under
 Sections
2.1 or 2.2, Contributor must include a text file with the Source Code
 distribution
titled "LEGAL'' which describes the claim and the party making the claim in
 sufficient
detail that a recipient will know whom to contact. If Contributor obtains
 such knowledge
after the Modification is made available as described in Section 3.2,
 Contributor
shall promptly modify the LEGAL file in all copies Contributor makes
 available thereafter
and shall take other steps (such as notifying appropriate mailing lists or
 newsgroups)
reasonably calculated to inform those who received the Covered Code that new
 knowledge
has been obtained. (b) Contributor APIs.
If Contributor's Modifications include an application programming interface
 and Contributor
has knowledge of patent licenses which are reasonably necessary to implement
 that
API, Contributor must also include this information in the LEGAL file.

          (c)    Representations.
Contributor represents that, except as disclosed pursuant to Section 3.4(a)
 above,
Contributor believes that Contributor's Modifications are Contributor's
 original
creation(s) and/or Contributor has sufficient rights to grant the rights
 conveyed
by this License.
3.5. Required Notices.
You must duplicate the notice in Exhibit A in each file of the Source Code.
 If it
is not possible to put such notice in a particular Source Code file due to
 its structure,
```

```
then You must include such notice in a location (such as a relevant
 directory) where
a user would be likely to look for such a notice.  If You created one or
 more Modification(s)
You may add your name as a Contributor to the notice described in Exhibit A.
  You
must also duplicate this License in any documentation for the Source Code
 where You
describe recipients' rights or ownership rights relating to Covered Code.
 You may
choose to offer, and to charge a fee for, warranty, support, indemnity or
 liability
obligations to one or more recipients of Covered Code. However, You may do
 so only
on Your own behalf, and not on behalf of the Initial Developer or any
 Contributor.
You must make it absolutely clear than any such warranty, support, indemnity
 or liability
obligation is offered by You alone, and You hereby agree to indemnify the
 Initial
Developer and every Contributor for any liability incurred by the Initial
 Developer
or such Contributor as a result of warranty, support, indemnity or liability
 terms
You offer.
3.6. Distribution of Executable Versions.
You may distribute Covered Code in Executable form only if the requirements
 of Section
3.1-3.5 have been met for that Covered Code, and if You include a notice
 stating
that the Source Code version of the Covered Code is available under the
 terms of
this License, including a description of how and where You have fulfilled
 the obligations
of Section 3.2. The notice must be conspicuously included in any notice in
 an Executable
version, related documentation or collateral in which You describe
 recipients' rights
relating to the Covered Code. You may distribute the Executable version of
 Covered
Code or ownership rights under a license of Your choice, which may contain
 terms
different from this License, provided that You are in compliance with the
 terms of
this License and that the license for the Executable version does not
 attempt to
limit or alter the recipient's rights in the Source Code version from the
 rights
set forth in this License. If You distribute the Executable version under a
 different
license You must make it absolutely clear that any terms which differ from
 this License
are offered by You alone, not by the Initial Developer or any Contributor.
 You hereby
agree to indemnify the Initial Developer and every Contributor for any
 liability
incurred by the Initial Developer or such Contributor as a result of any
 such terms
You offer.
3.7. Larger Works.
You may create a Larger Work by combining Covered Code with other code not
 governed
by the terms of this License and distribute the Larger Work as a single
 product.
```

```
In such a case, You must make sure the requirements of this License are
 fulfilled
for the Covered Code.
4. Inability to Comply Due to Statute or Regulation.
If it is impossible for You to comply with any of the terms of this License
 with
respect to some or all of the Covered Code due to statute, judicial order,
 or regulation
then You must: (a) comply with the terms of this License to the maximum
 extent possible;
and (b) describe the limitations and the code they affect. Such description
 must
be included in the LEGAL file described in Section 3.4 and must be included
 with
all distributions of the Source Code. Except to the extent prohibited by
 statute
or regulation, such description must be sufficiently detailed for a
 recipient of
ordinary skill to be able to understand it.
5. Application of this License.
This License applies to code to which the Initial Developer has attached the
 notice
in Exhibit A and to related Covered Code.
6. Versions of the License.
6.1. New Versions.
Netscape Communications Corporation (''Netscape'') may publish revised and/
or new
versions of the License from time to time. Each version will be given a
 distinguishing
version number.
6.2. Effect of New Versions.
Once Covered Code has been published under a particular version of the
 License, You
may always continue to use it under the terms of that version. You may also
 choose
to use such Covered Code under the terms of any subsequent version of the
 License
published by Netscape. No one other than Netscape has the right to modify
 the terms
applicable to Covered Code created under this License.
6.3. Derivative Works.
If You create or use a modified version of this License (which you may only
 do in
order to apply it to code which is not already Covered Code governed by this
 License),
You must (a) rename Your license so that the phrases ''Mozilla'',
 ''MOZILLAPL'',
''MOZPL'', ''Netscape'', "MPL", ''NPL'' or any confusingly similar phrase do
 not
appear in your license (except to note that your license differs from this
 License)
and (b) otherwise make it clear that Your version of the license contains
 terms which
differ from the Mozilla Public License and Netscape Public License. (Filling
 in the
name of the Initial Developer, Original Code or Contributor in the notice
 described
in Exhibit A shall not of themselves be deemed to be modifications of this
 License.)

7. DISCLAIMER OF WARRANTY.
COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS'' BASIS, WITHOUT
 WARRANTY
```

```
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION,
 WARRANTIES
THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR
 PURPOSE
OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
 COVERED
CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT,
 YOU (NOT
THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
 NECESSARY
SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
 ESSENTIAL
PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER
 EXCEPT UNDER
THIS DISCLAIMER.
8. TERMINATION.
8.1.  This License and the rights granted hereunder will terminate
 automatically
if You fail to comply with terms herein and fail to cure such breach within
 30 days
of becoming aware of the breach. All sublicenses to the Covered Code which
 are properly
granted shall survive any termination of this License. Provisions which, by
 their
nature, must remain in effect beyond the termination of this License shall
 survive.

8.2.  If You initiate litigation by asserting a patent infringement claim
 (excluding
declatory judgment actions) against Initial Developer or a Contributor (the
 Initial
Developer or Contributor against whom You file such action is referred to as
 "Participant")
 alleging that:
(a)  such Participant's Contributor Version directly or indirectly infringes
 any
patent, then any and all rights granted by such Participant to You under
 Sections
2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant
 terminate
prospectively, unless if within 60 days after receipt of notice You either:
 (i)
agree in writing to pay Participant a mutually agreeable reasonable royalty
 for Your
past and future use of Modifications made by such Participant, or (ii)
 withdraw Your
litigation claim with respect to the Contributor Version against such
 Participant.
 If within 60 days of notice, a reasonable royalty and payment arrangement
 are not
mutually agreed upon in writing by the parties or the litigation claim is
 not withdrawn,
the rights granted by Participant to You under Sections 2.1 and/or 2.2
 automatically
terminate at the expiration of the 60 day notice period specified above.
(b)  any software, hardware, or device, other than such Participant's
 Contributor
Version, directly or indirectly infringes any patent, then any rights
 granted to
You by such Participant under Sections 2.1(b) and 2.2(b) are revoked
 effective as
of the date You first made, used, sold, distributed, or had made,
 Modifications made
by that Participant.
```

```
8.3.  If You assert a patent infringement claim against Participant alleging
 that
such Participant's Contributor Version directly or indirectly infringes any
 patent
where such claim is resolved (such as by license or settlement) prior to the
 initiation
of patent infringement litigation, then the reasonable value of the licenses
 granted
by such Participant under Sections 2.1 or 2.2 shall be taken into account in
 determining
the amount or value of any payment or license.
8.4.  In the event of termination under Sections 8.1 or 8.2 above,  all end
 user
license agreements (excluding distributors and resellers) which have been
 validly
granted by You or any distributor hereunder prior to termination shall
 survive termination.

9. LIMITATION OF LIABILITY.
UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING
 NEGLIGENCE),
CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER
 CONTRIBUTOR,
OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES,
 BE LIABLE
TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL
 DAMAGES OF
ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL,
 WORK STOPPAGE,
COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
 LOSSES,
EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH
 DAMAGES. THIS
LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL
 INJURY
RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW
 PROHIBITS SUCH
LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF
 INCIDENTAL
OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO
 YOU.

10. U.S. GOVERNMENT END USERS.
The Covered Code is a ''commercial item,'' as that term is defined in 48
 C.F.R. 2.101
(Oct. 1995), consisting of ''commercial computer software'' and ''commercial
 computer
software documentation,'' as such terms are used in 48 C.F.R. 12.212 (Sept.
 1995).
Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
 (June
1995), all U.S. Government End Users acquire Covered Code with only those
 rights
set forth herein.
11. MISCELLANEOUS.
This License represents the complete agreement concerning subject matter
 hereof.
If any provision of this License is held to be unenforceable, such provision
 shall
be reformed only to the extent necessary to make it enforceable. This
 License shall
be governed by California law provisions (except to the extent applicable
 law, if
```

```
any, provides otherwise), excluding its conflict-of-law provisions. With
 respect
to disputes in which at least one party is a citizen of, or an entity
 chartered or
registered to do business in the United States of America, any litigation
 relating
to this License shall be subject to the jurisdiction of the Federal Courts
 of the
Northern District of California, with venue lying in Santa Clara County,
 California,
with the losing party responsible for costs, including without limitation,
 court
costs and reasonable attorneys' fees and expenses. The application of the
 United
Nations Convention on Contracts for the International Sale of Goods is
 expressly
excluded. Any law or regulation which provides that the language of a
 contract shall
be construed against the drafter shall not apply to this License.
12. RESPONSIBILITY FOR CLAIMS.
As between Initial Developer and the Contributors, each party is responsible
 for
claims and damages arising, directly or indirectly, out of its utilization
 of rights
under this License and You agree to work with Initial Developer and
 Contributors
to distribute such responsibility on an equitable basis. Nothing herein is
 intended
or shall be deemed to constitute any admission of liability.
13. MULTIPLE-LICENSED CODE.
Initial Developer may designate portions of the Covered Code as "Multiple-
Licensed".
 "Multiple-Licensed" means that the Initial Developer permits you to utilize
 portions
of the Covered Code under Your choice of the MPL or the alternative
 licenses, if
any, specified by the Initial Developer in the file described in Exhibit A.
EXHIBIT A -Mozilla Public License. The contents of this file are subject to
 the Mozilla
Public License Version 1.1 (the "License"); you may not use this file except
 in compliance
with the License. You may obtain a copy of the License at
http://www.mozilla.org/MPL/ Software distributed under the License is
 distributed
on an "AS IS" basis, WITHOUT WARRANTY OF
ANY KIND, either express or implied. See the License for the specific
 language governing
rights and
limitations under the License.
The Original Code is Javassist.
The Initial Developer of the Original Code is Shigeru Chiba. Portions
 created by
the Initial Developer are
  Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Contributor(s): __Bill Burke, Jason T. Greene_______________.
Alternatively, the contents of this software may be used under theterms of
 the GNU
Lesser General Public License Version 2.1 or later(the "LGPL"), or the
 Apache License
Version 2.0 (the "AL"),in which case the provisions of the LGPL or the AL
 are applicableinstead
of those above. If you wish to allow use of your version ofthis software
 only under
```

```
the terms of either the LGPL or the AL, and not to allow others touse your
 version
of this software under the terms of the MPL, indicateyour decision by
 deleting the
provisions above and replace them withthe notice and other provisions
 required by
the LGPL or the AL. If you do notdelete the provisions above, a recipient
 may use
your version of thissoftware under the terms of any one of the MPL, the LGPL
 or the
AL.
================ End of Reference [15] ================
================ Start of Reference [16] ================
Copyright (C) 1999-2020 by Shigeru Chiba, All rights reserved.
================ End of Reference [16] ================
================ Start of Reference [17] ================
/*
 * JBoss, Home of Professional Open Source.
 * Copyright 2013 Red Hat, Inc., and individual contributors
 * as indicated by the @author tags.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [17] ================
================ Start of Reference [18] ================
/*
 * JBoss, Home of Professional Open Source.
 *
 * Copyright 2011 Red Hat, Inc., and individual contributors
 * as indicated by the @author tags.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [18] ================
```

Provider: Red Hat Middleware LLC / Component(s): hibernate-core 5.4.32.Final

```
Place the following in the documentation:
“You are receiving a copy of the hibernate-core, Version: 5.4.32.Final in
 both source and object
```

```
code in the following JAR (identify the JAR___________). The terms of the
 Oracle license do NOT
apply to the hibernate-core, Version: 5.4.32.Final program; it is licensed
 under the following
license, separately from the Oracle programs you receive. If you do not wish
 to install this
program, you may (development to provide brief instruction on how not to
install___________________________).

Licenses used by packages:
LGPL 2.1 for
 - org.hibernate » hibernate-core
 - org.hibernate.common » hibernate-commons-annotations
BSD License for antlr » antlr
BSD 3-clause New License for  org.dom4j » dom4j
Apache License, Version 2.0 for
 - com.fasterxml » classmate
 - net.bytebuddy » byte-buddy
 - org.javassist » javassist  (mulitplle licenses. Oracle elects Apache 2.0)
 - org.jboss » jandex
 - org.jboss.logging » jboss-logging

================================= Copyrights =========
-------- org.hibernate » hibernate-core
-------- org.hibernate.common » hibernate-commons-annotations

Hibernate, Relational Persistence for Idiomatic Java

Copyright (c) ${year}, Red Hat Inc. or third-party contributors as
indicated by the @author tags or express copyright attribution
statements applied by the authors.  All third-party contributions are
distributed under license by Red Hat Inc.

This copyrighted material is made available to anyone wishing to use,
 modify,
copy, or redistribute it subject to the terms and conditions of the GNU
Lesser General Public License, as published by the Free Software Foundation.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
 MERCHANTABILITY
or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU Lesser General Public
 License
for more details.

You should have received a copy of the GNU Lesser General Public License
along with this distribution; if not, write to:
Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA  02110-1301  USA

--------- org.javassist » javassist
Copyright (C) 1999-2021 by Shigeru Chiba, All rights reserved.

Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
 simple. It is a class
library for editing bytecodes in Java; it enables Java programs to define a
 new class at runtime and
to modify a class file when the JVM loads it. Unlike other similar bytecode
 editors, Javassist
provides two levels of API: source level and bytecode level. If the users
 use the source- level API,
they can edit a class file without knowledge of the specifications of the
 Java bytecode. The whole
```

```
API is designed with only the vocabulary of the Java language. You can even
 specify inserted
bytecode in the form of source text; Javassist compiles it on the fly. On
 the other hand, the
bytecode-level API allows the users to directly edit a class file as other
 editors.

This software is distributed under the Mozilla Public License Version 1.1,
 the GNU Lesser General
Public License Version 2.1 or later, or the Apache License Version 2.0.
This distribution elects to license under Apache 2.0 terms.

--------- com.fasterxml » classmate
 Copyright: FasterXML,LLC

--------- net.bytebuddy » byte-buddy
Copyright 2014 - Present Rafael Winterhalter

--------- org.jboss » jandex

 JBoss, Home of Professional Open Source.
 Copyright 2013 Red Hat, Inc., and individual contributors as indicated by
 the @author tags.
 Copyright 2014 Red Hat, Inc., and individual contributors as indicated by
 the @author tags.
 Copyright 2020 Red Hat, Inc., and individual contributors as indicated by
 the @author tags.
 Copyright 2021 Red Hat, Inc., and individual contributors as indicated by
 the @author tags.


--------- org.jboss.logging » jboss-logging

JBoss, Home of Professional Open Source.
Copyright 2010 Red Hat, Inc.
Copyright 2010 Red Hat, Inc., and individual contributors
Copyright 2011 Red Hat, Inc., and individual contributors
Copyright 2013 Red Hat, Inc.
Copyright 2017 Red Hat, Inc.
Copyright 2019 Red Hat, Inc.
Copyright 2020 Red Hat, Inc.



==========================================================================
 LGPL 2.1 for
 -org.hibernate » hibernate-core
 -org.hibernate.common » hibernate-commons-annotations
 ==========================================================================================
GNU Lesser General Public License
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place,
 Suite 330, Boston, MA
02111-1307 USA Everyone is permitted to copy and distribute verbatim copies
 of this license
document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the
 successor of the GNU
Library Public License, version 2, hence the version number 2.1.]

Preamble
```

```
The licenses for most software are designed to take away your freedom to
 share and change it. By
contrast, the GNU General Public Licenses are intended to guarantee your
 freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software
packages--typically libraries--of the Free Software Foundation and other
 authors who decide to use
it. You can use it too, but we suggest you first think carefully about
 whether this license or the
ordinary General Public License is the better strategy to use in any
 particular case, based on the
explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public
Licenses are designed to make sure that you have the freedom to distribute
 copies of free software
(and charge for this service if you wish); that you receive source code or
 can get it if you want
it; that you can change the software and use pieces of it in new free
 programs; and that you are
informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these
rights or to ask you to surrender these rights. These restrictions translate
 to certain
responsibilities for you if you distribute copies of the library or if you
 modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the
recipients all the rights that we gave you. You must make sure that they,
 too, receive or can get
the source code. If you link other code with the library, you must provide
 complete object files to
the recipients, so that they can relink them with the library after making
 changes to the library
and recompiling it. And you must show them these terms so they know their
 rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you
this license, which gives you legal permission to copy, distribute and/or
 modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free
library. Also, if the library is modified by someone else and passed on, the
 recipients should know
that what they have is not the original version, so that the original
 author's reputation will not
be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to
make sure that a company cannot effectively restrict the users of a free
 program by obtaining a
restrictive license from a patent holder. Therefore, we insist that any
 patent license obtained for
```

```
a version of the library must be consistent with the full freedom of use
 specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU
 General Public License.
This license, the GNU Lesser General Public License, applies to certain
 designated libraries, and is
quite different from the ordinary General Public License. We use this
 license for certain libraries
in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a
 shared library, the
combination of the two is legally speaking a combined work, a derivative of
 the original library.
The ordinary General Public License therefore permits such linking only if
 the entire combination
fits its criteria of freedom. The Lesser General Public License permits more
 lax criteria for
linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's
freedom than the ordinary General Public License. It also provides other
 free software developers
Less of an advantage over competing non-free programs. These disadvantages
 are the reason we use the
ordinary General Public License for many libraries. However, the Lesser
 license provides advantages
in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the
 widest possible use of
a certain library, so that it becomes a de-facto standard. To achieve this,
 non-free programs must
be allowed to use the library. A more frequent case is that a free library
 does the same job as
widely used non-free libraries. In this case, there is little to gain by
 limiting the free library
to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number
of people to use a large body of free software. For example, permission to
 use the GNU C Library in
non-free programs enables many more people to use the whole GNU operating
 system, as well as its
variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure
that the user of a program that is linked with the Library has the freedom
 and the wherewithal to
run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close
attention to the difference between a "work based on the library" and a
 "work that uses the
library". The former contains code derived from the library, whereas the
 latter must be combined
with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
```

```
0. This License Agreement applies to any software library or other program
 which contains a notice
placed by the copyright holder or other authorized party saying it may be
 distributed under the
terms of this Lesser General Public License (also called "this License").
 Each licensee is addressed
as "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently
linked with application programs (which use some of those functions and
 data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under
these terms. A "work based on the Library" means either the Library or any
 derivative work under
copyright law: that is to say, a work containing the Library or a portion of
 it, either verbatim or
with modifications and/or translated straightforwardly into another
 language. (Hereinafter,
translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a
library, complete source code means all the source code for all modules it
 contains, plus any
associated interface definition files, plus the scripts used to control
 compilation and installation
of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they
are outside its scope. The act of running a program using the Library is not
 restricted, and output
from such a program is covered only if its contents constitute a work based
 on the Library
(independent of the use of the Library in a tool for writing it). Whether
 that is true depends on
what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive
it, in any medium, provided that you conspicuously and appropriately publish
 on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact all the
 notices that refer to
this License and to the absence of any warranty; and distribute a copy of
 this License along with
the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer
warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based
on the Library, and copy and distribute such modifications or work under the
 terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.
```

```
b) You must cause the files modified to carry prominent notices stating that
 you changed the files
and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all
 third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a table of
 data to be supplied by
an application program that uses the facility, other than as an argument
 passed when the facility is
invoked, then you must make a good faith effort to ensure that, in the event
 an application does not
supply such function or table, the facility still operates, and performs
 whatever part of its
purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose
 that is entirely
well-defined independent of the application. Therefore, Subsection 2d
 requires that any
application-supplied function or table used by this function must be
 optional: if the application
does not supply it, the square root function must still compute square
 roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are
not derived from the Library, and can be reasonably considered independent
 and separate works in
themselves, then this License, and its terms, do not apply to those sections
 when you distribute
them as separate works. But when you distribute the same sections as part of
 a whole which is a work
based on the Library, the distribution of the whole must be on the terms of
 this License, whose
permissions for other licensees extend to the entire whole, and thus to each
 and every part
regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written
entirely by you; rather, the intent is to exercise the right to control the
 distribution of
derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a
work based on the Library) on a volume of a storage or distribution medium
 does not bring the other
work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License
to a given copy of the Library. To do this, you must alter all the notices
 that refer to this
License, so that they refer to the ordinary GNU General Public License,
 version 2, instead of to
this License. (If a newer version than version 2 of the ordinary GNU General
 Public License has
appeared, then you can specify that version instead if you wish.) Do not
 make any other change in
these notices.
```

```
Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU
General Public License applies to all subsequent copies and derivative works
 made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is
not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in
object code or executable form under the terms of Sections 1 and 2 above
 provided that you accompany
it with the complete corresponding machine-readable source code, which must
 be distributed under the
terms of Sections 1 and 2 above on a medium customarily used for software
 interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then
offering equivalent access to copy the source code from the same place
 satisfies the requirement to
distribute the source code, even though third parties are not compelled to
 copy the source along
with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with
the Library by being compiled or linked with it, is called a "work that uses
 the Library". Such a
work, in isolation, is not a derivative work of the Library, and therefore
 falls outside the scope
of this License.

However, linking a "work that uses the Library" with the Library creates an
 executable that is a
derivative of the Library (because it contains portions of the Library),
 rather than a "work that
uses the library". The executable is therefore covered by this License.
 Section 6 states terms for
distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library,
the object code for the work may be a derivative work of the Library even
 though the source code is
not. Whether this is true is especially significant if the work can be
 linked without the Library,
or if the work is itself a library. The threshold for this to be true is not
 precisely defined by
law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and
small macros and small inline functions (ten lines or less in length), then
 the use of the object
file is unrestricted, regardless of whether it is legally a derivative work.
 (Executables containing
this object code plus portions of the Library will still fall under Section
 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the
```

```
work under the terms of Section 6. Any executables containing that work also
 fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a
 "work that uses the
Library" with the Library to produce a work containing portions of the
 Library, and distribute that
work under terms of your choice, provided that the terms permit modification
 of the work for the
customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that
the Library and its use are covered by this License. You must supply a copy
 of this License. If the
work during execution displays copyright notices, you must include the
 copyright notice for the
Library among them, as well as a reference directing the user to the copy of
 this License. Also, you
must do one of these things:

a) Accompany the work with the complete corresponding machine-readable
 source code for the Library
including whatever changes were used in the work (which must be distributed
 under Sections 1 and 2
above); and, if the work is an executable linked with the Library, with the
 complete
machine-readable "work that uses the Library", as object code and/or source
 code, so that the user
can modify the Library and then relink to produce a modified executable
 containing the modified
Library. (It is understood that the user who changes the contents of
 definitions files in the
Library will not necessarily be able to recompile the application to use the
 modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A
 suitable mechanism is one
that (1) uses at run time a copy of the library already present on the
 user's computer system,
rather than copying library functions into the executable, and (2) will
 operate properly with a
modified version of the library, if the user installs one, as long as the
 modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years,
 to give the same user
the materials specified in Subsection 6a, above, for a charge no more than
 the cost of performing
this distribution.

d) If distribution of the work is made by offering access to copy from a
 designated place, offer
equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or
 that you have already sent
this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and
```

```
utility programs needed for reproducing the executable from it. However, as
 a special exception, the
materials to be distributed need not include anything that is normally
 distributed (in either source
or binary form) with the major components (compiler, kernel, and so on) of
 the operating system on
which the executable runs, unless that component itself accompanies the
 executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary
libraries that do not normally accompany the operating system. Such a
 contradiction means you cannot
use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single
library together with other library facilities not covered by this License,
 and distribute such a
combined library, provided that the separate distribution of the work based
 on the Library and of
the other library facilities is otherwise permitted, and provided that you
 do these two things:

a) Accompany the combined library with a copy of the same work based on the
 Library, uncombined with
any other library facilities. This must be distributed under the terms of
 the Sections above.

b) Give prominent notice with the combined library of the fact that part of
 it is a work based on
the Library, and explaining where to find the accompanying uncombined form
 of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly
provided under this License. Any attempt otherwise to copy, modify,
 sublicense, link with, or
distribute the Library is void, and will automatically terminate your rights
 under this License.
However, parties who have received copies, or rights, from you under this
 License will not have
their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else
grants you permission to modify or distribute the Library or its derivative
 works. These actions are
prohibited by law if you do not accept this License. Therefore, by modifying
 or distributing the
Library (or any work based on the Library), you indicate your acceptance of
 this License to do so,
and all its terms and conditions for copying, distributing or modifying the
 Library or works based
on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient
automatically receives a license from the original licensor to copy,
 distribute, link with or modify
the Library subject to these terms and conditions. You may not impose any
 further restrictions on
the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing
```

```
compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other
reason (not limited to patent issues), conditions are imposed on you
 (whether by court order,
agreement or otherwise) that contradict the conditions of this License, they
 do not excuse you from
the conditions of this License. If you cannot distribute so as to satisfy
 simultaneously your
obligations under this License and any other pertinent obligations, then as
 a consequence you may
not distribute the Library at all. For example, if a patent license would
 not permit royalty-free
redistribution of the Library by all those who receive copies directly or
 indirectly through you,
then the only way you could satisfy both it and this License would be to
 refrain entirely from
distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance,
the balance of the section is intended to apply, and the section as a whole
 is intended to apply in
other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right
claims or to contest validity of any such claims; this section has the sole
 purpose of protecting
the integrity of the free software distribution system which is implemented
 by public license
practices. Many people have made generous contributions to the wide range of
 software distributed
through that system in reliance on consistent application of that system; it
 is up to the
author/donor to decide if he or she is willing to distribute software
 through any other system and a
licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest
of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by
patents or by copyrighted interfaces, the original copyright holder who
 places the Library under
this License may add an explicit geographical distribution limitation
 excluding those countries, so
that distribution is permitted only in or among countries not thus excluded.
 In such case, this
License incorporates the limitation as if written in the body of this
 License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General
Public License from time to time. Such new versions will be similar in
 spirit to the present
version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of
```

```
this License which applies to it and "any later version", you have the
 option of following the terms
and conditions either of that version or of any later version published by
 the Free Software
Foundation. If the Library does not specify a license version number, you
 may choose any version
ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution
conditions are incompatible with these, write to the author to ask for
 permission. For software
which is copyrighted by the Free Software Foundation, write to the Free
 Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the two
 goals of preserving the
free status of all derivatives of our free software and of promoting the
 sharing and reuse of
software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
 THE LIBRARY, TO THE
EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING
 THE COPYRIGHT HOLDERS
AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
 KIND, EITHER EXPRESSED OR
IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
 LIBRARY IS WITH YOU.
SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY
 SERVICING, REPAIR OR
CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER,
OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS
 PERMITTED ABOVE, BE LIABLE TO
YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
 DAMAGES ARISING OUT OF
THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS
 OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE
 OF THE LIBRARY TO
OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS
 BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Libraries
If you develop a new library, and you want it to be of the greatest possible
 use to the public, we
recommend making it free software that everyone can redistribute and change.
 You can do so by
permitting redistribution under these terms (or, alternatively, under the
 terms of the ordinary
General Public License).



To apply these terms, attach the following notices to the library. It is
 safest to attach them to
```

```
the start of each source file to most effectively convey the exclusion of
 warranty; and each file
should have at least the "copyright" line and a pointer to where the full
 notice is found.
```

Provider: Red Hat Middleware LLC / Component(s): hibernate-core 5.6.14.Final

```
hibernate-core


------------------------------- Top-level license --------------------------

License
========

                  GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
```

```
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
```

```
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.
```

```
    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
```

```
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
```

```
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.
```

```
  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
```

```
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                     END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
```

```
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!

------------------------------- Copyright notices --------------------------

  Copyright (c) 2001-2021 Red Hat, Inc. All Rights Reserved.
  Copyright (c) 2008, Red Hat Middleware LLC or third-party contributors
  indicated by the @author tags or express copyright attribution
  statements applied by the authors.  All third-party contributions are
  distributed under license by Red Hat Inc.

  This copyrighted material is made available to anyone wishing to use,
 modify,
  copy, or redistribute it subject to the terms and conditions of the GNU
  Lesser General Public License, as published by the Free Software
 Foundation.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
 MERCHANTABILITY
  or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU Lesser General Public
 License
  for more details.

---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY
org.javassist:javassist

== License Type
Apache 2.0; LGPL v.2.1; MPL 1.1

== Copyright Notices
Copyright (C) 1999-2021 by Shigeru Chiba, All rights reserved.


--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
net.bytebuddy:byte-buddy

== License Type
Apache 2.0

== Copyright Notices
 * Copyright 2014 - Present Rafael Winterhalter

Copyright ${project.inceptionYear} - ${current.year} ${copyright.holder}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
```

```
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY
antlr:antlr

== License Type
BSD

== Copyright Notices
Copyright (c) 2012 Terence Parr and Sam Harwell

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the author nor the names of its contributors may be used
 to endorse or promote products derived from this software without specific
 prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)----------------------------------
== NAME OF DEPENDENCY
org.jboss.logging:jboss-logging

== License Type
Apache 2.0

== Copyright Notices
/*
 * JBoss, Home of Professional Open Source.
 *
 * Copyright 2010 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
```

```
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
org.jboss:jandex

== License Type
Apache 2.0

== Copyright Notices
/*
 * JBoss, Home of Professional Open Source.
 * Copyright 2014 Red Hat, Inc., and individual contributors
 * as indicated by the @author tags.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
com.fasterxml:classmate

== License Type
Apache 2.0

== Copyright Notices
Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
org.hibernate.common:hibernate-commons-annotations

== License Type
LGPL v.2.1

== Copyright Notices
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
 * License: GNU Lesser General Public License (LGPL), version 2.1 or later.
 * See the lgpl.txt file in the root directory or <http://www.gnu.org/
licenses/lgpl-2.1.html>.
 */
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
javax.xml.bind:jaxb-api
```

```
== License Type
BSD 3 Clause


    Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights
 reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

      - Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

      - Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.

      - Neither the name of the Eclipse Foundation, Inc. nor the names of
 its
        contributors may be used to endorse or promote products derived
        from this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
    IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
 TO,
    THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
    CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

== Copyright Notices
# Notices for Eclipse Project for JAXB

This content is produced and maintained by the Eclipse Project for JAXB
 project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxb

## Trademarks

Eclipse Project for JAXB is a trademark of the Eclipse Foundation.

## Copyright

All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.

## Declared Project Licenses

This program and the accompanying materials are made available under the
 terms
of the Eclipse Distribution License v. 1.0 which is available
at http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause
```

```
## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-api

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
javax.persistence-api

== License Type
Eclipse Public Licence and Eclipse Disribution License

== Copyright Notices
/
*******************************************************************************
 * Copyright (c) 2008 - 2013 Oracle Corporation. All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 and Eclipse Distribution License
 v. 1.0
 * which accompanies this distribution.
 * The Eclipse Public License is available at http://www.eclipse.org/legal/
epl-v10.html
 * and the Eclipse Distribution License is available at
 * http://www.eclipse.org/org/documents/edl-v10.php.
 *
 * Contributors:
 *     Linda DeMichiel - Java Persistence 2.1
 *     Linda DeMichiel - Java Persistence 2.0
 *

--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
com.sun.xml.fastinfoset:FastInfoset

== License Type
Apache 2.0

== Copyright Notices
/*
 * DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
 *
```

```
 * Copyright (c) 2004-2013 Oracle and/or its affiliates. All rights
 reserved.
 *
 * Oracle licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License.  You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
--------------------------------(separator)---------------------------------
== LICENSES

== Text of license (Apache 2.0)
   Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
```

```
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
```

```
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
```

```
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

== Text of license (Eclipse Public License 1.0)
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
```

```
"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
```

```
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY
```

```
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.


== Text of license (Eclipse Distribution License 1.0)
Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



== Text of license (Mozilla Public License 1.0)
MOZILLA PUBLIC LICENSE
Version 1.1

----------------------------------------------------------------------------

1. Definitions.

      1.0.1. "Commercial Use" means distribution or otherwise making the
      Covered Code available to a third party.

      1.1. ''Contributor'' means each entity that creates or contributes to
      the creation of Modifications.

      1.2. ''Contributor Version'' means the combination of the Original
      Code, prior Modifications used by a Contributor, and the
      Modifications made by that particular Contributor.

      1.3. ''Covered Code'' means the Original Code or Modifications or the
      combination of the Original Code and Modifications, in each case
      including portions thereof.

      1.4. ''Electronic Distribution Mechanism'' means a mechanism
      generally accepted in the software development community for the
      electronic transfer of data.

      1.5. ''Executable'' means Covered Code in any form other than Source
      Code.

      1.6. ''Initial Developer'' means the individual or entity identified
      as the Initial Developer in the Source Code notice required by
      Exhibit A.

      1.7. ''Larger Work'' means a work which combines Covered Code or
      portions thereof with code not governed by the terms of this License.

      1.8. ''License'' means this document.
```

```
      1.8.1. "Licensable" means having the right to grant, to the maximum
      extent possible, whether at the time of the initial grant or
      subsequently acquired, any and all of the rights conveyed herein.

      1.9. ''Modifications'' means any addition to or deletion from the
      substance or structure of either the Original Code or any previous
      Modifications. When Covered Code is released as a series of files, a
      Modification is:

            A. Any addition to or deletion from the contents of a file
            containing Original Code or previous Modifications.

            B. Any new file that contains any part of the Original Code or
            previous Modifications.


      1.10. ''Original Code'' means Source Code of computer software code
      which is described in the Source Code notice required by Exhibit A
      as Original Code, and which, at the time of its release under this
      License is not already Covered Code governed by this License.

      1.10.1. "Patent Claims" means any patent claim(s), now owned or
      hereafter acquired, including without limitation,  method, process,
      and apparatus claims, in any patent Licensable by grantor.

      1.11. ''Source Code'' means the preferred form of the Covered Code
      for making modifications to it, including all modules it contains,
      plus any associated interface definition files, scripts used to
      control compilation and installation of an Executable, or source code
      differential comparisons against either the Original Code or another
      well known, available Covered Code of the Contributor's choice. The
      Source Code can be in a compressed or archival form, provided the
      appropriate decompression or de-archiving software is widely
      available for no charge.

      1.12. "You'' (or "Your")  means an individual or a legal entity
      exercising rights under, and complying with all of the terms of, this
      License or a future version of this License issued under Section 6.1.
      For legal entities, "You'' includes any entity which controls, is
      controlled by, or is under common control with You. For purposes of
      this definition, "control'' means (a) the power, direct or indirect,
      to cause the direction or management of such entity, whether by
      contract or otherwise, or (b) ownership of more than fifty percent
      (50%) of the outstanding shares or beneficial ownership of such
      entity.

2. Source Code License.
      2.1. The Initial Developer Grant.
      The Initial Developer hereby grants You a world-wide, royalty-free,
      non-exclusive license, subject to third party intellectual property
      claims:
            (a)  under intellectual property rights (other than patent or
            trademark) Licensable by Initial Developer to use, reproduce,
            modify, display, perform, sublicense and distribute the
            Original Code (or portions thereof) with or without
            Modifications, and/or as part of a Larger Work; and

            (b) under Patents Claims infringed by the making, using or
            selling of Original Code, to make, have made, use, practice,
            sell, and offer for sale, and/or otherwise dispose of the
            Original Code (or portions thereof).

            (c) the licenses granted in this Section 2.1(a) and (b) are
            effective on the date Initial Developer first distributes
```

```
            Original Code under the terms of this License.

            (d) Notwithstanding Section 2.1(b) above, no patent license is
            granted: 1) for code that You delete from the Original Code; 2)
            separate from the Original Code;  or 3) for infringements
            caused by: i) the modification of the Original Code or ii) the
            combination of the Original Code with other software or
            devices.


      2.2. Contributor Grant.
      Subject to third party intellectual property claims, each Contributor
      hereby grants You a world-wide, royalty-free, non-exclusive license

            (a)  under intellectual property rights (other than patent or
            trademark) Licensable by Contributor, to use, reproduce,
            modify, display, perform, sublicense and distribute the
            Modifications created by such Contributor (or portions thereof)
            either on an unmodified basis, with other Modifications, as
            Covered Code and/or as part of a Larger Work; and

            (b) under Patent Claims infringed by the making, using, or
            selling of  Modifications made by that Contributor either alone
            and/or in combination with its Contributor Version (or portions
            of such combination), to make, use, sell, offer for sale, have
            made, and/or otherwise dispose of: 1) Modifications made by
            that Contributor (or portions thereof); and 2) the combination
            of  Modifications made by that Contributor with its Contributor
            Version (or portions of such combination).

            (c) the licenses granted in Sections 2.2(a) and 2.2(b) are
            effective on the date Contributor first makes Commercial Use of
            the Covered Code.

            (d)    Notwithstanding Section 2.2(b) above, no patent license
            is granted: 1) for any code that Contributor has deleted from
            the Contributor Version; 2)  separate from the Contributor
            Version;  3)  for infringements caused by: i) third party
            modifications of Contributor Version or ii)  the combination of
            Modifications made by that Contributor with other software
            (except as part of the Contributor Version) or other devices;
            or 4) under Patent Claims infringed by Covered Code in the
            absence of Modifications made by that Contributor.


3. Distribution Obligations.

      3.1. Application of License.
      The Modifications which You create or to which You contribute are
      governed by the terms of this License, including without limitation
      Section 2.2. The Source Code version of Covered Code may be
      distributed only under the terms of this License or a future version
      of this License released under Section 6.1, and You must include a
      copy of this License with every copy of the Source Code You
      distribute. You may not offer or impose any terms on any Source Code
      version that alters or restricts the applicable version of this
      License or the recipients' rights hereunder. However, You may include
      an additional document offering the additional rights described in
      Section 3.5.

      3.2. Availability of Source Code.
      Any Modification which You create or to which You contribute must be
      made available in Source Code form under the terms of this License
      either on the same media as an Executable version or via an accepted
```

```
Electronic Distribution Mechanism to anyone to whom you made an
Executable version available; and if made available via Electronic
Distribution Mechanism, must remain available for at least twelve
(12) months after the date it initially became available, or at least
six (6) months after a subsequent version of that particular
Modification has been made available to such recipients. You are
responsible for ensuring that the Source Code version remains
available even if the Electronic Distribution Mechanism is maintained
by a third party.

3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a
file documenting the changes You made to create that Covered Code and
the date of any change. You must include a prominent statement that
the Modification is derived, directly or indirectly, from Original
Code provided by the Initial Developer and including the name of the
Initial Developer in (a) the Source Code, and (b) in any notice in an
Executable version or related documentation in which You describe the
origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

      (a) Third Party Claims.
      If Contributor has knowledge that a license under a third
      party's intellectual property rights is required to exercise
      the rights granted by such Contributor under Sections 2.1 or
      2.2, Contributor must include a text file with the Source Code
      distribution titled "LEGAL'' which describes the claim and the
      party making the claim in sufficient detail that a recipient
      will know whom to contact. If Contributor obtains such
      knowledge after the Modification is made available as described
      in Section 3.2, Contributor shall promptly modify the LEGAL
      file in all copies Contributor makes available thereafter and
      shall take other steps (such as notifying appropriate mailing
      lists or newsgroups) reasonably calculated to inform those who
      received the Covered Code that new knowledge has been obtained.

      (b) Contributor APIs.
      If Contributor's Modifications include an application
      programming interface and Contributor has knowledge of patent
      licenses which are reasonably necessary to implement that API,
      Contributor must also include this information in the LEGAL
      file.


          (c)    Representations.
      Contributor represents that, except as disclosed pursuant to
      Section 3.4(a) above, Contributor believes that Contributor's
      Modifications are Contributor's original creation(s) and/or
      Contributor has sufficient rights to grant the rights conveyed
      by this License.


3.5. Required Notices.
You must duplicate the notice in Exhibit A in each file of the Source
Code.  If it is not possible to put such notice in a particular
Source Code file due to its structure, then You must include such
notice in a location (such as a relevant directory) where a user
would be likely to look for such a notice.  If You created one or
more Modification(s) You may add your name as a Contributor to the
notice described in Exhibit A.  You must also duplicate this License
in any documentation for the Source Code where You describe
recipients' rights or ownership rights relating to Covered Code.  You
may choose to offer, and to charge a fee for, warranty, support,
```

```
      indemnity or liability obligations to one or more recipients of
      Covered Code. However, You may do so only on Your own behalf, and not
      on behalf of the Initial Developer or any Contributor. You must make
      it absolutely clear than any such warranty, support, indemnity or
      liability obligation is offered by You alone, and You hereby agree to
      indemnify the Initial Developer and every Contributor for any
      liability incurred by the Initial Developer or such Contributor as a
      result of warranty, support, indemnity or liability terms You offer.

      3.6. Distribution of Executable Versions.
      You may distribute Covered Code in Executable form only if the
      requirements of Section 3.1-3.5 have been met for that Covered Code,
      and if You include a notice stating that the Source Code version of
      the Covered Code is available under the terms of this License,
      including a description of how and where You have fulfilled the
      obligations of Section 3.2. The notice must be conspicuously included
      in any notice in an Executable version, related documentation or
      collateral in which You describe recipients' rights relating to the
      Covered Code. You may distribute the Executable version of Covered
      Code or ownership rights under a license of Your choice, which may
      contain terms different from this License, provided that You are in
      compliance with the terms of this License and that the license for
      the Executable version does not attempt to limit or alter the
      recipient's rights in the Source Code version from the rights set
      forth in this License. If You distribute the Executable version under
      a different license You must make it absolutely clear that any terms
      which differ from this License are offered by You alone, not by the
      Initial Developer or any Contributor. You hereby agree to indemnify
      the Initial Developer and every Contributor for any liability
      incurred by the Initial Developer or such Contributor as a result of
      any such terms You offer.

      3.7. Larger Works.
      You may create a Larger Work by combining Covered Code with other
      code not governed by the terms of this License and distribute the
      Larger Work as a single product. In such a case, You must make sure
      the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.
      If it is impossible for You to comply with any of the terms of this
      License with respect to some or all of the Covered Code due to
      statute, judicial order, or regulation then You must: (a) comply with
      the terms of this License to the maximum extent possible; and (b)
      describe the limitations and the code they affect. Such description
      must be included in the LEGAL file described in Section 3.4 and must
      be included with all distributions of the Source Code. Except to the
      extent prohibited by statute or regulation, such description must be
      sufficiently detailed for a recipient of ordinary skill to be able to
      understand it.
5. Application of this License.
      This License applies to code to which the Initial Developer has
      attached the notice in Exhibit A and to related Covered Code.
6. Versions of the License.
      6.1. New Versions.
      Netscape Communications Corporation (''Netscape'') may publish
      revised and/or new versions of the License from time to time. Each
      version will be given a distinguishing version number.

      6.2. Effect of New Versions.
      Once Covered Code has been published under a particular version of
      the License, You may always continue to use it under the terms of
      that version. You may also choose to use such Covered Code under the
      terms of any subsequent version of the License published by Netscape.
      No one other than Netscape has the right to modify the terms
```

```
      applicable to Covered Code created under this License.

      6.3. Derivative Works.
      If You create or use a modified version of this License (which you
      may only do in order to apply it to code which is not already Covered
      Code governed by this License), You must (a) rename Your license so
      that the phrases ''Mozilla'', ''MOZILLAPL'', ''MOZPL'', ''Netscape'',
      "MPL", ''NPL'' or any confusingly similar phrase do not appear in
      your license (except to note that your license differs from this
      License) and (b) otherwise make it clear that Your version of the
      license contains terms which differ from the Mozilla Public License
      and Netscape Public License. (Filling in the name of the Initial
      Developer, Original Code or Contributor in the notice described in
      Exhibit A shall not of themselves be deemed to be modifications of
      this License.)

7. DISCLAIMER OF WARRANTY.
      COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS'' BASIS,
      WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
      WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF
      DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
      NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
      THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE
      IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER
      CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR
      CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART
      OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER
      EXCEPT UNDER THIS DISCLAIMER.
8. TERMINATION.
      8.1.  This License and the rights granted hereunder will terminate
      automatically if You fail to comply with terms herein and fail to
      cure such breach within 30 days of becoming aware of the breach. All
      sublicenses to the Covered Code which are properly granted shall
      survive any termination of this License. Provisions which, by their
      nature, must remain in effect beyond the termination of this License
      shall survive.

      8.2.  If You initiate litigation by asserting a patent infringement
      claim (excluding declatory judgment actions) against Initial
      Developer or a Contributor (the Initial Developer or Contributor
      against whom You file such action is referred to as "Participant")
      alleging that:

      (a)  such Participant's Contributor Version directly or indirectly
      infringes any patent, then any and all rights granted by such
      Participant to You under Sections 2.1 and/or 2.2 of this License
      shall, upon 60 days notice from Participant terminate prospectively,
      unless if within 60 days after receipt of notice You either: (i)
      agree in writing to pay Participant a mutually agreeable reasonable
      royalty for Your past and future use of Modifications made by such
      Participant, or (ii) withdraw Your litigation claim with respect to
      the Contributor Version against such Participant.  If within 60 days
      of notice, a reasonable royalty and payment arrangement are not
      mutually agreed upon in writing by the parties or the litigation
      claim is not withdrawn, the rights granted by Participant to You
      under Sections 2.1 and/or 2.2 automatically terminate at the
      expiration of the 60 day notice period specified above.

      (b)  any software, hardware, or device, other than such Participant's
      Contributor Version, directly or indirectly infringes any patent,
      then any rights granted to You by such Participant under Sections
      2.1(b) and 2.2(b) are revoked effective as of the date You first
      made, used, sold, distributed, or had made, Modifications made by
      that Participant.
```

```
      8.3.  If You assert a patent infringement claim against Participant
      alleging that such Participant's Contributor Version directly or
      indirectly infringes any patent where such claim is resolved (such as
      by license or settlement) prior to the initiation of patent
      infringement litigation, then the reasonable value of the licenses
      granted by such Participant under Sections 2.1 or 2.2 shall be taken
      into account in determining the amount or value of any payment or
      license.

      8.4.  In the event of termination under Sections 8.1 or 8.2 above,
      all end user license agreements (excluding distributors and
      resellers) which have been validly granted by You or any distributor
      hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.
      UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
      (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
      INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
      COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO
      ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL
      DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR
      LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR
      ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY
      SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS
      LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR
      PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT
      APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT
      ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL
      DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.
10. U.S. GOVERNMENT END USERS.
      The Covered Code is a ''commercial item,'' as that term is defined in
      48 C.F.R. 2.101 (Oct. 1995), consisting of ''commercial computer
      software'' and ''commercial computer software documentation,'' as
      such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with
      48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June
      1995), all U.S. Government End Users acquire Covered Code with only
      those rights set forth herein.
11. MISCELLANEOUS.
      This License represents the complete agreement concerning subject
      matter hereof. If any provision of this License is held to be
      unenforceable, such provision shall be reformed only to the extent
      necessary to make it enforceable. This License shall be governed by
      California law provisions (except to the extent applicable law, if
      any, provides otherwise), excluding its conflict-of-law provisions.
      With respect to disputes in which at least one party is a citizen of,
      or an entity chartered or registered to do business in the United
      States of America, any litigation relating to this License shall be
      subject to the jurisdiction of the Federal Courts of the Northern
      District of California, with venue lying in Santa Clara County,
      California, with the losing party responsible for costs, including
      without limitation, court costs and reasonable attorneys' fees and
      expenses. The application of the United Nations Convention on
      Contracts for the International Sale of Goods is expressly excluded.
      Any law or regulation which provides that the language of a contract
      shall be construed against the drafter shall not apply to this
      License.
12. RESPONSIBILITY FOR CLAIMS.
      As between Initial Developer and the Contributors, each party is
      responsible for claims and damages arising, directly or indirectly,
      out of its utilization of rights under this License and You agree to
      work with Initial Developer and Contributors to distribute such
      responsibility on an equitable basis. Nothing herein is intended or
      shall be deemed to constitute any admission of liability.
```

```
13. MULTIPLE-LICENSED CODE.
      Initial Developer may designate portions of the Covered Code as
      "Multiple-Licensed".  "Multiple-Licensed" means that the Initial
      Developer permits you to utilize portions of the Covered Code under
      Your choice of the MPL or the alternative licenses, if any, specified
      by the Initial Developer in the file described in Exhibit A.


EXHIBIT A -Mozilla Public License.

      The contents of this file are subject to the Mozilla Public License
      Version 1.1 (the "License"); you may not use this file except in
      compliance with the License. You may obtain a copy of the License at
      http://www.mozilla.org/MPL/

      Software distributed under the License is distributed on an "AS IS"
      basis, WITHOUT WARRANTY OF
      ANY KIND, either express or implied. See the License for the specific
      language governing rights and
      limitations under the License.

      The Original Code is Javassist.

      The Initial Developer of the Original Code is Shigeru Chiba. Portions
      created by the Initial Developer are
        Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

      Contributor(s): __Bill Burke, Jason T. Greene_______________.

      Alternatively, the contents of this software may be used under the
      terms of the GNU Lesser General Public License Version 2.1 or later
      (the "LGPL"), or the Apache License Version 2.0 (the "AL"), in which
      case the provisions of the LGPL or the AL are applicable instead of
      those above. If you wish to allow use of your version of this
      software only under the terms of either the LGPL or the AL, and not
      to allow others to use your version of this software under the terms
      of the MPL, indicate your decision by deleting the provisions above
      and replace them with the notice and other provisions required by the
      LGPL or the AL. If you do not delete the provisions above, a
      recipient may use your version of this software under the terms of
      any one of the MPL, the LGPL or the AL.
```

Provider: Red Hat Middleware LLC / Component(s): hibernate-entitymanager 5.6.14.Final

```
==========================================================================
 LGPL 2.1 for org.hibernate » hibernate-entitymanager »
 ==========================================================================================
GNU Lesser General Public License
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place,
 Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and
 distribute verbatim copies of this license document, but changing it is not
 allowed.

[This is the first released version of the Lesser GPL. It also counts as the
 successor of the GNU Library Public License, version 2, hence the version
 number 2.1.]

Preamble
```

```
The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.
```

```
We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
```

```
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that
 you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all
 third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of
 data to be supplied by an application program that uses the facility, other
 than as an argument passed when the facility is invoked, then you must make
 a good faith effort to ensure that, in the event an application does not
 supply such function or table, the facility still operates, and performs
 whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose
 that is entirely well-defined independent of the application. Therefore,
 Subsection 2d requires that any application-supplied function or table used
 by this function must be optional: if the application does not supply it,
 the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
```

```
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
```

```
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A
 suitable mechanism is one that (1) uses at run time a copy of the library
 already present on the user's computer system, rather than copying library
 functions into the executable, and (2) will operate properly with a
 modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.

c) Accompany the work with a written offer, valid for at least three years,
 to give the same user the materials specified in Subsection 6a, above, for
 a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.

e) Verify that the user has already received a copy of these materials or
 that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

a) Accompany the combined library with a copy of the same work based on
 the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part
 of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
```

```
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.
```

```
Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Libraries
If you develop a new library, and you want it to be of the greatest possible
 use to the public, we recommend making it free software that everyone can
 redistribute and change. You can do so by permitting redistribution under
 these terms (or, alternatively, under the terms of the ordinary General
 Public License).



To apply these terms, attach the following notices to the library. It is
 safest to attach them to the start of each source file to most effectively
 convey the exclusion of warranty; and each file should have at least the
 "copyright" line and a pointer to where the full notice is found.

 Copyright (C)

This library is free software; you can redistribute it and/or modify it
 under the terms of the GNU Lesser General Public License as published by
 the Free Software Foundation; either version 2.1 of the License, or (at
 your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License
 for more details.
```

```
You should have received a copy of the GNU Lesser General Public License
 along with this library; if not, write to the Free Software Foundation,
 Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
 school, if any, to sign a "copyright disclaimer" for the library, if
 necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library
 `Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

--------------------------------------------------------------------------------------------
==========================================================================
 LGPL 2.1 for org.hibernate » hibernate-core »
 ==========================================================================================
GNU Lesser General Public License
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place,
 Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and
 distribute verbatim copies of this license document, but changing it is not
 allowed.

[This is the first released version of the Lesser GPL. It also counts as the
 successor of the GNU Library Public License, version 2, hence the version
 number 2.1.]

Preamble
The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
```

```
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
```

```
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that
 you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all
 third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of
 data to be supplied by an application program that uses the facility, other
 than as an argument passed when the facility is invoked, then you must make
 a good faith effort to ensure that, in the event an application does not
```

```
 supply such function or table, the facility still operates, and performs
 whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose
 that is entirely well-defined independent of the application. Therefore,
 Subsection 2d requires that any application-supplied function or table used
 by this function must be optional: if the application does not supply it,
 the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.
```

```
However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A
 suitable mechanism is one that (1) uses at run time a copy of the library
 already present on the user's computer system, rather than copying library
 functions into the executable, and (2) will operate properly with a
 modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.

c) Accompany the work with a written offer, valid for at least three years,
 to give the same user the materials specified in Subsection 6a, above, for
 a charge no more than the cost of performing this distribution.
```

```
d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.

e) Verify that the user has already received a copy of these materials or
 that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

a) Accompany the combined library with a copy of the same work based on
 the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part
 of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
```

```
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.
```

```
16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Libraries
If you develop a new library, and you want it to be of the greatest possible
 use to the public, we recommend making it free software that everyone can
 redistribute and change. You can do so by permitting redistribution under
 these terms (or, alternatively, under the terms of the ordinary General
 Public License).



To apply these terms, attach the following notices to the library. It is
 safest to attach them to the start of each source file to most effectively
 convey the exclusion of warranty; and each file should have at least the
 "copyright" line and a pointer to where the full notice is found.

 Copyright (C)

This library is free software; you can redistribute it and/or modify it
 under the terms of the GNU Lesser General Public License as published by
 the Free Software Foundation; either version 2.1 of the License, or (at
 your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License
 for more details.

You should have received a copy of the GNU Lesser General Public License
 along with this library; if not, write to the Free Software Foundation,
 Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
 school, if any, to sign a "copyright disclaimer" for the library, if
 necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library
 `Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!


------------------------------------------------------------------------------------------
==============================================================================
 BSD License for antlr » antlr »
 ==============================================================================
ANTLR 4 License
[The BSD License]
Copyright (c) 2012 Terence Parr and Sam Harwell
```

```
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of the author nor the names of its contributors may be used
 to endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------
==============================================================================
 Apache License, Version 2.0 for com.fasterxml » classmate
 »==========================================================================================
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
```

```
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
```

```
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

--------------------------------------------------------------------------------
```

```
================================================================================
 CDDL/GPLv2+CE for javax.activation » javax.activation-api »
 ===================================================================
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

1. Definitions.

    1.1. "Contributor" means each individual or entity that creates or
    contributes to the creation of Modifications.

    1.2. "Contributor Version" means the combination of the Original
    Software, prior Modifications used by a Contributor (if any), and
    the Modifications made by that particular Contributor.

    1.3. "Covered Software" means (a) the Original Software, or (b)
    Modifications, or (c) the combination of files containing Original
    Software with files containing Modifications, in each case including
    portions thereof.

    1.4. "Executable" means the Covered Software in any form other than
    Source Code.

    1.5. "Initial Developer" means the individual or entity that first
    makes Original Software available under this License.

    1.6. "Larger Work" means a work which combines Covered Software or
    portions thereof with code not governed by the terms of this License.

    1.7. "License" means this document.

    1.8. "Licensable" means having the right to grant, to the maximum
    extent possible, whether at the time of the initial grant or
    subsequently acquired, any and all of the rights conveyed herein.

    1.9. "Modifications" means the Source Code and Executable form of
    any of the following:

    A. Any file that results from an addition to, deletion from or
    modification of the contents of a file containing Original Software
    or previous Modifications;

    B. Any new file that contains any part of the Original Software or
    previous Modification; or

    C. Any new file that is contributed or otherwise made available
    under the terms of this License.

    1.10. "Original Software" means the Source Code and Executable form
    of computer software code that is originally released under this
    License.

    1.11. "Patent Claims" means any patent claim(s), now owned or
    hereafter acquired, including without limitation, method, process,
    and apparatus claims, in any patent Licensable by grantor.

    1.12. "Source Code" means (a) the common form of computer software
    code in which modifications are made and (b) associated
    documentation included in or with such code.

    1.13. "You" (or "Your") means an individual or a legal entity
    exercising rights under, and complying with all of the terms of,
    this License. For legal entities, "You" includes any entity which
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
```

```
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants.

    2.1. The Initial Developer Grant.

    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, the Initial Developer
    hereby grants You a world-wide, royalty-free, non-exclusive license:

    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Initial Developer, to use, reproduce,
    modify, display, perform, sublicense and distribute the Original
    Software (or portions thereof), with or without Modifications,
    and/or as part of a Larger Work; and

    (b) under Patent Claims infringed by the making, using or selling of
    Original Software, to make, have made, use, practice, sell, and
    offer for sale, and/or otherwise dispose of the Original Software
    (or portions thereof).

    (c) The licenses granted in Sections 2.1(a) and (b) are effective on
    the date Initial Developer first distributes or otherwise makes the
    Original Software available to a third party under the terms of this
    License.

    (d) Notwithstanding Section 2.1(b) above, no patent license is
    granted: (1) for code that You delete from the Original Software, or
    (2) for infringements caused by: (i) the modification of the
    Original Software, or (ii) the combination of the Original Software
    with other software or devices.

    2.2. Contributor Grant.

    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, each Contributor hereby
    grants You a world-wide, royalty-free, non-exclusive license:

    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Contributor to use, reproduce, modify,
    display, perform, sublicense and distribute the Modifications
    created by such Contributor (or portions thereof), either on an
    unmodified basis, with other Modifications, as Covered Software
    and/or as part of a Larger Work; and

    (b) under Patent Claims infringed by the making, using, or selling
    of Modifications made by that Contributor either alone and/or in
    combination with its Contributor Version (or portions of such
    combination), to make, use, sell, offer for sale, have made, and/or
    otherwise dispose of: (1) Modifications made by that Contributor (or
    portions thereof); and (2) the combination of Modifications made by
    that Contributor with its Contributor Version (or portions of such
    combination).

    (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
    on the date Contributor first distributes or otherwise makes the
    Modifications available to a third party.

    (d) Notwithstanding Section 2.2(b) above, no patent license is
    granted: (1) for any code that Contributor has deleted from the
    Contributor Version; (2) for infringements caused by: (i) third
```

```
    party modifications of Contributor Version, or (ii) the combination
    of Modifications made by that Contributor with other software
    (except as part of the Contributor Version) or other devices; or (3)
    under Patent Claims infringed by Covered Software in the absence of
    Modifications made by that Contributor.

3. Distribution Obligations.

    3.1. Availability of Source Code.

    Any Covered Software that You distribute or otherwise make available
    in Executable form must also be made available in Source Code form
    and that Source Code form must be distributed only under the terms
    of this License. You must include a copy of this License with every
    copy of the Source Code form of the Covered Software You distribute
    or otherwise make available. You must inform recipients of any such
    Covered Software in Executable form as to how they can obtain such
    Covered Software in Source Code form in a reasonable manner on or
    through a medium customarily used for software exchange.

    3.2. Modifications.

    The Modifications that You create or to which You contribute are
    governed by the terms of this License. You represent that You
    believe Your Modifications are Your original creation(s) and/or You
    have sufficient rights to grant the rights conveyed by this License.

    3.3. Required Notices.

    You must include a notice in each of Your Modifications that
    identifies You as the Contributor of the Modification. You may not
    remove or alter any copyright, patent or trademark notices contained
    within the Covered Software, or any notices of licensing or any
    descriptive text giving attribution to any Contributor or the
    Initial Developer.

    3.4. Application of Additional Terms.

    You may not offer or impose any terms on any Covered Software in
    Source Code form that alters or restricts the applicable version of
    this License or the recipients' rights hereunder. You may choose to
    offer, and to charge a fee for, warranty, support, indemnity or
    liability obligations to one or more recipients of Covered Software.
    However, you may do so only on Your own behalf, and not on behalf of
    the Initial Developer or any Contributor. You must make it
    absolutely clear that any such warranty, support, indemnity or
    liability obligation is offered by You alone, and You hereby agree
    to indemnify the Initial Developer and every Contributor for any
    liability incurred by the Initial Developer or such Contributor as a
    result of warranty, support, indemnity or liability terms You offer.

    3.5. Distribution of Executable Versions.

    You may distribute the Executable form of the Covered Software under
    the terms of this License or under the terms of a license of Your
    choice, which may contain terms different from this License,
    provided that You are in compliance with the terms of this License
    and that the license for the Executable form does not attempt to
    limit or alter the recipient's rights in the Source Code form from
    the rights set forth in this License. If You distribute the Covered
    Software in Executable form under a different license, You must make
    it absolutely clear that any terms which differ from this License
    are offered by You alone, not by the Initial Developer or
    Contributor. You hereby agree to indemnify the Initial Developer and
```

```
    every Contributor for any liability incurred by the Initial
    Developer or such Contributor as a result of any such terms You offer.

    3.6. Larger Works.

    You may create a Larger Work by combining Covered Software with
    other code not governed by the terms of this License and distribute
    the Larger Work as a single product. In such a case, You must make
    sure the requirements of this License are fulfilled for the Covered
    Software.

4. Versions of the License.

    4.1. New Versions.

    Oracle is the initial license steward and may publish revised and/or
    new versions of this License from time to time. Each version will be
    given a distinguishing version number. Except as provided in Section
    4.3, no one other than the license steward has the right to modify
    this License.

    4.2. Effect of New Versions.

    You may always continue to use, distribute or otherwise make the
    Covered Software available under the terms of the version of the
    License under which You originally received the Covered Software. If
    the Initial Developer includes a notice in the Original Software
    prohibiting it from being distributed or otherwise made available
    under any subsequent version of the License, You must distribute and
    make the Covered Software available under the terms of the version
    of the License under which You originally received the Covered
    Software. Otherwise, You may also choose to use, distribute or
    otherwise make the Covered Software available under the terms of any
    subsequent version of the License published by the license steward.

    4.3. Modified Versions.

    When You are an Initial Developer and You want to create a new
    license for Your Original Software, You may create and use a
    modified version of this License if You: (a) rename the license and
    remove any references to the name of the license steward (except to
    note that the license differs from this License); and (b) otherwise
    make it clear that the license contains terms which differ from this
    License.

5. DISCLAIMER OF WARRANTY.

    COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
    WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
    INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
    IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
    NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
    THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
    DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
    OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
    REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
    ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
    AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

    6.1. This License and the rights granted hereunder will terminate
    automatically if You fail to comply with terms herein and fail to
    cure such breach within 30 days of becoming aware of the breach.
```

```
    Provisions which, by their nature, must remain in effect beyond the
    termination of this License shall survive.

    6.2. If You assert a patent infringement claim (excluding
    declaratory judgment actions) against Initial Developer or a
    Contributor (the Initial Developer or Contributor against whom You
    assert such claim is referred to as "Participant") alleging that the
    Participant Software (meaning the Contributor Version where the
    Participant is a Contributor or the Original Software where the
    Participant is the Initial Developer) directly or indirectly
    infringes any patent, then any and all rights granted directly or
    indirectly to You by such Participant, the Initial Developer (if the
    Initial Developer is not the Participant) and all Contributors under
    Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
    from Participant terminate prospectively and automatically at the
    expiration of such 60 day notice period, unless if within such 60
    day period You withdraw Your claim with respect to the Participant
    Software against such Participant either unilaterally or pursuant to
    a written agreement with Participant.

    6.3. If You assert a patent infringement claim against Participant
    alleging that the Participant Software directly or indirectly
    infringes any patent where such claim is resolved (such as by
    license or settlement) prior to the initiation of patent
    infringement litigation, then the reasonable value of the licenses
    granted by such Participant under Sections 2.1 or 2.2 shall be taken
    into account in determining the amount or value of any payment or
    license.

    6.4. In the event of termination under Sections 6.1 or 6.2 above,
    all end user licenses that have been validly granted by You or any
    distributor hereunder prior to termination (excluding licenses
    granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

    UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
    (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
    INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
    COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
    TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
    CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
    LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
    FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
    LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
    POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
    APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
    PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
    LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
    LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
    AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

    The Covered Software is a "commercial item," as that term is defined
    in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
    software" (as that term is defined at 48 C.F.R. §
    252.227-7014(a)(1)) and "commercial computer software documentation"
    as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
    with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
    (June 1995), all U.S. Government End Users acquire Covered Software
    with only those rights set forth herein. This U.S. Government Rights
    clause is in lieu of, and supersedes, any other FAR, DFAR, or other
    clause or provision that addresses Government rights in computer
```

```
    software under this License.

9. MISCELLANEOUS.

    This License represents the complete agreement concerning subject
    matter hereof. If any provision of this License is held to be
    unenforceable, such provision shall be reformed only to the extent
    necessary to make it enforceable. This License shall be governed by
    the law of the jurisdiction specified in a notice contained within
    the Original Software (except to the extent applicable law, if any,
    provides otherwise), excluding such jurisdiction's conflict-of-law
    provisions. Any litigation relating to this License shall be subject
    to the jurisdiction of the courts located in the jurisdiction and
    venue specified in a notice contained within the Original Software,
    with the losing party responsible for costs, including, without
    limitation, court costs and reasonable attorneys' fees and expenses.
    The application of the United Nations Convention on Contracts for
    the International Sale of Goods is expressly excluded. Any law or
    regulation which provides that the language of a contract shall be
    construed against the drafter shall not apply to this License. You
    agree that You alone are responsible for compliance with the United
    States export administration regulations (and the export control
    laws and regulation of any other countries) when You use, distribute
    or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
    responsible for claims and damages arising, directly or indirectly,
    out of its utilization of rights under this License and You agree to
    work with Initial Developer and Contributors to distribute such
    responsibility on an equitable basis. Nothing herein is intended or
    shall be deemed to constitute any admission of liability.

----------------------------------------------------------------------

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.



  The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
```

```
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
```

```
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
```

```
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
```

```
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
```

```
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C)

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
```

```
General Public License instead of this License.

#

Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."

You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.

-------------------------------------------------------------------------------------------
==============================================================================
 Eclipse Public License - v 1.0 for  javax.persistence » javax.persistence-
api »==================================================
```

```
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
```

```
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
```

```
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
```

```
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.


---------------------------------------------------------------------------------------
==============================================================================
 Eclipse Distribution License - v 1.0 for  javax.persistence »
 javax.persistence-api »=====================================================
Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


---------------------------------------------------------------------------------------
==============================================================================
 CDDL 1.1 for  javax.xml.bind » jaxb-api »
 =====================================================
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1
```

```
1. Definitions.

    1.1. "Contributor" means each individual or entity that creates or
    contributes to the creation of Modifications.

    1.2. "Contributor Version" means the combination of the Original
    Software, prior Modifications used by a Contributor (if any), and
    the Modifications made by that particular Contributor.

    1.3. "Covered Software" means (a) the Original Software, or (b)
    Modifications, or (c) the combination of files containing Original
    Software with files containing Modifications, in each case including
    portions thereof.

    1.4. "Executable" means the Covered Software in any form other than
    Source Code.

    1.5. "Initial Developer" means the individual or entity that first
    makes Original Software available under this License.

    1.6. "Larger Work" means a work which combines Covered Software or
    portions thereof with code not governed by the terms of this License.

    1.7. "License" means this document.

    1.8. "Licensable" means having the right to grant, to the maximum
    extent possible, whether at the time of the initial grant or
    subsequently acquired, any and all of the rights conveyed herein.

    1.9. "Modifications" means the Source Code and Executable form of
    any of the following:

    A. Any file that results from an addition to, deletion from or
    modification of the contents of a file containing Original Software
    or previous Modifications;

    B. Any new file that contains any part of the Original Software or
    previous Modification; or

    C. Any new file that is contributed or otherwise made available
    under the terms of this License.

    1.10. "Original Software" means the Source Code and Executable form
    of computer software code that is originally released under this
    License.

    1.11. "Patent Claims" means any patent claim(s), now owned or
    hereafter acquired, including without limitation, method, process,
    and apparatus claims, in any patent Licensable by grantor.

    1.12. "Source Code" means (a) the common form of computer software
    code in which modifications are made and (b) associated
    documentation included in or with such code.

    1.13. "You" (or "Your") means an individual or a legal entity
    exercising rights under, and complying with all of the terms of,
    this License. For legal entities, "You" includes any entity which
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.
```

```
2. License Grants.

    2.1. The Initial Developer Grant.

    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, the Initial Developer
    hereby grants You a world-wide, royalty-free, non-exclusive license:

    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Initial Developer, to use, reproduce,
    modify, display, perform, sublicense and distribute the Original
    Software (or portions thereof), with or without Modifications,
    and/or as part of a Larger Work; and

    (b) under Patent Claims infringed by the making, using or selling of
    Original Software, to make, have made, use, practice, sell, and
    offer for sale, and/or otherwise dispose of the Original Software
    (or portions thereof).

    (c) The licenses granted in Sections 2.1(a) and (b) are effective on
    the date Initial Developer first distributes or otherwise makes the
    Original Software available to a third party under the terms of this
    License.

    (d) Notwithstanding Section 2.1(b) above, no patent license is
    granted: (1) for code that You delete from the Original Software, or
    (2) for infringements caused by: (i) the modification of the
    Original Software, or (ii) the combination of the Original Software
    with other software or devices.

    2.2. Contributor Grant.

    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, each Contributor hereby
    grants You a world-wide, royalty-free, non-exclusive license:

    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Contributor to use, reproduce, modify,
    display, perform, sublicense and distribute the Modifications
    created by such Contributor (or portions thereof), either on an
    unmodified basis, with other Modifications, as Covered Software
    and/or as part of a Larger Work; and

    (b) under Patent Claims infringed by the making, using, or selling
    of Modifications made by that Contributor either alone and/or in
    combination with its Contributor Version (or portions of such
    combination), to make, use, sell, offer for sale, have made, and/or
    otherwise dispose of: (1) Modifications made by that Contributor (or
    portions thereof); and (2) the combination of Modifications made by
    that Contributor with its Contributor Version (or portions of such
    combination).

    (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
    on the date Contributor first distributes or otherwise makes the
    Modifications available to a third party.

    (d) Notwithstanding Section 2.2(b) above, no patent license is
    granted: (1) for any code that Contributor has deleted from the
    Contributor Version; (2) for infringements caused by: (i) third
    party modifications of Contributor Version, or (ii) the combination
    of Modifications made by that Contributor with other software
    (except as part of the Contributor Version) or other devices; or (3)
    under Patent Claims infringed by Covered Software in the absence of
```

```
    Modifications made by that Contributor.

3. Distribution Obligations.

    3.1. Availability of Source Code.

    Any Covered Software that You distribute or otherwise make available
    in Executable form must also be made available in Source Code form
    and that Source Code form must be distributed only under the terms
    of this License. You must include a copy of this License with every
    copy of the Source Code form of the Covered Software You distribute
    or otherwise make available. You must inform recipients of any such
    Covered Software in Executable form as to how they can obtain such
    Covered Software in Source Code form in a reasonable manner on or
    through a medium customarily used for software exchange.

    3.2. Modifications.

    The Modifications that You create or to which You contribute are
    governed by the terms of this License. You represent that You
    believe Your Modifications are Your original creation(s) and/or You
    have sufficient rights to grant the rights conveyed by this License.

    3.3. Required Notices.

    You must include a notice in each of Your Modifications that
    identifies You as the Contributor of the Modification. You may not
    remove or alter any copyright, patent or trademark notices contained
    within the Covered Software, or any notices of licensing or any
    descriptive text giving attribution to any Contributor or the
    Initial Developer.

    3.4. Application of Additional Terms.

    You may not offer or impose any terms on any Covered Software in
    Source Code form that alters or restricts the applicable version of
    this License or the recipients' rights hereunder. You may choose to
    offer, and to charge a fee for, warranty, support, indemnity or
    liability obligations to one or more recipients of Covered Software.
    However, you may do so only on Your own behalf, and not on behalf of
    the Initial Developer or any Contributor. You must make it
    absolutely clear that any such warranty, support, indemnity or
    liability obligation is offered by You alone, and You hereby agree
    to indemnify the Initial Developer and every Contributor for any
    liability incurred by the Initial Developer or such Contributor as a
    result of warranty, support, indemnity or liability terms You offer.

    3.5. Distribution of Executable Versions.

    You may distribute the Executable form of the Covered Software under
    the terms of this License or under the terms of a license of Your
    choice, which may contain terms different from this License,
    provided that You are in compliance with the terms of this License
    and that the license for the Executable form does not attempt to
    limit or alter the recipient's rights in the Source Code form from
    the rights set forth in this License. If You distribute the Covered
    Software in Executable form under a different license, You must make
    it absolutely clear that any terms which differ from this License
    are offered by You alone, not by the Initial Developer or
    Contributor. You hereby agree to indemnify the Initial Developer and
    every Contributor for any liability incurred by the Initial
    Developer or such Contributor as a result of any such terms You offer.

    3.6. Larger Works.
```

```
    You may create a Larger Work by combining Covered Software with
    other code not governed by the terms of this License and distribute
    the Larger Work as a single product. In such a case, You must make
    sure the requirements of this License are fulfilled for the Covered
    Software.

4. Versions of the License.

    4.1. New Versions.

    Oracle is the initial license steward and may publish revised and/or
    new versions of this License from time to time. Each version will be
    given a distinguishing version number. Except as provided in Section
    4.3, no one other than the license steward has the right to modify
    this License.

    4.2. Effect of New Versions.

    You may always continue to use, distribute or otherwise make the
    Covered Software available under the terms of the version of the
    License under which You originally received the Covered Software. If
    the Initial Developer includes a notice in the Original Software
    prohibiting it from being distributed or otherwise made available
    under any subsequent version of the License, You must distribute and
    make the Covered Software available under the terms of the version
    of the License under which You originally received the Covered
    Software. Otherwise, You may also choose to use, distribute or
    otherwise make the Covered Software available under the terms of any
    subsequent version of the License published by the license steward.

    4.3. Modified Versions.

    When You are an Initial Developer and You want to create a new
    license for Your Original Software, You may create and use a
    modified version of this License if You: (a) rename the license and
    remove any references to the name of the license steward (except to
    note that the license differs from this License); and (b) otherwise
    make it clear that the license contains terms which differ from this
    License.

5. DISCLAIMER OF WARRANTY.

    COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
    WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
    INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
    IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
    NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
    THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
    DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
    OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
    REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
    ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
    AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

    6.1. This License and the rights granted hereunder will terminate
    automatically if You fail to comply with terms herein and fail to
    cure such breach within 30 days of becoming aware of the breach.
    Provisions which, by their nature, must remain in effect beyond the
    termination of this License shall survive.

    6.2. If You assert a patent infringement claim (excluding
```

```
    declaratory judgment actions) against Initial Developer or a
    Contributor (the Initial Developer or Contributor against whom You
    assert such claim is referred to as "Participant") alleging that the
    Participant Software (meaning the Contributor Version where the
    Participant is a Contributor or the Original Software where the
    Participant is the Initial Developer) directly or indirectly
    infringes any patent, then any and all rights granted directly or
    indirectly to You by such Participant, the Initial Developer (if the
    Initial Developer is not the Participant) and all Contributors under
    Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
    from Participant terminate prospectively and automatically at the
    expiration of such 60 day notice period, unless if within such 60
    day period You withdraw Your claim with respect to the Participant
    Software against such Participant either unilaterally or pursuant to
    a written agreement with Participant.

    6.3. If You assert a patent infringement claim against Participant
    alleging that the Participant Software directly or indirectly
    infringes any patent where such claim is resolved (such as by
    license or settlement) prior to the initiation of patent
    infringement litigation, then the reasonable value of the licenses
    granted by such Participant under Sections 2.1 or 2.2 shall be taken
    into account in determining the amount or value of any payment or
    license.

    6.4. In the event of termination under Sections 6.1 or 6.2 above,
    all end user licenses that have been validly granted by You or any
    distributor hereunder prior to termination (excluding licenses
    granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

    UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
    (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
    INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
    COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
    TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
    CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
    LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
    FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
    LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
    POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
    APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
    PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
    LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
    LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
    AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

    The Covered Software is a "commercial item," as that term is defined
    in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
    software" (as that term is defined at 48 C.F.R. §
    252.227-7014(a)(1)) and "commercial computer software documentation"
    as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
    with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
    (June 1995), all U.S. Government End Users acquire Covered Software
    with only those rights set forth herein. This U.S. Government Rights
    clause is in lieu of, and supersedes, any other FAR, DFAR, or other
    clause or provision that addresses Government rights in computer
    software under this License.

9. MISCELLANEOUS.
```

```
    This License represents the complete agreement concerning subject
    matter hereof. If any provision of this License is held to be
    unenforceable, such provision shall be reformed only to the extent
    necessary to make it enforceable. This License shall be governed by
    the law of the jurisdiction specified in a notice contained within
    the Original Software (except to the extent applicable law, if any,
    provides otherwise), excluding such jurisdiction's conflict-of-law
    provisions. Any litigation relating to this License shall be subject
    to the jurisdiction of the courts located in the jurisdiction and
    venue specified in a notice contained within the Original Software,
    with the losing party responsible for costs, including, without
    limitation, court costs and reasonable attorneys' fees and expenses.
    The application of the United Nations Convention on Contracts for
    the International Sale of Goods is expressly excluded. Any law or
    regulation which provides that the language of a contract shall be
    construed against the drafter shall not apply to this License. You
    agree that You alone are responsible for compliance with the United
    States export administration regulations (and the export control
    laws and regulation of any other countries) when You use, distribute
    or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
    responsible for claims and damages arising, directly or indirectly,
    out of its utilization of rights under this License and You agree to
    work with Initial Developer and Contributors to distribute such
    responsibility on an equitable basis. Nothing herein is intended or
    shall be deemed to constitute any admission of liability.

----------------------------------------------------------------------

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.



  The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.
```

```
When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.
```

```
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
```

```
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
```

```
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
```

```
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C)

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

#
```

```
Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."

You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.



------------------------------------------------------------------------------------------
==============================================================================
 GPL2 w/ CPE for  javax.xml.bind » jaxb-api »
 ====================================================

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1
```

```
1. Definitions.

    1.1. "Contributor" means each individual or entity that creates or
    contributes to the creation of Modifications.

    1.2. "Contributor Version" means the combination of the Original
    Software, prior Modifications used by a Contributor (if any), and
    the Modifications made by that particular Contributor.

    1.3. "Covered Software" means (a) the Original Software, or (b)
    Modifications, or (c) the combination of files containing Original
    Software with files containing Modifications, in each case including
    portions thereof.

    1.4. "Executable" means the Covered Software in any form other than
    Source Code.

    1.5. "Initial Developer" means the individual or entity that first
    makes Original Software available under this License.

    1.6. "Larger Work" means a work which combines Covered Software or
    portions thereof with code not governed by the terms of this License.

    1.7. "License" means this document.

    1.8. "Licensable" means having the right to grant, to the maximum
    extent possible, whether at the time of the initial grant or
    subsequently acquired, any and all of the rights conveyed herein.

    1.9. "Modifications" means the Source Code and Executable form of
    any of the following:

    A. Any file that results from an addition to, deletion from or
    modification of the contents of a file containing Original Software
    or previous Modifications;

    B. Any new file that contains any part of the Original Software or
    previous Modification; or

    C. Any new file that is contributed or otherwise made available
    under the terms of this License.

    1.10. "Original Software" means the Source Code and Executable form
    of computer software code that is originally released under this
    License.

    1.11. "Patent Claims" means any patent claim(s), now owned or
    hereafter acquired, including without limitation, method, process,
    and apparatus claims, in any patent Licensable by grantor.

    1.12. "Source Code" means (a) the common form of computer software
    code in which modifications are made and (b) associated
    documentation included in or with such code.

    1.13. "You" (or "Your") means an individual or a legal entity
    exercising rights under, and complying with all of the terms of,
    this License. For legal entities, "You" includes any entity which
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.
```

```
2. License Grants.

    2.1. The Initial Developer Grant.

    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, the Initial Developer
    hereby grants You a world-wide, royalty-free, non-exclusive license:

    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Initial Developer, to use, reproduce,
    modify, display, perform, sublicense and distribute the Original
    Software (or portions thereof), with or without Modifications,
    and/or as part of a Larger Work; and

    (b) under Patent Claims infringed by the making, using or selling of
    Original Software, to make, have made, use, practice, sell, and
    offer for sale, and/or otherwise dispose of the Original Software
    (or portions thereof).

    (c) The licenses granted in Sections 2.1(a) and (b) are effective on
    the date Initial Developer first distributes or otherwise makes the
    Original Software available to a third party under the terms of this
    License.

    (d) Notwithstanding Section 2.1(b) above, no patent license is
    granted: (1) for code that You delete from the Original Software, or
    (2) for infringements caused by: (i) the modification of the
    Original Software, or (ii) the combination of the Original Software
    with other software or devices.

    2.2. Contributor Grant.

    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, each Contributor hereby
    grants You a world-wide, royalty-free, non-exclusive license:

    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Contributor to use, reproduce, modify,
    display, perform, sublicense and distribute the Modifications
    created by such Contributor (or portions thereof), either on an
    unmodified basis, with other Modifications, as Covered Software
    and/or as part of a Larger Work; and

    (b) under Patent Claims infringed by the making, using, or selling
    of Modifications made by that Contributor either alone and/or in
    combination with its Contributor Version (or portions of such
    combination), to make, use, sell, offer for sale, have made, and/or
    otherwise dispose of: (1) Modifications made by that Contributor (or
    portions thereof); and (2) the combination of Modifications made by
    that Contributor with its Contributor Version (or portions of such
    combination).

    (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
    on the date Contributor first distributes or otherwise makes the
    Modifications available to a third party.

    (d) Notwithstanding Section 2.2(b) above, no patent license is
    granted: (1) for any code that Contributor has deleted from the
    Contributor Version; (2) for infringements caused by: (i) third
    party modifications of Contributor Version, or (ii) the combination
    of Modifications made by that Contributor with other software
    (except as part of the Contributor Version) or other devices; or (3)
    under Patent Claims infringed by Covered Software in the absence of
```

```
    Modifications made by that Contributor.

3. Distribution Obligations.

    3.1. Availability of Source Code.

    Any Covered Software that You distribute or otherwise make available
    in Executable form must also be made available in Source Code form
    and that Source Code form must be distributed only under the terms
    of this License. You must include a copy of this License with every
    copy of the Source Code form of the Covered Software You distribute
    or otherwise make available. You must inform recipients of any such
    Covered Software in Executable form as to how they can obtain such
    Covered Software in Source Code form in a reasonable manner on or
    through a medium customarily used for software exchange.

    3.2. Modifications.

    The Modifications that You create or to which You contribute are
    governed by the terms of this License. You represent that You
    believe Your Modifications are Your original creation(s) and/or You
    have sufficient rights to grant the rights conveyed by this License.

    3.3. Required Notices.

    You must include a notice in each of Your Modifications that
    identifies You as the Contributor of the Modification. You may not
    remove or alter any copyright, patent or trademark notices contained
    within the Covered Software, or any notices of licensing or any
    descriptive text giving attribution to any Contributor or the
    Initial Developer.

    3.4. Application of Additional Terms.

    You may not offer or impose any terms on any Covered Software in
    Source Code form that alters or restricts the applicable version of
    this License or the recipients' rights hereunder. You may choose to
    offer, and to charge a fee for, warranty, support, indemnity or
    liability obligations to one or more recipients of Covered Software.
    However, you may do so only on Your own behalf, and not on behalf of
    the Initial Developer or any Contributor. You must make it
    absolutely clear that any such warranty, support, indemnity or
    liability obligation is offered by You alone, and You hereby agree
    to indemnify the Initial Developer and every Contributor for any
    liability incurred by the Initial Developer or such Contributor as a
    result of warranty, support, indemnity or liability terms You offer.

    3.5. Distribution of Executable Versions.

    You may distribute the Executable form of the Covered Software under
    the terms of this License or under the terms of a license of Your
    choice, which may contain terms different from this License,
    provided that You are in compliance with the terms of this License
    and that the license for the Executable form does not attempt to
    limit or alter the recipient's rights in the Source Code form from
    the rights set forth in this License. If You distribute the Covered
    Software in Executable form under a different license, You must make
    it absolutely clear that any terms which differ from this License
    are offered by You alone, not by the Initial Developer or
    Contributor. You hereby agree to indemnify the Initial Developer and
    every Contributor for any liability incurred by the Initial
    Developer or such Contributor as a result of any such terms You offer.

    3.6. Larger Works.
```

```
    You may create a Larger Work by combining Covered Software with
    other code not governed by the terms of this License and distribute
    the Larger Work as a single product. In such a case, You must make
    sure the requirements of this License are fulfilled for the Covered
    Software.

4. Versions of the License.

    4.1. New Versions.

    Oracle is the initial license steward and may publish revised and/or
    new versions of this License from time to time. Each version will be
    given a distinguishing version number. Except as provided in Section
    4.3, no one other than the license steward has the right to modify
    this License.

    4.2. Effect of New Versions.

    You may always continue to use, distribute or otherwise make the
    Covered Software available under the terms of the version of the
    License under which You originally received the Covered Software. If
    the Initial Developer includes a notice in the Original Software
    prohibiting it from being distributed or otherwise made available
    under any subsequent version of the License, You must distribute and
    make the Covered Software available under the terms of the version
    of the License under which You originally received the Covered
    Software. Otherwise, You may also choose to use, distribute or
    otherwise make the Covered Software available under the terms of any
    subsequent version of the License published by the license steward.

    4.3. Modified Versions.

    When You are an Initial Developer and You want to create a new
    license for Your Original Software, You may create and use a
    modified version of this License if You: (a) rename the license and
    remove any references to the name of the license steward (except to
    note that the license differs from this License); and (b) otherwise
    make it clear that the license contains terms which differ from this
    License.

5. DISCLAIMER OF WARRANTY.

    COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
    WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
    INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
    IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
    NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
    THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
    DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
    OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
    REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
    ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
    AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

    6.1. This License and the rights granted hereunder will terminate
    automatically if You fail to comply with terms herein and fail to
    cure such breach within 30 days of becoming aware of the breach.
    Provisions which, by their nature, must remain in effect beyond the
    termination of this License shall survive.

    6.2. If You assert a patent infringement claim (excluding
```

```
    declaratory judgment actions) against Initial Developer or a
    Contributor (the Initial Developer or Contributor against whom You
    assert such claim is referred to as "Participant") alleging that the
    Participant Software (meaning the Contributor Version where the
    Participant is a Contributor or the Original Software where the
    Participant is the Initial Developer) directly or indirectly
    infringes any patent, then any and all rights granted directly or
    indirectly to You by such Participant, the Initial Developer (if the
    Initial Developer is not the Participant) and all Contributors under
    Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
    from Participant terminate prospectively and automatically at the
    expiration of such 60 day notice period, unless if within such 60
    day period You withdraw Your claim with respect to the Participant
    Software against such Participant either unilaterally or pursuant to
    a written agreement with Participant.

    6.3. If You assert a patent infringement claim against Participant
    alleging that the Participant Software directly or indirectly
    infringes any patent where such claim is resolved (such as by
    license or settlement) prior to the initiation of patent
    infringement litigation, then the reasonable value of the licenses
    granted by such Participant under Sections 2.1 or 2.2 shall be taken
    into account in determining the amount or value of any payment or
    license.

    6.4. In the event of termination under Sections 6.1 or 6.2 above,
    all end user licenses that have been validly granted by You or any
    distributor hereunder prior to termination (excluding licenses
    granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

    UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
    (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
    INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
    COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
    TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
    CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
    LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
    FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
    LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
    POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
    APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
    PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
    LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
    LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
    AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

    The Covered Software is a "commercial item," as that term is defined
    in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
    software" (as that term is defined at 48 C.F.R. §
    252.227-7014(a)(1)) and "commercial computer software documentation"
    as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
    with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
    (June 1995), all U.S. Government End Users acquire Covered Software
    with only those rights set forth herein. This U.S. Government Rights
    clause is in lieu of, and supersedes, any other FAR, DFAR, or other
    clause or provision that addresses Government rights in computer
    software under this License.

9. MISCELLANEOUS.
```

```
    This License represents the complete agreement concerning subject
    matter hereof. If any provision of this License is held to be
    unenforceable, such provision shall be reformed only to the extent
    necessary to make it enforceable. This License shall be governed by
    the law of the jurisdiction specified in a notice contained within
    the Original Software (except to the extent applicable law, if any,
    provides otherwise), excluding such jurisdiction's conflict-of-law
    provisions. Any litigation relating to this License shall be subject
    to the jurisdiction of the courts located in the jurisdiction and
    venue specified in a notice contained within the Original Software,
    with the losing party responsible for costs, including, without
    limitation, court costs and reasonable attorneys' fees and expenses.
    The application of the United Nations Convention on Contracts for
    the International Sale of Goods is expressly excluded. Any law or
    regulation which provides that the language of a contract shall be
    construed against the drafter shall not apply to this License. You
    agree that You alone are responsible for compliance with the United
    States export administration regulations (and the export control
    laws and regulation of any other countries) when You use, distribute
    or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
    responsible for claims and damages arising, directly or indirectly,
    out of its utilization of rights under this License and You agree to
    work with Initial Developer and Contributors to distribute such
    responsibility on an equitable basis. Nothing herein is intended or
    shall be deemed to constitute any admission of liability.

----------------------------------------------------------------------

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.



  The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.
```

```
When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.
```

```
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
```

```
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
```

```
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
```

```
How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C)

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

#
```

```
Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."

You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.

-------------------------------------------------------------------------------------------
==========================================================================================
 Apache License Version 2.0 for  net.bytebuddy » byte-buddy »
 ====================================================
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
```

```
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
```

```
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
```

```
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


------------------------------------------------------------------------------------------
==============================================================================
 BSD 3-clause New License for  org.dom4j » dom4j
 ==================================================
Copyright 2001-2016 (C) MetaStuff, Ltd. and DOM4J contributors. All Rights
 Reserved.

Redistribution and use of this software and associated documentation
("Software"), with or without modification, are permitted provided
that the following conditions are met:

1. Redistributions of source code must retain copyright
   statements and notices.  Redistributions must also contain a
   copy of this document.

2. Redistributions in binary form must reproduce the
   above copyright notice, this list of conditions and the
   following disclaimer in the documentation and/or other
   materials provided with the distribution.

3. The name "DOM4J" must not be used to endorse or promote
   products derived from this Software without prior written
   permission of MetaStuff, Ltd.  For written permission,
   please contact dom4j-info@metastuff.com.

4. Products derived from this Software may not be called "DOM4J"
   nor may "DOM4J" appear in their names without prior written
   permission of MetaStuff, Ltd. DOM4J is a registered
   trademark of MetaStuff, Ltd.

5. Due credit should be given to the DOM4J Project - https://
dom4j.github.io/
```

```
THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL
METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------------------
==============================================================================
 CDDL+GPL License for org.glassfish.jaxb » jaxb-runtime »
 ====================================================
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

1. Definitions.

    1.1. "Contributor" means each individual or entity that creates or
    contributes to the creation of Modifications.

    1.2. "Contributor Version" means the combination of the Original
    Software, prior Modifications used by a Contributor (if any), and
    the Modifications made by that particular Contributor.

    1.3. "Covered Software" means (a) the Original Software, or (b)
    Modifications, or (c) the combination of files containing Original
    Software with files containing Modifications, in each case including
    portions thereof.

    1.4. "Executable" means the Covered Software in any form other than
    Source Code.

    1.5. "Initial Developer" means the individual or entity that first
    makes Original Software available under this License.

    1.6. "Larger Work" means a work which combines Covered Software or
    portions thereof with code not governed by the terms of this License.

    1.7. "License" means this document.

    1.8. "Licensable" means having the right to grant, to the maximum
    extent possible, whether at the time of the initial grant or
    subsequently acquired, any and all of the rights conveyed herein.

    1.9. "Modifications" means the Source Code and Executable form of
    any of the following:

    A. Any file that results from an addition to, deletion from or
    modification of the contents of a file containing Original Software
    or previous Modifications;

    B. Any new file that contains any part of the Original Software or
    previous Modification; or

    C. Any new file that is contributed or otherwise made available
    under the terms of this License.

    1.10. "Original Software" means the Source Code and Executable form
    of computer software code that is originally released under this
```

```
    License.

    1.11. "Patent Claims" means any patent claim(s), now owned or
    hereafter acquired, including without limitation, method, process,
    and apparatus claims, in any patent Licensable by grantor.

    1.12. "Source Code" means (a) the common form of computer software
    code in which modifications are made and (b) associated
    documentation included in or with such code.

    1.13. "You" (or "Your") means an individual or a legal entity
    exercising rights under, and complying with all of the terms of,
    this License. For legal entities, "You" includes any entity which
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants.

    2.1. The Initial Developer Grant.

    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, the Initial Developer
    hereby grants You a world-wide, royalty-free, non-exclusive license:

    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Initial Developer, to use, reproduce,
    modify, display, perform, sublicense and distribute the Original
    Software (or portions thereof), with or without Modifications,
    and/or as part of a Larger Work; and

    (b) under Patent Claims infringed by the making, using or selling of
    Original Software, to make, have made, use, practice, sell, and
    offer for sale, and/or otherwise dispose of the Original Software
    (or portions thereof).

    (c) The licenses granted in Sections 2.1(a) and (b) are effective on
    the date Initial Developer first distributes or otherwise makes the
    Original Software available to a third party under the terms of this
    License.

    (d) Notwithstanding Section 2.1(b) above, no patent license is
    granted: (1) for code that You delete from the Original Software, or
    (2) for infringements caused by: (i) the modification of the
    Original Software, or (ii) the combination of the Original Software
    with other software or devices.

    2.2. Contributor Grant.

    Conditioned upon Your compliance with Section 3.1 below and subject
    to third party intellectual property claims, each Contributor hereby
    grants You a world-wide, royalty-free, non-exclusive license:

    (a) under intellectual property rights (other than patent or
    trademark) Licensable by Contributor to use, reproduce, modify,
    display, perform, sublicense and distribute the Modifications
    created by such Contributor (or portions thereof), either on an
    unmodified basis, with other Modifications, as Covered Software
    and/or as part of a Larger Work; and

    (b) under Patent Claims infringed by the making, using, or selling
```

```
    of Modifications made by that Contributor either alone and/or in
    combination with its Contributor Version (or portions of such
    combination), to make, use, sell, offer for sale, have made, and/or
    otherwise dispose of: (1) Modifications made by that Contributor (or
    portions thereof); and (2) the combination of Modifications made by
    that Contributor with its Contributor Version (or portions of such
    combination).

    (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
    on the date Contributor first distributes or otherwise makes the
    Modifications available to a third party.

    (d) Notwithstanding Section 2.2(b) above, no patent license is
    granted: (1) for any code that Contributor has deleted from the
    Contributor Version; (2) for infringements caused by: (i) third
    party modifications of Contributor Version, or (ii) the combination
    of Modifications made by that Contributor with other software
    (except as part of the Contributor Version) or other devices; or (3)
    under Patent Claims infringed by Covered Software in the absence of
    Modifications made by that Contributor.

3. Distribution Obligations.

    3.1. Availability of Source Code.

    Any Covered Software that You distribute or otherwise make available
    in Executable form must also be made available in Source Code form
    and that Source Code form must be distributed only under the terms
    of this License. You must include a copy of this License with every
    copy of the Source Code form of the Covered Software You distribute
    or otherwise make available. You must inform recipients of any such
    Covered Software in Executable form as to how they can obtain such
    Covered Software in Source Code form in a reasonable manner on or
    through a medium customarily used for software exchange.

    3.2. Modifications.

    The Modifications that You create or to which You contribute are
    governed by the terms of this License. You represent that You
    believe Your Modifications are Your original creation(s) and/or You
    have sufficient rights to grant the rights conveyed by this License.

    3.3. Required Notices.

    You must include a notice in each of Your Modifications that
    identifies You as the Contributor of the Modification. You may not
    remove or alter any copyright, patent or trademark notices contained
    within the Covered Software, or any notices of licensing or any
    descriptive text giving attribution to any Contributor or the
    Initial Developer.

    3.4. Application of Additional Terms.

    You may not offer or impose any terms on any Covered Software in
    Source Code form that alters or restricts the applicable version of
    this License or the recipients' rights hereunder. You may choose to
    offer, and to charge a fee for, warranty, support, indemnity or
    liability obligations to one or more recipients of Covered Software.
    However, you may do so only on Your own behalf, and not on behalf of
    the Initial Developer or any Contributor. You must make it
    absolutely clear that any such warranty, support, indemnity or
    liability obligation is offered by You alone, and You hereby agree
    to indemnify the Initial Developer and every Contributor for any
    liability incurred by the Initial Developer or such Contributor as a
```

```
    result of warranty, support, indemnity or liability terms You offer.

    3.5. Distribution of Executable Versions.

    You may distribute the Executable form of the Covered Software under
    the terms of this License or under the terms of a license of Your
    choice, which may contain terms different from this License,
    provided that You are in compliance with the terms of this License
    and that the license for the Executable form does not attempt to
    limit or alter the recipient's rights in the Source Code form from
    the rights set forth in this License. If You distribute the Covered
    Software in Executable form under a different license, You must make
    it absolutely clear that any terms which differ from this License
    are offered by You alone, not by the Initial Developer or
    Contributor. You hereby agree to indemnify the Initial Developer and
    every Contributor for any liability incurred by the Initial
    Developer or such Contributor as a result of any such terms You offer.

    3.6. Larger Works.

    You may create a Larger Work by combining Covered Software with
    other code not governed by the terms of this License and distribute
    the Larger Work as a single product. In such a case, You must make
    sure the requirements of this License are fulfilled for the Covered
    Software.

4. Versions of the License.

    4.1. New Versions.

    Oracle is the initial license steward and may publish revised and/or
    new versions of this License from time to time. Each version will be
    given a distinguishing version number. Except as provided in Section
    4.3, no one other than the license steward has the right to modify
    this License.

    4.2. Effect of New Versions.

    You may always continue to use, distribute or otherwise make the
    Covered Software available under the terms of the version of the
    License under which You originally received the Covered Software. If
    the Initial Developer includes a notice in the Original Software
    prohibiting it from being distributed or otherwise made available
    under any subsequent version of the License, You must distribute and
    make the Covered Software available under the terms of the version
    of the License under which You originally received the Covered
    Software. Otherwise, You may also choose to use, distribute or
    otherwise make the Covered Software available under the terms of any
    subsequent version of the License published by the license steward.

    4.3. Modified Versions.

    When You are an Initial Developer and You want to create a new
    license for Your Original Software, You may create and use a
    modified version of this License if You: (a) rename the license and
    remove any references to the name of the license steward (except to
    note that the license differs from this License); and (b) otherwise
    make it clear that the license contains terms which differ from this
    License.

5. DISCLAIMER OF WARRANTY.

    COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
    WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
```

```
    INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
    IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
    NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
    THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
    DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
    OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
    REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
    ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
    AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

    6.1. This License and the rights granted hereunder will terminate
    automatically if You fail to comply with terms herein and fail to
    cure such breach within 30 days of becoming aware of the breach.
    Provisions which, by their nature, must remain in effect beyond the
    termination of this License shall survive.

    6.2. If You assert a patent infringement claim (excluding
    declaratory judgment actions) against Initial Developer or a
    Contributor (the Initial Developer or Contributor against whom You
    assert such claim is referred to as "Participant") alleging that the
    Participant Software (meaning the Contributor Version where the
    Participant is a Contributor or the Original Software where the
    Participant is the Initial Developer) directly or indirectly
    infringes any patent, then any and all rights granted directly or
    indirectly to You by such Participant, the Initial Developer (if the
    Initial Developer is not the Participant) and all Contributors under
    Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
    from Participant terminate prospectively and automatically at the
    expiration of such 60 day notice period, unless if within such 60
    day period You withdraw Your claim with respect to the Participant
    Software against such Participant either unilaterally or pursuant to
    a written agreement with Participant.

    6.3. If You assert a patent infringement claim against Participant
    alleging that the Participant Software directly or indirectly
    infringes any patent where such claim is resolved (such as by
    license or settlement) prior to the initiation of patent
    infringement litigation, then the reasonable value of the licenses
    granted by such Participant under Sections 2.1 or 2.2 shall be taken
    into account in determining the amount or value of any payment or
    license.

    6.4. In the event of termination under Sections 6.1 or 6.2 above,
    all end user licenses that have been validly granted by You or any
    distributor hereunder prior to termination (excluding licenses
    granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

    UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
    (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
    INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
    COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
    TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
    CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
    LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
    FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
    LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
    POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
    APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
    PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
    LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
```

```
    LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
    AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

    The Covered Software is a "commercial item," as that term is defined
    in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
    software" (as that term is defined at 48 C.F.R. §
    252.227-7014(a)(1)) and "commercial computer software documentation"
    as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
    with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
    (June 1995), all U.S. Government End Users acquire Covered Software
    with only those rights set forth herein. This U.S. Government Rights
    clause is in lieu of, and supersedes, any other FAR, DFAR, or other
    clause or provision that addresses Government rights in computer
    software under this License.

9. MISCELLANEOUS.

    This License represents the complete agreement concerning subject
    matter hereof. If any provision of this License is held to be
    unenforceable, such provision shall be reformed only to the extent
    necessary to make it enforceable. This License shall be governed by
    the law of the jurisdiction specified in a notice contained within
    the Original Software (except to the extent applicable law, if any,
    provides otherwise), excluding such jurisdiction's conflict-of-law
    provisions. Any litigation relating to this License shall be subject
    to the jurisdiction of the courts located in the jurisdiction and
    venue specified in a notice contained within the Original Software,
    with the losing party responsible for costs, including, without
    limitation, court costs and reasonable attorneys' fees and expenses.
    The application of the United Nations Convention on Contracts for
    the International Sale of Goods is expressly excluded. Any law or
    regulation which provides that the language of a contract shall be
    construed against the drafter shall not apply to this License. You
    agree that You alone are responsible for compliance with the United
    States export administration regulations (and the export control
    laws and regulation of any other countries) when You use, distribute
    or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

    As between Initial Developer and the Contributors, each party is
    responsible for claims and damages arising, directly or indirectly,
    out of its utilization of rights under this License and You agree to
    work with Initial Developer and Contributors to distribute such
    responsibility on an equitable basis. Nothing herein is intended or
    shall be deemed to constitute any admission of liability.

----------------------------------------------------------------------------

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.



  The GNU General Public License (GPL) Version 2, June 1991
```

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is

```
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
    thereof, to be licensed as a whole at no charge to all third parties
    under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a notice
    that there is no warranty (or else, saying that you provide a
    warranty) and that users may redistribute the program under these
    conditions, and telling the user how to view a copy of this License.
    (Exception: if the Program itself is interactive but does not
    normally print such an announcement, your work based on the Program
    is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
```

```
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections 1
    and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your cost
    of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code. (This alternative is allowed
    only for noncommercial distribution and only if you received the
    program in object code or executable form with such an offer, in
    accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.
```

```
7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
```

```
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C)

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335
 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.
```

```
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

#

Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."

You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and others.  For example, the package includes programs
licensed under the Apache License, Version 2.0.  Such programs are
licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent
modules not licensed under the GPLv2.  However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result.  Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
```

```
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.

--------------------------------------------------------------------------------------
==============================================================================
 GNU Library General Public License v2.1 or later for
 org.hibernate.common » hibernate-commons-annotations »
 ==================================================
GNU Lesser General Public License
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place,
 Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and
 distribute verbatim copies of this license document, but changing it is not
 allowed.

[This is the first released version of the Lesser GPL. It also counts as the
 successor of the GNU Library Public License, version 2, hence the version
 number 2.1.]

Preamble
The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.
```

```
To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
```

```
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that
 you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all
 third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of
 data to be supplied by an application program that uses the facility, other
 than as an argument passed when the facility is invoked, then you must make
 a good faith effort to ensure that, in the event an application does not
 supply such function or table, the facility still operates, and performs
 whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose
 that is entirely well-defined independent of the application. Therefore,
 Subsection 2d requires that any application-supplied function or table used
```

```
 by this function must be optional: if the application does not supply it,
 the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.
```

```
When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A
 suitable mechanism is one that (1) uses at run time a copy of the library
 already present on the user's computer system, rather than copying library
 functions into the executable, and (2) will operate properly with a
 modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.

c) Accompany the work with a written offer, valid for at least three years,
 to give the same user the materials specified in Subsection 6a, above, for
 a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.

e) Verify that the user has already received a copy of these materials or
 that you have already sent this user a copy.
```

```
For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

a) Accompany the combined library with a copy of the same work based on
 the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part
 of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.
```

```
If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
```

```
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Libraries
If you develop a new library, and you want it to be of the greatest possible
 use to the public, we recommend making it free software that everyone can
 redistribute and change. You can do so by permitting redistribution under
 these terms (or, alternatively, under the terms of the ordinary General
 Public License).



To apply these terms, attach the following notices to the library. It is
 safest to attach them to the start of each source file to most effectively
 convey the exclusion of warranty; and each file should have at least the
 "copyright" line and a pointer to where the full notice is found.

 Copyright (C)

This library is free software; you can redistribute it and/or modify it
 under the terms of the GNU Lesser General Public License as published by
 the Free Software Foundation; either version 2.1 of the License, or (at
 your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License
 for more details.

You should have received a copy of the GNU Lesser General Public License
 along with this library; if not, write to the Free Software Foundation,
 Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
 school, if any, to sign a "copyright disclaimer" for the library, if
 necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library
 `Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

------------------------------------------------------------------------------------------
==============================================================================
 MPL 1.1 for org.javassist » javassist »
 ====================================================
(Plain text version)

Mozilla Public License Version 1.1
1. Definitions.
1.0.1. "Commercial Use"
means distribution or otherwise making the Covered Code available to a third
 party.
1.1. "Contributor"
means each entity that creates or contributes to the creation of
 Modifications.
1.2. "Contributor Version"
```

```
means the combination of the Original Code, prior Modifications used by a
 Contributor, and the Modifications made by that particular Contributor.
1.3. "Covered Code"
means the Original Code or Modifications or the combination of the Original
 Code and Modifications, in each case including portions thereof.
1.4. "Electronic Distribution Mechanism"
means a mechanism generally accepted in the software development community
 for the electronic transfer of data.
1.5. "Executable"
means Covered Code in any form other than Source Code.
1.6. "Initial Developer"
means the individual or entity identified as the Initial Developer in the
 Source Code notice required by Exhibit A.
1.7. "Larger Work"
means a work which combines Covered Code or portions thereof with code not
 governed by the terms of this License.
1.8. "License"
means this document.
1.8.1. "Licensable"
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently acquired, any and all of the
 rights conveyed herein.
1.9. "Modifications"
means any addition to or deletion from the substance or structure of either
 the Original Code or any previous Modifications. When Covered Code is
 released as a series of files, a Modification is:

Any addition to or deletion from the contents of a file containing Original
 Code or previous Modifications.
Any new file that contains any part of the Original Code or previous
 Modifications.
1.10. "Original Code"
means Source Code of computer software code which is described in the Source
 Code notice required by Exhibit A as Original Code, and which, at the time
 of its release under this License is not already Covered Code governed by
 this License.
1.10.1. "Patent Claims"
means any patent claim(s), now owned or hereafter acquired, including
 without limitation, method, process, and apparatus claims, in any patent
 Licensable by grantor.
1.11. "Source Code"
means the preferred form of the Covered Code for making modifications
 to it, including all modules it contains, plus any associated interface
 definition files, scripts used to control compilation and installation
 of an Executable, or source code differential comparisons against either
 the Original Code or another well known, available Covered Code of the
 Contributor's choice. The Source Code can be in a compressed or archival
 form, provided the appropriate decompression or de-archiving software is
 widely available for no charge.
1.12. "You" (or "Your")
means an individual or a legal entity exercising rights under, and complying
 with all of the terms of, this License or a future version of this License
 issued under Section 6.1. For legal entities, "You" includes any entity
 which controls, is controlled by, or is under common control with You.
 For purposes of this definition, "control" means (a) the power, direct or
 indirect, to cause the direction or management of such entity, whether by
 contract or otherwise, or (b) ownership of more than fifty percent (50%) of
 the outstanding shares or beneficial ownership of such entity.
2. Source Code License.
2.1. The Initial Developer Grant.
The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive license, subject to third party intellectual property claims:
```

```
under intellectual property rights (other than patent or trademark)
 Licensable by Initial Developer to use, reproduce, modify, display,
 perform, sublicense and distribute the Original Code (or portions thereof)
 with or without Modifications, and/or as part of a Larger Work; and
under Patents Claims infringed by the making, using or selling of Original
 Code, to make, have made, use, practice, sell, and offer for sale, and/or
 otherwise dispose of the Original Code (or portions thereof).
the licenses granted in this Section 2.1 (a) and (b) are effective on the
 date Initial Developer first distributes Original Code under the terms of
 this License.
Notwithstanding Section 2.1 (b) above, no patent license is granted: 1)
 for code that You delete from the Original Code; 2) separate from the
 Original Code; or 3) for infringements caused by: i) the modification of
 the Original Code or ii) the combination of the Original Code with other
 software or devices.
2.2. Contributor Grant.
Subject to third party intellectual property claims, each Contributor hereby
 grants You a world-wide, royalty-free, non-exclusive license

under intellectual property rights (other than patent or trademark)
 Licensable by Contributor, to use, reproduce, modify, display, perform,
 sublicense and distribute the Modifications created by such Contributor (or
 portions thereof) either on an unmodified basis, with other Modifications,
 as Covered Code and/or as part of a Larger Work; and
under Patent Claims infringed by the making, using, or selling of
 Modifications made by that Contributor either alone and/or in combination
 with its Contributor Version (or portions of such combination), to make,
 use, sell, offer for sale, have made, and/or otherwise dispose of: 1)
 Modifications made by that Contributor (or portions thereof); and 2) the
 combination of Modifications made by that Contributor with its Contributor
 Version (or portions of such combination).
the licenses granted in Sections 2.2 (a) and 2.2 (b) are effective on the
 date Contributor first makes Commercial Use of the Covered Code.
Notwithstanding Section 2.2 (b) above, no patent license is granted: 1)
 for any code that Contributor has deleted from the Contributor Version; 2)
 separate from the Contributor Version; 3) for infringements caused by: i)
 third party modifications of Contributor Version or ii) the combination of
 Modifications made by that Contributor with other software (except as part
 of the Contributor Version) or other devices; or 4) under Patent Claims
 infringed by Covered Code in the absence of Modifications made by that
 Contributor.
3. Distribution Obligations.
3.1. Application of License.
The Modifications which You create or to which You contribute are governed
 by the terms of this License, including without limitation Section 2.2.
 The Source Code version of Covered Code may be distributed only under the
 terms of this License or a future version of this License released under
 Section 6.1, and You must include a copy of this License with every copy
 of the Source Code You distribute. You may not offer or impose any terms on
 any Source Code version that alters or restricts the applicable version of
 this License or the recipients' rights hereunder. However, You may include
 an additional document offering the additional rights described in Section
 3.5.

3.2. Availability of Source Code.
Any Modification which You create or to which You contribute must be made
 available in Source Code form under the terms of this License either on
 the same media as an Executable version or via an accepted Electronic
 Distribution Mechanism to anyone to whom you made an Executable version
 available; and if made available via Electronic Distribution Mechanism,
 must remain available for at least twelve (12) months after the date it
 initially became available, or at least six (6) months after a subsequent
 version of that particular Modification has been made available to such
 recipients. You are responsible for ensuring that the Source Code version
```

```
 remains available even if the Electronic Distribution Mechanism is
 maintained by a third party.

3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a file
 documenting the changes You made to create that Covered Code and the date
 of any change. You must include a prominent statement that the Modification
 is derived, directly or indirectly, from Original Code provided by the
 Initial Developer and including the name of the Initial Developer in (a)
 the Source Code, and (b) in any notice in an Executable version or related
 documentation in which You describe the origin or ownership of the Covered
 Code.

3.4. Intellectual Property Matters
(a) Third Party Claims
If Contributor has knowledge that a license under a third party's
 intellectual property rights is required to exercise the rights granted
 by such Contributor under Sections 2.1 or 2.2, Contributor must include a
 text file with the Source Code distribution titled "LEGAL" which describes
 the claim and the party making the claim in sufficient detail that a
 recipient will know whom to contact. If Contributor obtains such knowledge
 after the Modification is made available as described in Section 3.2,
 Contributor shall promptly modify the LEGAL file in all copies Contributor
 makes available thereafter and shall take other steps (such as notifying
 appropriate mailing lists or newsgroups) reasonably calculated to inform
 those who received the Covered Code that new knowledge has been obtained.

(b) Contributor APIs
If Contributor's Modifications include an application programming interface
 and Contributor has knowledge of patent licenses which are reasonably
 necessary to implement that API, Contributor must also include this
 information in the LEGAL file.

(c) Representations.
Contributor represents that, except as disclosed pursuant to Section 3.4
 (a) above, Contributor believes that Contributor's Modifications are
 Contributor's original creation(s) and/or Contributor has sufficient rights
 to grant the rights conveyed by this License.

3.5. Required Notices.
You must duplicate the notice in Exhibit A in each file of the Source Code.
 If it is not possible to put such notice in a particular Source Code file
 due to its structure, then You must include such notice in a location (such
 as a relevant directory) where a user would be likely to look for such a
 notice. If You created one or more Modification(s) You may add your name as
 a Contributor to the notice described in Exhibit A. You must also duplicate
 this License in any documentation for the Source Code where You describe
 recipients' rights or ownership rights relating to Covered Code. You may
 choose to offer, and to charge a fee for, warranty, support, indemnity or
 liability obligations to one or more recipients of Covered Code. However,
 You may do so only on Your own behalf, and not on behalf of the Initial
 Developer or any Contributor. You must make it absolutely clear than any
 such warranty, support, indemnity or liability obligation is offered by You
 alone, and You hereby agree to indemnify the Initial Developer and every
 Contributor for any liability incurred by the Initial Developer or such
 Contributor as a result of warranty, support, indemnity or liability terms
 You offer.

3.6. Distribution of Executable Versions.
You may distribute Covered Code in Executable form only if the requirements
 of Sections 3.1, 3.2, 3.3, 3.4 and 3.5 have been met for that Covered
 Code, and if You include a notice stating that the Source Code version of
 the Covered Code is available under the terms of this License, including
 a description of how and where You have fulfilled the obligations of
```

```
 Section 3.2. The notice must be conspicuously included in any notice
 in an Executable version, related documentation or collateral in which
 You describe recipients' rights relating to the Covered Code. You may
 distribute the Executable version of Covered Code or ownership rights
 under a license of Your choice, which may contain terms different from
 this License, provided that You are in compliance with the terms of this
 License and that the license for the Executable version does not attempt to
 limit or alter the recipient's rights in the Source Code version from the
 rights set forth in this License. If You distribute the Executable version
 under a different license You must make it absolutely clear that any terms
 which differ from this License are offered by You alone, not by the Initial
 Developer or any Contributor. You hereby agree to indemnify the Initial
 Developer and every Contributor for any liability incurred by the Initial
 Developer or such Contributor as a result of any such terms You offer.

3.7. Larger Works.
You may create a Larger Work by combining Covered Code with other code not
 governed by the terms of this License and distribute the Larger Work as a
 single product. In such a case, You must make sure the requirements of this
 License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.
If it is impossible for You to comply with any of the terms of this
 License with respect to some or all of the Covered Code due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be included
 in the LEGAL file described in Section 3.4 and must be included with
 all distributions of the Source Code. Except to the extent prohibited by
 statute or regulation, such description must be sufficiently detailed for a
 recipient of ordinary skill to be able to understand it.

5. Application of this License.
This License applies to code to which the Initial Developer has attached the
 notice in Exhibit A and to related Covered Code.

6. Versions of the License.
6.1. New Versions
Netscape Communications Corporation ("Netscape") may publish revised and/or
 new versions of the License from time to time. Each version will be given a
 distinguishing version number.

6.2. Effect of New Versions
Once Covered Code has been published under a particular version of the
 License, You may always continue to use it under the terms of that version.
 You may also choose to use such Covered Code under the terms of any
 subsequent version of the License published by Netscape. No one other
 than Netscape has the right to modify the terms applicable to Covered Code
 created under this License.

6.3. Derivative Works
If You create or use a modified version of this License (which you may
 only do in order to apply it to code which is not already Covered Code
 governed by this License), You must (a) rename Your license so that the
 phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any
 confusingly similar phrase do not appear in your license (except to note
 that your license differs from this License) and (b) otherwise make it
 clear that Your version of the license contains terms which differ from the
 Mozilla Public License and Netscape Public License. (Filling in the name of
 the Initial Developer, Original Code or Contributor in the notice described
 in Exhibit A shall not of themselves be deemed to be modifications of this
 License.)

7. DISCLAIMER OF WARRANTY
```

```
COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT
 WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT
 LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS,
 MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE
 RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH
 YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT
 THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
 NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
 CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE
 IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. Termination
8.1. This License and the rights granted hereunder will terminate
 automatically if You fail to comply with terms herein and fail to cure such
 breach within 30 days of becoming aware of the breach. All sublicenses to
 the Covered Code which are properly granted shall survive any termination
 of this License. Provisions which, by their nature, must remain in effect
 beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim
 (excluding declatory judgment actions) against Initial Developer or a
 Contributor (the Initial Developer or Contributor against whom You file
 such action is referred to as "Participant") alleging that:

such Participant's Contributor Version directly or indirectly infringes any
 patent, then any and all rights granted by such Participant to You under
 Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from
 Participant terminate prospectively, unless if within 60 days after receipt
 of notice You either: (i) agree in writing to pay Participant a mutually
 agreeable reasonable royalty for Your past and future use of Modifications
 made by such Participant, or (ii) withdraw Your litigation claim with
 respect to the Contributor Version against such Participant. If within
 60 days of notice, a reasonable royalty and payment arrangement are not
 mutually agreed upon in writing by the parties or the litigation claim is
 not withdrawn, the rights granted by Participant to You under Sections 2.1
 and/or 2.2 automatically terminate at the expiration of the 60 day notice
 period specified above.
any software, hardware, or device, other than such Participant's Contributor
 Version, directly or indirectly infringes any patent, then any rights
 granted to You by such Participant under Sections 2.1(b) and 2.2(b) are
 revoked effective as of the date You first made, used, sold, distributed,
 or had made, Modifications made by that Participant.
8.3. If You assert a patent infringement claim against Participant alleging
 that such Participant's Contributor Version directly or indirectly
 infringes any patent where such claim is resolved (such as by license or
 settlement) prior to the initiation of patent infringement litigation,
 then the reasonable value of the licenses granted by such Participant under
 Sections 2.1 or 2.2 shall be taken into account in determining the amount
 or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all
 end user license agreements (excluding distributors and resellers) which
 have been validly granted by You or any distributor hereunder prior to
 termination shall survive termination.

9. LIMITATION OF LIABILITY
UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING
 NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY
 OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF
 ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL,
 INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
 LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE
 OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN
 IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES.
```

```
 THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR
 PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT
 APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW
 THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS
 EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. government end users
The Covered Code is a "commercial item," as that term is defined in 48
 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and
 "commercial computer software documentation," as such terms are used in 48
 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R.
 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users
 acquire Covered Code with only those rights set forth herein.

11. Miscellaneous
This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. This License shall be governed by California law provisions
 (except to the extent applicable law, if any, provides otherwise),
 excluding its conflict-of-law provisions. With respect to disputes in
 which at least one party is a citizen of, or an entity chartered or
 registered to do business in the United States of America, any litigation
 relating to this License shall be subject to the jurisdiction of the
 Federal Courts of the Northern District of California, with venue lying
 in Santa Clara County, California, with the losing party responsible for
 costs, including without limitation, court costs and reasonable attorneys'
 fees and expenses. The application of the United Nations Convention on
 Contracts for the International Sale of Goods is expressly excluded. Any
 law or regulation which provides that the language of a contract shall be
 construed against the drafter shall not apply to this License.

12. Responsibility for claims
As between Initial Developer and the Contributors, each party is responsible
 for claims and damages arising, directly or indirectly, out of its
 utilization of rights under this License and You agree to work with
 Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.

13. Multiple-licensed code
Initial Developer may designate portions of the Covered Code as "Multiple-
Licensed". "Multiple-Licensed" means that the Initial Developer permits you
 to utilize portions of the Covered Code under Your choice of the MPL or
 the alternative licenses, if any, specified by the Initial Developer in the
 file described in Exhibit A.

Exhibit A - Mozilla Public License.
"The contents of this file are subject to the Mozilla Public License
Version 1.1 (the "License"); you may not use this file except in
compliance with the License. You may obtain a copy of the License at
https://www.mozilla.org/MPL/

Software distributed under the License is distributed on an "AS IS"
basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
License for the specific language governing rights and limitations
under the License.

The Original Code is ________________________________________.

The Initial Developer of the Original Code is _________________________.
Portions created by _______________________ are Copyright (C) ______
________________________. All Rights Reserved.
```

```
Contributor(s): _____________________________________.

Alternatively, the contents of this file may be used under the terms
of the _____ license (the  "[___] License"), in which case the
provisions of [______] License are applicable instead of those
above. If you wish to allow use of your version of this file only
under the terms of the [____] License and not to allow others to use
your version of this file under the MPL, indicate your decision by
deleting the provisions above and replace them with the notice and
other provisions required by the [___] License. If you do not delete
the provisions above, a recipient may use your version of this file
under either the MPL or the [___] License."
NOTE: The text of this Exhibit A may differ slightly from the text of the
 notices in the Source Code files of the Original Code. You should use the
 text of this Exhibit A rather than the text found in the Original Code
 Source Code for Your Modifications.

-------------------------------------------------------------------------------------------
==============================================================================
 LGPL 2.1 for org.javassist » javassist »
 ====================================================

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]
Preamble
The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
```

```
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
```

```
 derived from the library, whereas the latter must be combined with the
 library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that
 you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all
 third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of
 data to be supplied by an application program that uses the facility, other
 than as an argument passed when the facility is invoked, then you must make
 a good faith effort to ensure that, in the event an application does not
 supply such function or table, the facility still operates, and performs
 whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose
 that is entirely well-defined independent of the application. Therefore,
```

```
 Subsection 2d requires that any application-supplied function or table used
 by this function must be optional: if the application does not supply it,
 the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.
```

```
When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A
 suitable mechanism is one that (1) uses at run time a copy of the library
 already present on the user's computer system, rather than copying library
 functions into the executable, and (2) will operate properly with a
 modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
c) Accompany the work with a written offer, valid for at least three years,
 to give the same user the materials specified in Subsection 6a, above, for
 a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
e) Verify that the user has already received a copy of these materials or
 that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
```

```
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:

a) Accompany the combined library with a copy of the same work based on
 the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part
 of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
```

```
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Libraries
```

```
If you develop a new library, and you want it to be of the greatest possible
 use to the public, we recommend making it free software that everyone can
 redistribute and change. You can do so by permitting redistribution under
 these terms (or, alternatively, under the terms of the ordinary General
 Public License).

To apply these terms, attach the following notices to the library. It is
 safest to attach them to the start of each source file to most effectively
 convey the exclusion of warranty; and each file should have at least the
 "copyright" line and a pointer to where the full notice is found.

one line to give the library's name and an idea of what it does.
Copyright (C) year  name of author

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301
 USA
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
 school, if any, to sign a "copyright disclaimer" for the library, if
 necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in
the library `Frob' (a library for tweaking knobs) written
by James Random Hacker.

signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
--------------------------------------------------------------------------------------------------------
==============================================================================
 Apache License 2.0 for org.javassist » javassist »
 ==================================================
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
```

```
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
```

```
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
```

```
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS


-------------------------------------------------------------------------------------------
==============================================================================
 Apache License 2.0 for org.jboss » jandex »
 ==============================================
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
```

```
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
```

```
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

-------------------------------------------------------------------------------------------
==========================================================================================
 Apache License 2.0 for org.jboss.logging » jboss-logging »
 ==========================================================
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
```

```
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
```

```
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

-------------------------------------------------------------------------------------------
==============================================================================
 Common Development and Distribution License for
 org.jboss.spec.javax.transaction » jboss-transaction-api_1.2_spec »
 ====================================================
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0


      1. Definitions.

            1.1. "Contributor" means each individual or entity that
            creates or contributes to the creation of Modifications.

            1.2. "Contributor Version" means the combination of the
            Original Software, prior Modifications used by a
            Contributor (if any), and the Modifications made by that
            particular Contributor.

            1.3. "Covered Software" means (a) the Original Software, or
            (b) Modifications, or (c) the combination of files
            containing Original Software with files containing
            Modifications, in each case including portions thereof.

            1.4. "Executable" means the Covered Software in any form
            other than Source Code.

            1.5. "Initial Developer" means the individual or entity
            that first makes Original Software available under this
            License.

            1.6. "Larger Work" means a work which combines Covered
            Software or portions thereof with code not governed by the
            terms of this License.
```

```
            1.7. "License" means this document.

            1.8. "Licensable" means having the right to grant, to the
            maximum extent possible, whether at the time of the initial
            grant or subsequently acquired, any and all of the rights
            conveyed herein.

            1.9. "Modifications" means the Source Code and Executable
            form of any of the following:

                  A. Any file that results from an addition to,
                  deletion from or modification of the contents of a
                  file containing Original Software or previous
                  Modifications;

                  B. Any new file that contains any part of the
                  Original Software or previous Modification; or

                  C. Any new file that is contributed or otherwise made
                  available under the terms of this License.

            1.10. "Original Software" means the Source Code and
            Executable form of computer software code that is
            originally released under this License.

            1.11. "Patent Claims" means any patent claim(s), now owned
            or hereafter acquired, including without limitation,
            method, process, and apparatus claims, in any patent
            Licensable by grantor.

            1.12. "Source Code" means (a) the common form of computer
            software code in which modifications are made and (b)
            associated documentation included in or with such code.

            1.13. "You" (or "Your") means an individual or a legal
            entity exercising rights under, and complying with all of
            the terms of, this License. For legal entities, "You"
            includes any entity which controls, is controlled by, or is
            under common control with You. For purposes of this
            definition, "control" means (a) the power, direct or
            indirect, to cause the direction or management of such
            entity, whether by contract or otherwise, or (b) ownership
            of more than fifty percent (50%) of the outstanding shares
            or beneficial ownership of such entity.

      2. License Grants.

            2.1. The Initial Developer Grant.

            Conditioned upon Your compliance with Section 3.1 below and
            subject to third party intellectual property claims, the
            Initial Developer hereby grants You a world-wide,
            royalty-free, non-exclusive license:

                  (a) under intellectual property rights (other than
                  patent or trademark) Licensable by Initial Developer,
                  to use, reproduce, modify, display, perform,
                  sublicense and distribute the Original Software (or
                  portions thereof), with or without Modifications,
                  and/or as part of a Larger Work; and

                  (b) under Patent Claims infringed by the making,
                  using or selling of Original Software, to make, have
                  made, use, practice, sell, and offer for sale, and/or
```

```
                otherwise dispose of the Original Software (or
                portions thereof).

                (c) The licenses granted in Sections 2.1(a) and (b)
                are effective on the date Initial Developer first
                distributes or otherwise makes the Original Software
                available to a third party under the terms of this
                License.

                (d) Notwithstanding Section 2.1(b) above, no patent
                license is granted: (1) for code that You delete from
                the Original Software, or (2) for infringements
                caused by: (i) the modification of the Original
                Software, or (ii) the combination of the Original
                Software with other software or devices.

        2.2. Contributor Grant.

        Conditioned upon Your compliance with Section 3.1 below and
        subject to third party intellectual property claims, each
        Contributor hereby grants You a world-wide, royalty-free,
        non-exclusive license:

                (a) under intellectual property rights (other than
                patent or trademark) Licensable by Contributor to
                use, reproduce, modify, display, perform, sublicense
                and distribute the Modifications created by such
                Contributor (or portions thereof), either on an
                unmodified basis, with other Modifications, as
                Covered Software and/or as part of a Larger Work; and


                (b) under Patent Claims infringed by the making,
                using, or selling of Modifications made by that
                Contributor either alone and/or in combination with
                its Contributor Version (or portions of such
                combination), to make, use, sell, offer for sale,
                have made, and/or otherwise dispose of: (1)
                Modifications made by that Contributor (or portions
                thereof); and (2) the combination of Modifications
                made by that Contributor with its Contributor Version
                (or portions of such combination).

                (c) The licenses granted in Sections 2.2(a) and
                2.2(b) are effective on the date Contributor first
                distributes or otherwise makes the Modifications
                available to a third party.

                (d) Notwithstanding Section 2.2(b) above, no patent
                license is granted: (1) for any code that Contributor
                has deleted from the Contributor Version; (2) for
                infringements caused by: (i) third party
                modifications of Contributor Version, or (ii) the
                combination of Modifications made by that Contributor
                with other software (except as part of the
                Contributor Version) or other devices; or (3) under
                Patent Claims infringed by Covered Software in the
                absence of Modifications made by that Contributor.

3. Distribution Obligations.

        3.1. Availability of Source Code.

        Any Covered Software that You distribute or otherwise make
```

```
available in Executable form must also be made available in
Source Code form and that Source Code form must be
distributed only under the terms of this License. You must
include a copy of this License with every copy of the
Source Code form of the Covered Software You distribute or
otherwise make available. You must inform recipients of any
such Covered Software in Executable form as to how they can
obtain such Covered Software in Source Code form in a
reasonable manner on or through a medium customarily used
for software exchange.

3.2. Modifications.

The Modifications that You create or to which You
contribute are governed by the terms of this License. You
represent that You believe Your Modifications are Your
original creation(s) and/or You have sufficient rights to
grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications
that identifies You as the Contributor of the Modification.
You may not remove or alter any copyright, patent or
trademark notices contained within the Covered Software, or
any notices of licensing or any descriptive text giving
attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered
Software in Source Code form that alters or restricts the
applicable version of this License or the recipients"
rights hereunder. You may choose to offer, and to charge a
fee for, warranty, support, indemnity or liability
obligations to one or more recipients of Covered Software.
However, you may do so only on Your own behalf, and not on
behalf of the Initial Developer or any Contributor. You
must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by
You alone, and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred
by the Initial Developer or such Contributor as a result of
warranty, support, indemnity or liability terms You offer.


3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered
Software under the terms of this License or under the terms
of a license of Your choice, which may contain terms
different from this License, provided that You are in
compliance with the terms of this License and that the
license for the Executable form does not attempt to limit
or alter the recipient"s rights in the Source Code form
from the rights set forth in this License. If You
distribute the Covered Software in Executable form under a
different license, You must make it absolutely clear that
any terms which differ from this License are offered by You
alone, not by the Initial Developer or Contributor. You
hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of any such terms
You offer.
```

```
        3.6. Larger Works.

        You may create a Larger Work by combining Covered Software
        with other code not governed by the terms of this License
        and distribute the Larger Work as a single product. In such
        a case, You must make sure the requirements of this License
        are fulfilled for the Covered Software.

    4. Versions of the License.

        4.1. New Versions.

        Sun Microsystems, Inc. is the initial license steward and
        may publish revised and/or new versions of this License
        from time to time. Each version will be given a
        distinguishing version number. Except as provided in
        Section 4.3, no one other than the license steward has the
        right to modify this License.

        4.2. Effect of New Versions.

        You may always continue to use, distribute or otherwise
        make the Covered Software available under the terms of the
        version of the License under which You originally received
        the Covered Software. If the Initial Developer includes a
        notice in the Original Software prohibiting it from being
        distributed or otherwise made available under any
        subsequent version of the License, You must distribute and
        make the Covered Software available under the terms of the
        version of the License under which You originally received
        the Covered Software. Otherwise, You may also choose to
        use, distribute or otherwise make the Covered Software
        available under the terms of any subsequent version of the
        License published by the license steward.

        4.3. Modified Versions.

        When You are an Initial Developer and You want to create a
        new license for Your Original Software, You may create and
        use a modified version of this License if You: (a) rename
        the license and remove any references to the name of the
        license steward (except to note that the license differs
        from this License); and (b) otherwise make it clear that
        the license contains terms which differ from this License.


    5. DISCLAIMER OF WARRANTY.

    COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS"
    BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
    INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED
    SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR
    PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND
    PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY
    COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE
    INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF
    ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF
    WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF
    ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS
    DISCLAIMER.

    6. TERMINATION.
```

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY"S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. " 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses

```
      Government rights in computer software under this License.

      9. MISCELLANEOUS.

      This License represents the complete agreement concerning subject
      matter hereof. If any provision of this License is held to be
      unenforceable, such provision shall be reformed only to the
      extent necessary to make it enforceable. This License shall be
      governed by the law of the jurisdiction specified in a notice
      contained within the Original Software (except to the extent
      applicable law, if any, provides otherwise), excluding such
      jurisdiction"s conflict-of-law provisions. Any litigation
      relating to this License shall be subject to the jurisdiction of
      the courts located in the jurisdiction and venue specified in a
      notice contained within the Original Software, with the losing
      party responsible for costs, including, without limitation, court
      costs and reasonable attorneys" fees and expenses. The
      application of the United Nations Convention on Contracts for the
      International Sale of Goods is expressly excluded. Any law or
      regulation which provides that the language of a contract shall
      be construed against the drafter shall not apply to this License.
      You agree that You alone are responsible for compliance with the
      United States export administration regulations (and the export
      control laws and regulation of any other countries) when You use,
      distribute or otherwise make available any Covered Software.

      10. RESPONSIBILITY FOR CLAIMS.

      As between Initial Developer and the Contributors, each party is
      responsible for claims and damages arising, directly or
      indirectly, out of its utilization of rights under this License
      and You agree to work with Initial Developer and Contributors to
      distribute such responsibility on an equitable basis. Nothing
      herein is intended or shall be deemed to constitute any admission
      of liability.

------------------------------------------------------------------------------------------
==========================================================================================
 GNU General Public License, Version 2 with the Classpath Exception for
 org.jboss.spec.javax.transaction » jboss-transaction-api_1.2_spec »
 ==================================================

                    GNU GENERAL PUBLIC LICENSE
                       Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                             Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
```

```
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

                    GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.
```

```
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
```

```
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.
```

```
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                             NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.
```

```
                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.


    Copyright (C)

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  , 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
```

```
"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's
 header
the words "Oracle designates this particular file as subject to the
 "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this
 code."

    Linking this library statically or dynamically with other modules is
 making
    a combined work based on this library.  Thus, the terms and conditions
 of
    the GNU General Public License cover the whole combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
 modules,
    and to copy and distribute the resulting executable under terms of your
    choice, provided that you also meet, for each linked independent module,
    the terms and conditions of the license of that module.  An independent
    module is a module which is not derived from or based on this library.
 If
    you modify this library, you may extend this exception to your version
 of
    the library, but you are not obligated to do so.  If you do not wish to
 do
    so, delete this exception statement from your version.
```

Provider: Red Hat Middleware LLC / Component(s): hibernate-hikaricp 5.6.14.Final

```
------------------------------ Top-Level License
 -------------------------------
SPDX:LGPL-2.1

== Copyright
  Copyright (c) 2001-2021 Red Hat, Inc. All Rights Reserved.
  Copyright (c) 2008, Red Hat Middleware LLC or third-party contributors
  indicated by the @author tags or express copyright attribution
  statements applied by the authors.  All third-party contributions are
  distributed under license by Red Hat Inc.


-------------------------- Fourth Party Dependencies
 ---------------------------

------------------------------------ Licenses
 ------------------------------------

- Apache-2.0
- CDDL-1.0
- CDDL-1.1
- EPL-1.0
- GPL-2.0 WITH Classpath-exception-2.0
- LGPL-2.1
- MIT

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
antlr:antlr

We reserve no legal rights to the ANTLR--it is fully in the public domain.
 An individual or company may do whatever they wish with source code
 distributed with ANTLR or the code generated by ANTLR, including the
 incorporation of ANTLR, or its output, into commerical software.
We encourage users to develop software with ANTLR. However, we do ask that
 credit is given to us for developing ANTLR. By "credit", we mean that if
 you use ANTLR or incorporate any source code into one of your programs
 (commercial product, research project, or otherwise) that you acknowledge
 this fact somewhere in the documentation, research report, etc... If you
 like ANTLR and have developed a nice tool with the output, please mention
 that you developed it using ANTLR. In addition, we ask that the headers
 remain intact in our source code. As long as these guidelines are kept,
 we expect to continue enhancing this system and expect to make other tools
 available as they are completed.

In countries where the Public Domain status of the work may not be valid,
 the author grants a copyright licence to the general public to deal in the
 work without restriction and permission to sublicence derivates under the
 terms of any (OSI approved) Open Source licence.

The Python parser generator code under antlr/actions/python/ is covered by
 the 3-clause BSD licence (this part is included in the binary JAR files);
 the run-time part under lib/python/ is covered by the GNU GPL, version 3 or
 later (this part is not included in the binary JAR files). See here for the
 full details.

== Copyright
 ANTLR 1989-2005 Developed by Terence Parr @ University of San Francisco

---------------------------------- (separator)
 -----------------------------------

== Dependency
com.fasterxml:classmate

SPDX:Apache-2.0

== Copyright
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright 2002-2004 Apache Software Foundation.
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 Digital Rapids Corp.
Copyright 2010 The Go Authors.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors.  All rights reserved.
```

```
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 Martin Steiger
Copyright 2014 - Present Rafael Winterhalter
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors.  All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/template
\"\n\t\"golang.org/x/tools/internal/lsp/diff\"\n\t\"golang.org/x/tools/
internal/lsp/diff/difftest\"\n\t\"golang.org/x/tools/internal/span\"\n)\n"
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/internal/lsp/diff
\"\n\t\"golang.org/x/tools/internal/lsp/diff/difftest\"\n\t\"golang.org/x/
tools/internal/span\"\n)\n"
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2000-2011 INRIA, France Telecom
Copyright (C) 2003-2007 University of Maryland
Copyright (C) 2005-2006 University of Maryland
Copyright (C) 2005-2006, University of Maryland
Copyright (c) 2005 Brian Goetz
Copyright (C) 2005 University of Maryland
Copyright (C) 2005, University of Maryland
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2007-2008 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2012 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2013 Timothy Wall, All Rights Reserved
Copyright (c) 2007, 2013 Timothy Wall, Markus Karg, All Rights Reserved
Copyright (c) 2007-2015 Timothy Wall, All Rights Reserved
Copyright (c) 2007 Olivier Chafik
Copyright (c) 2007 Olivier Chafik, All Rights Reserved
Copyright (c) 2007 Timothy Wall, All Rights Reserved
Copyright (c) 2007 Wayne Meissner, All Rights Reserved
Copyright (c) 2008 Timothy Wall, All Rights Reserved
Copyright (C) 2008, University of Maryland
```

```
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2009 Timothy Wall, All Rights Reserved
Copyright (c) 2010,2011 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2010, 2013 Daniel Doubrovkine, Markus Karg, All Rights
 Reserved
Copyright (c) 2010 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2010 EugineLev, All Rights Reserved
Copyright (c) 2010 Timothy Wall, All Rights Reserved
Copyright (c) 2011 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2011 Denis Tulskiy
Copyright (c) 2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2011 Timothy Wall, All Rights Reserved
Copyright (C) 2011 University of Maryland
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka <miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012 Timothy Wall, All Rights Reserved
Copyright (c) 2012 Tobias Wolf, All Rights Reserved
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2013 Ralf Hamberger, Markus Karg, All Rights Reserved
Copyright (c) 2013 Tobias Wolf, All Rights Reserved
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 Dr David H. Akehurst (itemis), All Rights Reserved
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Reinhard Pointner, All Rights Reserved
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 Adam Marcionek, All Rights Reserved
Copyright (c) 2015 Andreas "PAX" L\u00FCck, All Rights Reserved
Copyright (c) 2015 Daniel Widdis
Copyright (c) 2015 Goldstein Lyor, 2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2015 Goldstein Lyor, All Rights Reserved
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Michael Freeman, All Rights Reserved
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Adam Marcionek, All Rights Reserved
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Minoru Sakamoto, All Rights Reserved
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 Daniel Widdis, All Rights Reserved
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2018,2020,2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2018, 2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2018 Daniel Widdis, All Rights Reserved
Copyright (c) 2018 Matthias BlÃ¤sing
Copyright (c) 2018 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2018 Roshan Muralidharan, All Rights Reserved
Copyright (c) 2018 VÃ¡clav Haisman, All Rights Reserved
Copyright (c) 2019, 2021 Daniel Widdis
```

```
Copyright (c) 2019 Daniel Widdis
Copyright (c) 2019 Daniel Widdis, All Rights Reserved
Copyright (c) 2019 Keve MÃ¼ller
Copyright (c) 2019 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2020 Daniel Widdis, All Rights Reserved
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) 2020 TorbjÃ¶rn Svensson, All Rights Reserved
Copyright (c) 2021, Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2022 Daniel Widdis, All Rights Reserved
Copyright (c) Microsoft Corporation
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
com.sun.istack:istack-commons-runtime

SPDX:CDDL-1.1

== Copyright
    Copyright (c) 1997-2018 Oracle and/or its affiliates. All rights
 reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
com.sun.xml.fastinfoset:FastInfoset

SPDX:Apache-2.0

== Copyright
Copyright ${project.inceptionYear} - ${current.year} ${copyright.holder}
Copyright &#169; 1995-2002 eBay Inc. All Rights Reserved.
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright 2002-2004 Apache Software Foundation.
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 Digital Rapids Corp.
Copyright 2010 The Go Authors.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 Martin Steiger
```

```
Copyright 2014 - Present Rafael Winterhalter
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors.  All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/template
\"\n\t\"golang.org/x/tools/internal/lsp/diff\"\n\t\"golang.org/x/tools/
internal/lsp/diff/difftest\"\n\t\"golang.org/x/tools/internal/span\"\n)\n"
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/internal/lsp/diff
\"\n\t\"golang.org/x/tools/internal/lsp/diff/difftest\"\n\t\"golang.org/x/
tools/internal/span\"\n)\n"
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2000-2011 INRIA, France Telecom
Copyright (C) 2003-2007 University of Maryland
Copyright (C) 2005-2006 University of Maryland
Copyright (C) 2005-2006, University of Maryland
Copyright (c) 2005 Brian Goetz
Copyright (C) 2005 University of Maryland
Copyright (C) 2005, University of Maryland
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2007-2008 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2012 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2013 Timothy Wall, All Rights Reserved
Copyright (c) 2007, 2013 Timothy Wall, Markus Karg, All Rights Reserved
Copyright (c) 2007-2015 Timothy Wall, All Rights Reserved
Copyright (c) 2007 Olivier Chafik
Copyright (c) 2007 Olivier Chafik, All Rights Reserved
Copyright (c) 2007 Timothy Wall, All Rights Reserved
Copyright (c) 2007 Wayne Meissner, All Rights Reserved
Copyright (c) 2008 Timothy Wall, All Rights Reserved
Copyright (C) 2008, University of Maryland
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2009 Timothy Wall, All Rights Reserved
Copyright (c) 2010,2011 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
```

```
Copyright (c) 2010, 2013 Daniel Doubrovkine, Markus Karg, All Rights
 Reserved
Copyright (c) 2010 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2010 EugineLev, All Rights Reserved
Copyright (c) 2010 Timothy Wall, All Rights Reserved
Copyright (c) 2011 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2011 Denis Tulskiy
Copyright (c) 2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2011 Timothy Wall, All Rights Reserved
Copyright (C) 2011 University of Maryland
Copyright (c) 2012-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka <miki.tebeka@gmail.com>.
Copyright (c) 2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012 Timothy Wall, All Rights Reserved
Copyright (c) 2012 Tobias Wolf, All Rights Reserved
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2013 Ralf Hamberger, Markus Karg, All Rights Reserved
Copyright (c) 2013 Tobias Wolf, All Rights Reserved
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 Dr David H. Akehurst (itemis), All Rights Reserved
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Reinhard Pointner, All Rights Reserved
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 Adam Marcionek, All Rights Reserved
Copyright (c) 2015 Andreas "PAX" L\u00FCck, All Rights Reserved
Copyright (c) 2015 Daniel Widdis
Copyright (c) 2015 Goldstein Lyor, 2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2015 Goldstein Lyor, All Rights Reserved
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Michael Freeman, All Rights Reserved
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Adam Marcionek, All Rights Reserved
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Minoru Sakamoto, All Rights Reserved
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 Daniel Widdis, All Rights Reserved
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2018,2020,2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2018, 2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2018 Daniel Widdis, All Rights Reserved
Copyright (c) 2018 Matthias BlÃ¤sing
Copyright (c) 2018 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2018 Roshan Muralidharan, All Rights Reserved
Copyright (c) 2018 VÃ¡clav Haisman, All Rights Reserved
Copyright (c) 2019, 2021 Daniel Widdis
Copyright (c) 2019 Daniel Widdis
Copyright (c) 2019 Daniel Widdis, All Rights Reserved
```

```
Copyright (c) 2019 Keve MÃ¼ller
Copyright (c) 2019 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2020 Daniel Widdis, All Rights Reserved
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) 2020 TorbjÃ¶rn Svensson, All Rights Reserved
Copyright (c) 2021, Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2022 Daniel Widdis, All Rights Reserved
Copyright (c) Microsoft Corporation
Copyright (c) Microsoft Corporation.
Copyright &copy; 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
com.zaxxer:HikariCP

SPDX:Apache-2.0

== Copyright
Copyright (C) 2013 Brett Wooldridge
Copyright (C) 2013, 2014 Brett Wooldridge
Copyright (C) 2013, 2017 Brett Wooldridge
Copyright (C) 2013, 2019 Brett Wooldridge
Copyright (C) 2013,2014 Brett Wooldridge
Copyright (C) 2014 Brett Wooldridge
Copyright (C) 2015 Brett Wooldridge
Copyright (C) 2016 Brett Wooldridge
Copyright (C) 2017 Brett Wooldridge
Copyright (C) 2019 Brett Wooldridge

---------------------------------- (separator)
 ----------------------------------

== Dependency
javax.activation:javax.activation-api

SPDX:CDDL-1.1

== Copyright
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Copyright (C) <year> <name of author>
Copyright (C) year name of author
Copyright (c) 1997-2015 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2017 Oracle and/or its affiliates. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
javax.persistence:javax.persistence-api

SPDX:EPL-1.0

== Copyright
Copyright (c) 2008, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
javax.xml.bind:jaxb-api

SPDX:CDDL-1.1

== Copyright
Copyright (c) 2003, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2006, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2007, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
net.bytebuddy:byte-buddy

SPDX:Apache-2.0

== Copyright
Copyright 2014 - Present Rafael Winterhalter

---------------------------------- (separator)
 ----------------------------------

== Dependency
org.glassfish.jaxb:jaxb-runtime

SPDX:CDDL-1.1

== Copyright
Copyright (c) 1997-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2014 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2015 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2016 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2003-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2003-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2011 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005-2011 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2006-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2007-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2008 - 2013 Oracle Corporation. All rights reserved.
Copyright (c) 2008 - 2014 Oracle Corporation. All rights reserved.
Copyright (c) 2008 - 2015 Oracle Corporation. All rights reserved.
Copyright (c) 2008 - 2017 Oracle Corporation. All rights reserved.
Copyright (c) 2010-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011 - 2013 Oracle Corporation. All rights reserved.
Copyright (c) 2011 - 2015 Oracle Corporation. All rights reserved.
Copyright (c) 2011-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011 - 2017 Oracle Corporation. All rights reserved.
Copyright (c) 2012-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012 Oracle and/or its affiliates. All rights reserved.
```

```
Copyright (c) 2013-2014 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013 Oracle Corporation. All rights reserved.
Copyright (c) 2014-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017 Oracle Corporation. All rights reserved.
Copyright &copy; 2017 Oracle and/or its affiliates. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
org.glassfish.jaxb:txw2

SPDX:CDDL-1.1

== Copyright
Copyright (c) 1997-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2014 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2015 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2016 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2003-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2003-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2011 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005-2011 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2006-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2007-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2010-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013-2014 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2014-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017 Oracle and/or its affiliates. All rights reserved.
Copyright &copy; 2017 Oracle and/or its affiliates. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
org.hibernate.common:hibernate-commons-annotations

SPDX:LGPL-2.1

== Copyright
Copyright ${project.inceptionYear} - ${current.year} ${copyright.holder}
Copyright &#169; 1995-2002 eBay Inc. All Rights Reserved.
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
```

```
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.
Copyright 2001-2023 Â© MetaStuff, Ltd. and DOM4J contributors. All Rights
 Reserved.
Copyright 2002-2004 Apache Software Foundation.
Copyright 2003-2012 The Apache Software Foundation
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 Digital Rapids Corp.
Copyright 2010 Google Inc. The comments and initialization of {@code
 REPLACEMENT_CHARS} came
Copyright 2010 The Go Authors.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012-2019 the original author or authors.
Copyright 2012 Andrew Wang (andrew@umbrant.com)
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2012 The Netty Project
Copyright 2013 Red Hat, Inc., and individual contributors
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2013 The Netty Project
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 - 2020 Rafael Winterhalter
Copyright 2014 gRPC authors.
Copyright 2014 Martin Steiger
Copyright 2014 - Present Rafael Winterhalter
Copyright 2014 Red Hat, Inc., and individual contributors
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors.  All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 Pivotal Software, Inc.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2017 The Netty Project
Copyright 2017 VMware, Inc.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 VMware, Inc.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
```

```
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/template
\"\n\t\"golang.org/x/tools/internal/lsp/diff\"\n\t\"golang.org/x/tools/
internal/lsp/diff/difftest\"\n\t\"golang.org/x/tools/internal/span\"\n)\n"
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/internal/lsp/diff
\"\n\t\"golang.org/x/tools/internal/lsp/diff/difftest\"\n\t\"golang.org/x/
tools/internal/span\"\n)\n"
Copyright 2019 VMware, Inc.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2020 VMware, Inc.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place,
 Suite 330, Boston, MA 02111-1307 USA
Copyright (c) 1997-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2014 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2015 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2016 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1999-2004 The Apache Software Foundation.  All rights
Copyright (C) 1999-2020 Shigeru Chiba."
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Copyright (c) 2000-2011 INRIA, France Telecom
Copyright (c) 2001 - 2005 freebxml.org.  All rights reserved.
Copyright (C) 2003-2007 University of Maryland
Copyright (c) 2003-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2003-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2011 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2011 QOS.ch
Copyright (c) 2004-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (C) 2004 Bill Burke. All Rights Reserved.
Copyright (C) 2005-2006 University of Maryland
Copyright (C) 2005-2006, University of Maryland
Copyright (c) 2005-2011 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005 Brian Goetz
Copyright (C) 2005 University of Maryland
Copyright (C) 2005, University of Maryland
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2007-2008 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2012 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2013 Timothy Wall, All Rights Reserved
Copyright (c) 2007, 2013 Timothy Wall, Markus Karg, All Rights Reserved
Copyright (c) 2007-2015 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2007 Olivier Chafik
Copyright (c) 2007 Olivier Chafik, All Rights Reserved
Copyright (c) 2007 Timothy Wall, All Rights Reserved
Copyright (c) 2007 Wayne Meissner, All Rights Reserved
Copyright (c) 2008 - 2013 Oracle Corporation. All rights reserved.
```

```
Copyright (c) 2008 - 2014 Oracle Corporation. All rights reserved.
Copyright (c) 2008 - 2015 Oracle Corporation. All rights reserved.
Copyright (c) 2008 - 2017 Oracle Corporation. All rights reserved.
Copyright (c) 2008, Red Hat Middleware LLC or third-party contributors as
Copyright (c) 2008 Timothy Wall, All Rights Reserved
Copyright (C) 2008, University of Maryland
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2009 Timothy Wall, All Rights Reserved
Copyright (c) 2010,2011 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2010, 2013 Daniel Doubrovkine, Markus Karg, All Rights
 Reserved
Copyright (c) 2010-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2010 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2010 EugineLev, All Rights Reserved
Copyright (c) 2010 Timothy Wall, All Rights Reserved
Copyright (c) 2011-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011 - 2013 Oracle Corporation. All rights reserved.
Copyright (c) 2011 - 2015 Oracle Corporation. All rights reserved.
Copyright (c) 2011-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011 - 2017 Oracle Corporation. All rights reserved.
Copyright (c) 2011 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2011 Denis Tulskiy
Copyright (c) 2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2011 Timothy Wall, All Rights Reserved
Copyright (C) 2011 University of Maryland
Copyright (c) 2012, 2013, 2014 Gil Tene
Copyright (c) 2012-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka <miki.tebeka@gmail.com>.
Copyright (c) 2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012 Timothy Wall, All Rights Reserved
Copyright (c) 2012 Tobias Wolf, All Rights Reserved
Copyright (C) 2013, 2014 Brett Wooldridge
Copyright (C) 2013,2014 Brett Wooldridge
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (c) 2013-2014 Oracle and/or its affiliates. All rights reserved.
Copyright (C) 2013, 2017 Brett Wooldridge
Copyright (c) 2013-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (C) 2013, 2019 Brett Wooldridge
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (C) 2013 Brett Wooldridge
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013 Oracle Corporation. All rights reserved.
Copyright (c) 2013 Ralf Hamberger, Markus Karg, All Rights Reserved
Copyright (c) 2013 Tobias Wolf, All Rights Reserved
Copyright (c) 2014-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (C) 2014 Brett Wooldridge
Copyright (c) 2014 Dr David H. Akehurst (itemis), All Rights Reserved
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Reinhard Pointner, All Rights Reserved
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015 Adam Marcionek, All Rights Reserved
Copyright (c) 2015 Andreas "PAX" L\u00FCck, All Rights Reserved
Copyright (C) 2015 Brett Wooldridge
```

```
Copyright (c) 2015 Daniel Widdis
Copyright (c) 2015 Goldstein Lyor, 2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2015 Goldstein Lyor, All Rights Reserved
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Michael Freeman, All Rights Reserved
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Adam Marcionek, All Rights Reserved
Copyright (C) 2016 Brett Wooldridge
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Minoru Sakamoto, All Rights Reserved
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (C) 2017 Brett Wooldridge
Copyright (c) 2017 Daniel Widdis, All Rights Reserved
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017 Oracle Corporation. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2018,2020,2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2018, 2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2018 Daniel Widdis, All Rights Reserved
Copyright (c) 2018 Matthias BlÃ¤sing
Copyright (c) 2018 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2018 Roshan Muralidharan, All Rights Reserved
Copyright (c) 2018 VÃ¡clav Haisman, All Rights Reserved
Copyright (c) 2019, 2021 Daniel Widdis
Copyright (C) 2019 Brett Wooldridge
Copyright (c) 2019 Daniel Widdis
Copyright (c) 2019 Daniel Widdis, All Rights Reserved
Copyright (c) 2019 Keve MÃ¼ller
Copyright (c) 2019 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2020 Daniel Widdis, All Rights Reserved
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) 2020 TorbjÃ¶rn Svensson, All Rights Reserved
Copyright (c) 2021, Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2022 Daniel Widdis, All Rights Reserved
Copyright (c) Microsoft Corporation
Copyright (c) Microsoft Corporation.
Copyright &copy; 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
Copyright (C) <year> <name of author>
Copyright (C) year name of author
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
org.jboss:jandex

SPDX:Apache-2.0

== Copyright
  Copyright 2013,2020 Red Hat, Inc., and individual contributors
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
org.jboss.logging:jboss-logging

SPDX:Apache-2.0

== Copyright
Copyright ${project.inceptionYear} - ${current.year} ${copyright.holder}
Copyright &#169; 1995-2002 eBay Inc. All Rights Reserved.
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.
Copyright 2001-2023 Â© MetaStuff, Ltd. and DOM4J contributors. All Rights
 Reserved.
Copyright 2002-2004 Apache Software Foundation.
Copyright 2003-2012 The Apache Software Foundation
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 Digital Rapids Corp.
Copyright 2010 Google Inc. The comments and initialization of {@code
 REPLACEMENT_CHARS} came
Copyright 2010 The Go Authors.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012-2019 the original author or authors.
Copyright 2012 Andrew Wang (andrew@umbrant.com)
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2012 The Netty Project
Copyright 2013 Red Hat, Inc., and individual contributors
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2013 The Netty Project
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 - 2020 Rafael Winterhalter
Copyright 2014 gRPC authors.
Copyright 2014 Martin Steiger
Copyright 2014 - Present Rafael Winterhalter
Copyright 2014 Red Hat, Inc., and individual contributors
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors.  All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 Pivotal Software, Inc.
Copyright 2017 The Go Authors. All right reserved.
```

```
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2017 The Netty Project
Copyright 2017 VMware, Inc.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 VMware, Inc.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/template
\"\n\t\"golang.org/x/tools/internal/lsp/diff\"\n\t\"golang.org/x/tools/
internal/lsp/diff/difftest\"\n\t\"golang.org/x/tools/internal/span\"\n)\n"
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/internal/lsp/diff
\"\n\t\"golang.org/x/tools/internal/lsp/diff/difftest\"\n\t\"golang.org/x/
tools/internal/span\"\n)\n"
Copyright 2019 VMware, Inc.
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2020 VMware, Inc.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place,
 Suite 330, Boston, MA 02111-1307 USA
Copyright (c) 1997-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2014 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2015 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2016 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1997-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 1999-2004 The Apache Software Foundation.  All rights
Copyright (C) 1999-2020 Shigeru Chiba."
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Copyright (c) 2000-2011 INRIA, France Telecom
Copyright (c) 2001 - 2005 freebxml.org.  All rights reserved.
Copyright (C) 2003-2007 University of Maryland
Copyright (c) 2003-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2003-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2011 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2011 QOS.ch
Copyright (c) 2004-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2004-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (C) 2004 Bill Burke. All Rights Reserved.
Copyright (C) 2005-2006 University of Maryland
Copyright (C) 2005-2006, University of Maryland
Copyright (c) 2005-2011 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2005 Brian Goetz
Copyright (C) 2005 University of Maryland
Copyright (C) 2005, University of Maryland
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2006-2017 Oracle and/or its affiliates. All rights reserved.
```

```
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2007-2008 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2012 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2013 Timothy Wall, All Rights Reserved
Copyright (c) 2007, 2013 Timothy Wall, Markus Karg, All Rights Reserved
Copyright (c) 2007-2015 Timothy Wall, All Rights Reserved
Copyright (c) 2007-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2007 Olivier Chafik
Copyright (c) 2007 Olivier Chafik, All Rights Reserved
Copyright (c) 2007 Timothy Wall, All Rights Reserved
Copyright (c) 2007 Wayne Meissner, All Rights Reserved
Copyright (c) 2008 - 2013 Oracle Corporation. All rights reserved.
Copyright (c) 2008 - 2014 Oracle Corporation. All rights reserved.
Copyright (c) 2008 - 2015 Oracle Corporation. All rights reserved.
Copyright (c) 2008 - 2017 Oracle Corporation. All rights reserved.
Copyright (c) 2008, Red Hat Middleware LLC or third-party contributors as
Copyright (c) 2008 Timothy Wall, All Rights Reserved
Copyright (C) 2008, University of Maryland
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2009 Timothy Wall, All Rights Reserved
Copyright (c) 2010,2011 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2010, 2013 Daniel Doubrovkine, Markus Karg, All Rights
 Reserved
Copyright (c) 2010-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2010 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2010 EugineLev, All Rights Reserved
Copyright (c) 2010 Timothy Wall, All Rights Reserved
Copyright (c) 2011-2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011 - 2013 Oracle Corporation. All rights reserved.
Copyright (c) 2011 - 2015 Oracle Corporation. All rights reserved.
Copyright (c) 2011-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2011 - 2017 Oracle Corporation. All rights reserved.
Copyright (c) 2011 Daniel Doubrovkine, All Rights Reserved
Copyright (c) 2011 Denis Tulskiy
Copyright (c) 2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2011 Timothy Wall, All Rights Reserved
Copyright (C) 2011 University of Maryland
Copyright (c) 2012, 2013, 2014 Gil Tene
Copyright (c) 2012-2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka <miki.tebeka@gmail.com>.
Copyright (c) 2012 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012 Timothy Wall, All Rights Reserved
Copyright (c) 2012 Tobias Wolf, All Rights Reserved
Copyright (C) 2013, 2014 Brett Wooldridge
Copyright (C) 2013,2014 Brett Wooldridge
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (c) 2013-2014 Oracle and/or its affiliates. All rights reserved.
Copyright (C) 2013, 2017 Brett Wooldridge
Copyright (c) 2013-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (C) 2013, 2019 Brett Wooldridge
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (C) 2013 Brett Wooldridge
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2013 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2013 Oracle Corporation. All rights reserved.
Copyright (c) 2013 Ralf Hamberger, Markus Karg, All Rights Reserved
Copyright (c) 2013 Tobias Wolf, All Rights Reserved
```

```
Copyright (c) 2014-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (C) 2014 Brett Wooldridge
Copyright (c) 2014 Dr David H. Akehurst (itemis), All Rights Reserved
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Reinhard Pointner, All Rights Reserved
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015-2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2015 Adam Marcionek, All Rights Reserved
Copyright (c) 2015 Andreas "PAX" L\u00FCck, All Rights Reserved
Copyright (C) 2015 Brett Wooldridge
Copyright (c) 2015 Daniel Widdis
Copyright (c) 2015 Goldstein Lyor, 2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2015 Goldstein Lyor, All Rights Reserved
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Michael Freeman, All Rights Reserved
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Adam Marcionek, All Rights Reserved
Copyright (C) 2016 Brett Wooldridge
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Minoru Sakamoto, All Rights Reserved
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017-2018 Oracle and/or its affiliates. All rights reserved.
Copyright (C) 2017 Brett Wooldridge
Copyright (c) 2017 Daniel Widdis, All Rights Reserved
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) 2017 Oracle Corporation. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2018,2020,2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2018, 2021 Daniel Widdis, All Rights Reserved
Copyright (c) 2018 Daniel Widdis, All Rights Reserved
Copyright (c) 2018 Matthias BlÃ¤sing
Copyright (c) 2018 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2018 Roshan Muralidharan, All Rights Reserved
Copyright (c) 2018 VÃ¡clav Haisman, All Rights Reserved
Copyright (c) 2019, 2021 Daniel Widdis
Copyright (C) 2019 Brett Wooldridge
Copyright (c) 2019 Daniel Widdis
Copyright (c) 2019 Daniel Widdis, All Rights Reserved
Copyright (c) 2019 Keve MÃ¼ller
Copyright (c) 2019 Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2020 Daniel Widdis, All Rights Reserved
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) 2020 TorbjÃ¶rn Svensson, All Rights Reserved
Copyright (c) 2021, Matthias BlÃ¤sing, All Rights Reserved
Copyright (c) 2022 Daniel Widdis, All Rights Reserved
Copyright (c) Microsoft Corporation
Copyright (c) Microsoft Corporation.
Copyright &copy; 2017 Oracle and/or its affiliates. All rights reserved.
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
Copyright (C) <year> <name of author>
Copyright (C) year name of author
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
org.jboss.logging:jboss-logging-annotations

SPDX:Apache-2.0

== Copyright
Copyright 2010 Red Hat, Inc. and individual contributors as indicated by the
 @author tags.

---------------------------------- (separator)
 -----------------------------------

== Dependency
org.jboss.spec.javax.transaction:jboss-transaction-api_1.2_spec

SPDX:CDDL1.0
SPDX:GPL-2.0 WITH Classpath-exception-2.0

== Copyright
Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place,
 Suite 330, Boston, MA 02111-1307 USA
Copyright (C) year name of author
Copyright (c) 2011 Oracle and/or its affiliates. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
org.jvnet.staxex:stax-ex

SPDX:CDDL-1.1

== Copyright
Copyright (c) 2017 Oracle and/or its affiliates. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
org.slf4j:slf4j-api

SPDX:MIT

== Copyright
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

---------------------------------- (separator)
 -----------------------------------

------------------------------------ Licenses
 ------------------------------------
SPDX:Apache-2.0

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
 grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free, irrevocable copyright license to reproduce, prepare Derivative Works
```

```
 of, publicly display, publicly perform, sublicense, and distribute the Work
 and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
 grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free, irrevocable (except as stated in this section) patent license to make,
 have made, use, offer to sell, sell, import, and otherwise transfer the
 Work, where such license applies only to those patent claims licensable by
 such Contributor that are necessarily infringed by their Contribution(s)
 alone or by combination of their Contribution(s) with the Work to which
 such Contribution(s) was submitted. If You institute patent litigation
 against any entity (including a cross-claim or counterclaim in a lawsuit)
 alleging that the Work or a Contribution incorporated within the Work
 constitutes direct or contributory patent infringement, then any patent
 licenses granted to You under this License for that Work shall terminate as
 of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof in any medium, with or without modifications, and in Source or
 Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted for inclusion in the Work by You to the Licensor shall be under
 the terms and conditions of this License, without any additional terms or
 conditions. Notwithstanding the above, nothing herein shall supersede or
 modify the terms of any separate license agreement you may have executed
 with Licensor regarding such Contributions.

6. Trademarks.
```

```
This License does not grant permission to use the trade names, trademarks,
 service marks, or product names of the Licensor, except as required for
 reasonable and customary use in describing the origin of the Work and
 reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the Work (and each Contributor provides its Contributions) on an "AS IS"
 BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied, including, without limitation, any warranties or conditions of
 TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR
 PURPOSE. You are solely responsible for determining the appropriateness of
 using or redistributing the Work and assume any risks associated with Your
 exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence), contract, or otherwise, unless required by applicable law
 (such as deliberate and grossly negligent acts) or agreed to in writing,
 shall any Contributor be liable to You for damages, including any direct,
 indirect, special, incidental, or consequential damages of any character
 arising as a result of this License or out of the use or inability to use
 the Work (including but not limited to damages for loss of goodwill, work
 stoppage, computer failure or malfunction, or any and all other commercial
 damages or losses), even if such Contributor has been advised of the
 possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
 offer, and charge a fee for, acceptance of support, warranty, indemnity,
 or other liability obligations and/or rights consistent with this License.
 However, in accepting such obligations, You may act only on Your own behalf
 and on Your sole responsibility, not on behalf of any other Contributor,
 and only if You agree to indemnify, defend, and hold each Contributor
 harmless for any liability incurred by, or claims asserted against, such
 Contributor by reason of your accepting any such warranty or additional
 liability.

END OF TERMS AND CONDITIONS


---------------------------------- (separator)
 -----------------------------------
SPDX:CDDL-1.0
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)
Version 1.0

1. Definitions.
1.1. "Contributor" means each individual or entity that creates or
 contributes to the creation of Modifications.
1.2. "Contributor Version" means the combination of the Original Software,
 prior Modifications used by a Contributor (if any), and the Modifications
 made by that particular Contributor.
1.3. "Covered Software" means (a) the Original Software, or (b)
 Modifications, or (c) the combination of files containing Original Software
 with files containing Modifications, in each case including portions
 thereof.
1.4. "Executable" means the Covered Software in any form other than Source
 Code.
1.5. "Initial Developer" means the individual or entity that first makes
 Original Software available under this License.
```

```
1.6. "Larger Work" means a work which combines Covered Software or portions
 thereof with code not governed by the terms of this License.
1.7. "License" means this document.
1.8. "Licensable" means having the right to grant, to the maximum extent
 possible, whether at the time of the initial grant or subsequently
 acquired, any and all of the rights conveyed herein.
1.9. "Modifications" means the Source Code and Executable form of any of the
 following:
A. Any file that results from an addition to, deletion from or modification
 of the contents of a file containing Original Software or previous
 Modifications;
B. Any new file that contains any part of the Original Software or previous
 Modification; or
C. Any new file that is contributed or otherwise made available under the
 terms of this License.
1.10. "Original Software" means the Source Code and Executable form of
 computer software code that is originally released under this License.
1.11. "Patent Claims" means any patent claim(s), now owned or hereafter
 acquired, including without limitation, method, process, and apparatus
 claims, in any patent Licensable by grantor.
1.12. "Source Code" means (a) the common form of computer software code in
 which modifications are made and (b) associated documentation included in
 or with such code.
1.13. "You" (or "Your") means an individual or a legal entity exercising
 rights under, and complying with all of the terms of, this License. For
 legal entities, "You" includes any entity which controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 "control" means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants.
2.1. The Initial Developer Grant.
Conditioned upon Your compliance with Section 3.1 below and subject to third
 party intellectual property claims, the Initial Developer hereby grants You
 a world-wide, royalty-free, non-exclusive license:
(a) under intellectual property rights (other than patent or trademark)
 Licensable by Initial Developer, to use, reproduce, modify, display,
 perform, sublicense and distribute the Original Software (or portions
 thereof), with or without Modifications, and/or as part of a Larger Work;
 and
(b) under Patent Claims infringed by the making, using or selling of
 Original Software, to make, have made, use, practice, sell, and offer
 for sale, and/or otherwise dispose of the Original Software (or portions
 thereof).
(c) The licenses granted in Sections 2.1(a) and (b) are effective on the
 date Initial Developer first distributes or otherwise makes the Original
 Software available to a third party under the terms of this License.
(d) Notwithstanding Section 2.1(b) above, no patent license is granted:
 (1) for code that You delete from the Original Software, or (2) for
 infringements caused by: (i) the modification of the Original Software,
 or (ii) the combination of the Original Software with other software or
 devices.
2.2. Contributor Grant.
Conditioned upon Your compliance with Section 3.1 below and subject to third
 party intellectual property claims, each Contributor hereby grants You a
 world-wide, royalty-free, non-exclusive license:
(a) under intellectual property rights (other than patent or trademark)
 Licensable by Contributor to use, reproduce, modify, display, perform,
 sublicense and distribute the Modifications created by such Contributor (or
 portions thereof), either on an unmodified basis, with other Modifications,
 as Covered Software and/or as part of a Larger Work; and
(b) under Patent Claims infringed by the making, using, or selling of
 Modifications made by that Contributor either alone and/or in combination
```

```
 with its Contributor Version (or portions of such combination), to make,
 use, sell, offer for sale, have made, and/or otherwise dispose of: (1)
 Modifications made by that Contributor (or portions thereof); and (2) the
 combination of Modifications made by that Contributor with its Contributor
 Version (or portions of such combination).
(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the
 date Contributor first distributes or otherwise makes the Modifications
 available to a third party.
(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1)
 for any code that Contributor has deleted from the Contributor Version; (2)
 for infringements caused by: (i) third party modifications of Contributor
 Version, or (ii) the combination of Modifications made by that Contributor
 with other software (except as part of the Contributor Version) or other
 devices; or (3) under Patent Claims infringed by Covered Software in the
 absence of Modifications made by that Contributor.
3. Distribution Obligations.
3.1. Availability of Source Code.
Any Covered Software that You distribute or otherwise make available in
 Executable form must also be made available in Source Code form and that
 Source Code form must be distributed only under the terms of this License.
 You must include a copy of this License with every copy of the Source Code
 form of the Covered Software You distribute or otherwise make available.
 You must inform recipients of any such Covered Software in Executable form
 as to how they can obtain such Covered Software in Source Code form in
 a reasonable manner on or through a medium customarily used for software
 exchange.
3.2. Modifications.
The Modifications that You create or to which You contribute are governed
 by the terms of this License. You represent that You believe Your
 Modifications are Your original creation(s) and/or You have sufficient
 rights to grant the rights conveyed by this License.
3.3. Required Notices.
You must include a notice in each of Your Modifications that identifies
 You as the Contributor of the Modification. You may not remove or alter
 any copyright, patent or trademark notices contained within the Covered
 Software, or any notices of licensing or any descriptive text giving
 attribution to any Contributor or the Initial Developer.
3.4. Application of Additional Terms.
You may not offer or impose any terms on any Covered Software in Source Code
 form that alters or restricts the applicable version of this License or the
 recipients' rights hereunder. You may choose to offer, and to charge a fee
 for, warranty, support, indemnity or liability obligations to one or more
 recipients of Covered Software. However, you may do so only on Your own
 behalf, and not on behalf of the Initial Developer or any Contributor. You
 must make it absolutely clear that any such warranty, support, indemnity
 or liability obligation is offered by You alone, and You hereby agree to
 indemnify the Initial Developer and every Contributor for any liability
 incurred by the Initial Developer or such Contributor as a result of
 warranty, support, indemnity or liability terms You offer.
3.5. Distribution of Executable Versions.
You may distribute the Executable form of the Covered Software under the
 terms of this License or under the terms of a license of Your choice, which
 may contain terms different from this License, provided that You are in
 compliance with the terms of this License and that the license for the
 Executable form does not attempt to limit or alter the recipient's rights
 in the Source Code form from the rights set forth in this License. If
 You distribute the Covered Software in Executable form under a different
 license, You must make it absolutely clear that any terms which differ
 from this License are offered by You alone, not by the Initial Developer or
 Contributor. You hereby agree to indemnify the Initial Developer and every
 Contributor for any liability incurred by the Initial Developer or such
 Contributor as a result of any such terms You offer.
3.6. Larger Works.
```

```
You may create a Larger Work by combining Covered Software with other code
 not governed by the terms of this License and distribute the Larger Work
 as a single product. In such a case, You must make sure the requirements of
 this License are fulfilled for the Covered Software.
4. Versions of the License.
4.1. New Versions.
Sun Microsystems, Inc. is the initial license steward and may publish
 revised and/or new versions of this License from time to time. Each version
 will be given a distinguishing version number. Except as provided in
 Section 4.3, no one other than the license steward has the right to modify
 this License.
4.2. Effect of New Versions.
You may always continue to use, distribute or otherwise make the Covered
 Software available under the terms of the version of the License under
 which You originally received the Covered Software. If the Initial
 Developer includes a notice in the Original Software prohibiting it from
 being distributed or otherwise made available under any subsequent version
 of the License, You must distribute and make the Covered Software available
 under the terms of the version of the License under which You originally
 received the Covered Software. Otherwise, You may also choose to use,
 distribute or otherwise make the Covered Software available under the terms
 of any subsequent version of the License published by the license steward.
4.3. Modified Versions.
When You are an Initial Developer and You want to create a new license for
 Your Original Software, You may create and use a modified version of this
 License if You: (a) rename the license and remove any references to the
 name of the license steward (except to note that the license differs from
 this License); and (b) otherwise make it clear that the license contains
 terms which differ from this License.
5. DISCLAIMER OF WARRANTY.
COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT
 WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT
 LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS,
 MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE
 RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH
 YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT
 THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
 NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
 CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED
 SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.
6.1. This License and the rights granted hereunder will terminate
 automatically if You fail to comply with terms herein and fail to cure such
 breach within 30 days of becoming aware of the breach. Provisions which, by
 their nature, must remain in effect beyond the termination of this License
 shall survive.
6.2. If You assert a patent infringement claim (excluding declaratory
 judgment actions) against Initial Developer or a Contributor (the Initial
 Developer or Contributor against whom You assert such claim is referred
 to as "Participant") alleging that the Participant Software (meaning the
 Contributor Version where the Participant is a Contributor or the Original
 Software where the Participant is the Initial Developer) directly or
 indirectly infringes any patent, then any and all rights granted directly
 or indirectly to You by such Participant, the Initial Developer (if the
 Initial Developer is not the Participant) and all Contributors under
 Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from
 Participant terminate prospectively and automatically at the expiration
 of such 60 day notice period, unless if within such 60 day period You
 withdraw Your claim with respect to the Participant Software against such
 Participant either unilaterally or pursuant to a written agreement with
 Participant.
6.3. In the event of termination under Sections 6.1 or 6.2 above, all end
 user licenses that have been validly granted by You or any distributor
```

```
 hereunder prior to termination (excluding licenses granted to You by any
 distributor) shall survive termination.
7. LIMITATION OF LIABILITY.
UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING
 NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY
 OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER
 OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL,
 INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
 LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE,
 COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES
 OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY
 OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY
 FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE
 EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT
 ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES,
 SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.
The Covered Software is a "commercial item," as that term is defined in 48
 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as
 that term is defined at 48 C.F.R. Â§ 252.227-7014(a)(1)) and "commercial
 computer software documentation" as such terms are used in 48 C.F.R. 12.212
 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
 through 227.7202-4 (June 1995), all U.S. Government End Users acquire
 Covered Software with only those rights set forth herein. This U.S.
 Government Rights clause is in lieu of, and supersedes, any other FAR,
 DFAR, or other clause or provision that addresses Government rights in
 computer software under this License.

9. MISCELLANEOUS.
This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. This License shall be governed by the law of the jurisdiction
 specified in a notice contained within the Original Software (except to
 the extent applicable law, if any, provides otherwise), excluding such
 jurisdiction's conflict-of-law provisions. Any litigation relating to this
 License shall be subject to the jurisdiction of the courts located in the
 jurisdiction and venue specified in a notice contained within the Original
 Software, with the losing party responsible for costs, including, without
 limitation, court costs and reasonable attorneys' fees and expenses.
 The application of the United Nations Convention on Contracts for the
 International Sale of Goods is expressly excluded. Any law or regulation
 which provides that the language of a contract shall be construed against
 the drafter shall not apply to this License. You agree that You alone are
 responsible for compliance with the United States export administration
 regulations (and the export control laws and regulation of any other
 countries) when You use, distribute or otherwise make available any Covered
 Software.

10. RESPONSIBILITY FOR CLAIMS.
As between Initial Developer and the Contributors, each party is responsible
 for claims and damages arising, directly or indirectly, out of its
 utilization of rights under this License and You agree to work with
 Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.


---------------------------------- (separator)
 -----------------------------------
SPDX:CDDL-1.1

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)
```

```
Version 1.1

1. Definitions.
1.1. "Contributor" means each individual or entity that creates or
 contributes to the creation of Modifications.
1.2. "Contributor Version" means the combination of the Original Software,
 prior Modifications used by a Contributor (if any), and the Modifications
 made by that particular Contributor.
1.3. "Covered Software" means (a) the Original Software, or (b)
 Modifications, or (c) the combination of files containing Original Software
 with files containing Modifications, in each case including portions
 thereof.
1.4. "Executable" means the Covered Software in any form other than Source
 Code.
1.5. "Initial Developer" means the individual or entity that first makes
 Original Software available under this License.
1.6. "Larger Work" means a work which combines Covered Software or portions
 thereof with code not governed by the terms of this License.
1.7. "License" means this document.
1.8. "Licensable" means having the right to grant, to the maximum extent
 possible, whether at the time of the initial grant or subsequently
 acquired, any and all of the rights conveyed herein.
1.9. "Modifications" means the Source Code and Executable form of any of the
 following:
A. Any file that results from an addition to, deletion from or modification
 of the contents of a file containing Original Software or previous
 Modifications;
B. Any new file that contains any part of the Original Software or previous
 Modification; or
C. Any new file that is contributed or otherwise made available under the
 terms of this License.
1.10. "Original Software" means the Source Code and Executable form of
 computer software code that is originally released under this License.
1.11. "Patent Claims" means any patent claim(s), now owned or hereafter
 acquired, including without limitation, method, process, and apparatus
 claims, in any patent Licensable by grantor.
1.12. "Source Code" means (a) the common form of computer software code in
 which modifications are made and (b) associated documentation included in
 or with such code.
1.13. "You" (or "Your") means an individual or a legal entity exercising
 rights under, and complying with all of the terms of, this License. For
 legal entities, "You" includes any entity which controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 "control" means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.
2. License Grants.
2.1. The Initial Developer Grant.
Conditioned upon Your compliance with Section 3.1 below and subject to third
 party intellectual property claims, the Initial Developer hereby grants You
 a world-wide, royalty-free, non-exclusive license:
(a) under intellectual property rights (other than patent or trademark)
 Licensable by Initial Developer, to use, reproduce, modify, display,
 perform, sublicense and distribute the Original Software (or portions
 thereof), with or without Modifications, and/or as part of a Larger Work;
 and
(b) under Patent Claims infringed by the making, using or selling of
 Original Software, to make, have made, use, practice, sell, and offer
 for sale, and/or otherwise dispose of the Original Software (or portions
 thereof).
(c) The licenses granted in Sections 2.1(a) and (b) are effective on the
 date Initial Developer first distributes or otherwise makes the Original
 Software available to a third party under the terms of this License.
```

```
(d) Notwithstanding Section 2.1(b) above, no patent license is granted:
 (1) for code that You delete from the Original Software, or (2) for
 infringements caused by: (i) the modification of the Original Software,
 or (ii) the combination of the Original Software with other software or
 devices.
2.2. Contributor Grant.
Conditioned upon Your compliance with Section 3.1 below and subject to third
 party intellectual property claims, each Contributor hereby grants You a
 world-wide, royalty-free, non-exclusive license:
(a) under intellectual property rights (other than patent or trademark)
 Licensable by Contributor to use, reproduce, modify, display, perform,
 sublicense and distribute the Modifications created by such Contributor (or
 portions thereof), either on an unmodified basis, with other Modifications,
 as Covered Software and/or as part of a Larger Work; and
(b) under Patent Claims infringed by the making, using, or selling of
 Modifications made by that Contributor either alone and/or in combination
 with its Contributor Version (or portions of such combination), to make,
 use, sell, offer for sale, have made, and/or otherwise dispose of: (1)
 Modifications made by that Contributor (or portions thereof); and (2) the
 combination of Modifications made by that Contributor with its Contributor
 Version (or portions of such combination).
(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the
 date Contributor first distributes or otherwise makes the Modifications
 available to a third party.
(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1)
 for any code that Contributor has deleted from the Contributor Version; (2)
 for infringements caused by: (i) third party modifications of Contributor
 Version, or (ii) the combination of Modifications made by that Contributor
 with other software (except as part of the Contributor Version) or other
 devices; or (3) under Patent Claims infringed by Covered Software in the
 absence of Modifications made by that Contributor.
3. Distribution Obligations.
3.1. Availability of Source Code.
Any Covered Software that You distribute or otherwise make available in
 Executable form must also be made available in Source Code form and that
 Source Code form must be distributed only under the terms of this License.
 You must include a copy of this License with every copy of the Source Code
 form of the Covered Software You distribute or otherwise make available.
 You must inform recipients of any such Covered Software in Executable form
 as to how they can obtain such Covered Software in Source Code form in
 a reasonable manner on or through a medium customarily used for software
 exchange.
3.2. Modifications.
The Modifications that You create or to which You contribute are governed
 by the terms of this License. You represent that You believe Your
 Modifications are Your original creation(s) and/or You have sufficient
 rights to grant the rights conveyed by this License.
3.3. Required Notices.
You must include a notice in each of Your Modifications that identifies
 You as the Contributor of the Modification. You may not remove or alter
 any copyright, patent or trademark notices contained within the Covered
 Software, or any notices of licensing or any descriptive text giving
 attribution to any Contributor or the Initial Developer.
3.4. Application of Additional Terms.
You may not offer or impose any terms on any Covered Software in Source Code
 form that alters or restricts the applicable version of this License or the
 recipients' rights hereunder. You may choose to offer, and to charge a fee
 for, warranty, support, indemnity or liability obligations to one or more
 recipients of Covered Software. However, you may do so only on Your own
 behalf, and not on behalf of the Initial Developer or any Contributor. You
 must make it absolutely clear that any such warranty, support, indemnity
 or liability obligation is offered by You alone, and You hereby agree to
 indemnify the Initial Developer and every Contributor for any liability
```

```
 incurred by the Initial Developer or such Contributor as a result of
 warranty, support, indemnity or liability terms You offer.
3.5. Distribution of Executable Versions.
You may distribute the Executable form of the Covered Software under the
 terms of this License or under the terms of a license of Your choice, which
 may contain terms different from this License, provided that You are in
 compliance with the terms of this License and that the license for the
 Executable form does not attempt to limit or alter the recipient's rights
 in the Source Code form from the rights set forth in this License. If
 You distribute the Covered Software in Executable form under a different
 license, You must make it absolutely clear that any terms which differ
 from this License are offered by You alone, not by the Initial Developer or
 Contributor. You hereby agree to indemnify the Initial Developer and every
 Contributor for any liability incurred by the Initial Developer or such
 Contributor as a result of any such terms You offer.
3.6. Larger Works.
You may create a Larger Work by combining Covered Software with other code
 not governed by the terms of this License and distribute the Larger Work
 as a single product. In such a case, You must make sure the requirements of
 this License are fulfilled for the Covered Software.
4. Versions of the License.
4.1. New Versions.
Oracle is the initial license steward and may publish revised and/or new
 versions of this License from time to time. Each version will be given a
 distinguishing version number. Except as provided in Section 4.3, no one
 other than the license steward has the right to modify this License.
4.2. Effect of New Versions.
You may always continue to use, distribute or otherwise make the Covered
 Software available under the terms of the version of the License under
 which You originally received the Covered Software. If the Initial
 Developer includes a notice in the Original Software prohibiting it from
 being distributed or otherwise made available under any subsequent version
 of the License, You must distribute and make the Covered Software available
 under the terms of the version of the License under which You originally
 received the Covered Software. Otherwise, You may also choose to use,
 distribute or otherwise make the Covered Software available under the terms
 of any subsequent version of the License published by the license steward.
4.3. Modified Versions.
When You are an Initial Developer and You want to create a new license for
 Your Original Software, You may create and use a modified version of this
 License if You: (a) rename the license and remove any references to the
 name of the license steward (except to note that the license differs from
 this License); and (b) otherwise make it clear that the license contains
 terms which differ from this License.
5. DISCLAIMER OF WARRANTY.
COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT
 WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT
 LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS,
 MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE
 RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH
 YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT
 THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
 NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
 CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED
 SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.
6.1. This License and the rights granted hereunder will terminate
 automatically if You fail to comply with terms herein and fail to cure such
 breach within 30 days of becoming aware of the breach. Provisions which, by
 their nature, must remain in effect beyond the termination of this License
 shall survive.
6.2. If You assert a patent infringement claim (excluding declaratory
 judgment actions) against Initial Developer or a Contributor (the Initial
```

```
 Developer or Contributor against whom You assert such claim is referred
 to as "Participant") alleging that the Participant Software (meaning the
 Contributor Version where the Participant is a Contributor or the Original
 Software where the Participant is the Initial Developer) directly or
 indirectly infringes any patent, then any and all rights granted directly
 or indirectly to You by such Participant, the Initial Developer (if the
 Initial Developer is not the Participant) and all Contributors under
 Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from
 Participant terminate prospectively and automatically at the expiration
 of such 60 day notice period, unless if within such 60 day period You
 withdraw Your claim with respect to the Participant Software against such
 Participant either unilaterally or pursuant to a written agreement with
 Participant.
6.3. If You assert a patent infringement claim against Participant alleging
 that the Participant Software directly or indirectly infringes any patent
 where such claim is resolved (such as by license or settlement) prior to
 the initiation of patent infringement litigation, then the reasonable value
 of the licenses granted by such Participant under Sections 2.1 or 2.2 shall
 be taken into account in determining the amount or value of any payment or
 license.
6.4. In the event of termination under Sections 6.1 or 6.2 above, all end
 user licenses that have been validly granted by You or any distributor
 hereunder prior to termination (excluding licenses granted to You by any
 distributor) shall survive termination.
7. LIMITATION OF LIABILITY.
UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING
 NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER,
 ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY
 SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT,
 SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING,
 WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
 FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES,
 EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH
 DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR
 DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE
 EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT
 ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES,
 SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.
The Covered Software is a "commercial item," as that term is defined in 48
 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as
 that term is defined at 48 C.F.R. Â§ 252.227-7014(a)(1)) and "commercial
 computer software documentation" as such terms are used in 48 C.F.R. 12.212
 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
 through 227.7202-4 (June 1995), all U.S. Government End Users acquire
 Covered Software with only those rights set forth herein. This U.S.
 Government Rights clause is in lieu of, and supersedes, any other FAR,
 DFAR, or other clause or provision that addresses Government rights in
 computer software under this License.

9. MISCELLANEOUS.
This License represents the complete agreement concerning subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. This License shall be governed by the law of the jurisdiction
 specified in a notice contained within the Original Software (except to
 the extent applicable law, if any, provides otherwise), excluding such
 jurisdiction's conflict-of-law provisions. Any litigation relating to this
 License shall be subject to the jurisdiction of the courts located in the
 jurisdiction and venue specified in a notice contained within the Original
 Software, with the losing party responsible for costs, including, without
 limitation, court costs and reasonable attorneys' fees and expenses.
 The application of the United Nations Convention on Contracts for the
```

```
 International Sale of Goods is expressly excluded. Any law or regulation
 which provides that the language of a contract shall be construed against
 the drafter shall not apply to this License. You agree that You alone are
 responsible for compliance with the United States export administration
 regulations (and the export control laws and regulation of any other
 countries) when You use, distribute or otherwise make available any Covered
 Software.

10. RESPONSIBILITY FOR CLAIMS.
As between Initial Developer and the Contributors, each party is responsible
 for claims and damages arising, directly or indirectly, out of its
 utilization of rights under this License and You agree to work with
 Initial Developer and Contributors to distribute such responsibility
 on an equitable basis. Nothing herein is intended or shall be deemed to
 constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
 LICENSE (CDDL)
The code released under the CDDL shall be governed by the laws of the
 State of California (excluding conflict-of-law provisions). Any litigation
 relating to this License shall be subject to the jurisdiction of the
 Federal Courts of the Northern District of California and the state
 courts of the State of California, with venue lying in Santa Clara County,
 California.

---------------------------------- (separator)
 -----------------------------------
SPDX:EPL-1.0
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
```

```
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:

a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
```

against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

```
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.

---------------------------------- (separator)
 -----------------------------------
SPDX:GPL-2.0 WITH Classpath-exception-2.0
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license
 document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom
 to share and change it. By contrast, the GNU General Public License is
 intended to guarantee your freedom to share and change free software--
to make sure the software is free for all its users. This General Public
 License applies to most of the Free Software Foundation's software and
 to any other program whose authors commit to using it. (Some other Free
 Software Foundation software is covered by the GNU Lesser General Public
 License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
 General Public Licenses are designed to make sure that you have the freedom
 to distribute copies of free software (and charge for this service if you
 wish), that you receive source code or can get it if you want it, that you
 can change the software or use pieces of it in new free programs; and that
 you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
 to deny you these rights or to ask you to surrender the rights. These
 restrictions translate to certain responsibilities for you if you
 distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or
 for a fee, you must give the recipients all the rights that you have. You
 must make sure that they, too, receive or can get the source code. And you
 must show them these terms so they know their rights.
```

```
We protect your rights with two steps: (1) copyright the software, and (2)
 offer you this license which gives you legal permission to copy, distribute
 and/or modify the software.

Also, for each author's protection and ours, we want to make certain that
 everyone understands that there is no warranty for this free software.
 If the software is modified by someone else and passed on, we want its
 recipients to know that what they have is not the original, so that any
 problems introduced by others will not reflect on the original authors'
 reputations.

Finally, any free program is threatened constantly by software patents.
 We wish to avoid the danger that redistributors of a free program
 will individually obtain patent licenses, in effect making the program
 proprietary. To prevent this, we have made it clear that any patent must be
 licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
 follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
 placed by the copyright holder saying it may be distributed under the
 terms of this General Public License. The "Program", below, refers to any
 such program or work, and a "work based on the Program" means either the
 Program or any derivative work under copyright law: that is to say, a
 work containing the Program or a portion of it, either verbatim or with
 modifications and/or translated into another language. (Hereinafter,
 translation is included without limitation in the term "modification".)
 Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running the Program
 is not restricted, and the output from the Program is covered only if its
 contents constitute a work based on the Program (independent of having
 been made by running the Program). Whether that is true depends on what the
 Program does.

1. You may copy and distribute verbatim copies of the Program's source
 code as you receive it, in any medium, provided that you conspicuously
 and appropriately publish on each copy an appropriate copyright notice
 and disclaimer of warranty; keep intact all the notices that refer to this
 License and to the absence of any warranty; and give any other recipients
 of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it,
 thus forming a work based on the Program, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:
a) You must cause the modified files to carry prominent notices stating that
 you changed the files and the date of any change.
b) You must cause any work that you distribute or publish, that in whole or
 in part contains or is derived from the Program or any part thereof, to be
 licensed as a whole at no charge to all third parties under the terms of
 this License.
c) If the modified program normally reads commands interactively when
 run, you must cause it, when started running for such interactive use in
 the most ordinary way, to print or display an announcement including an
 appropriate copyright notice and a notice that there is no warranty (or
 else, saying that you provide a warranty) and that users may redistribute
 the program under these conditions, and telling the user how to view a copy
```

```
 of this License. (Exception: if the Program itself is interactive but does
 not normally print such an announcement, your work based on the Program is
 not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Program, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Program, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Program.

In addition, mere aggregation of another work not based on the Program with
 the Program (or with a work based on the Program) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may copy and distribute the Program (or a work based on it, under
 Section 2) in object code or executable form under the terms of Sections 1
 and 2 above provided that you also do one of the following:
a) Accompany it with the complete corresponding machine-readable source
 code, which must be distributed under the terms of Sections 1 and 2 above
 on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to
 give any third party, for a charge no more than your cost of physically
 performing source distribution, a complete machine-readable copy of the
 corresponding source code, to be distributed under the terms of Sections 1
 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to
 distribute corresponding source code. (This alternative is allowed only for
 noncommercial distribution and only if you received the program in object
 code or executable form with such an offer, in accord with Subsection b
 above.)
The source code for a work means the preferred form of the work for making
 modifications to it. For an executable work, complete source code means all
 the source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the executable. However, as a special exception, the source
 code distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to
 copy from a designated place, then offering equivalent access to copy the
 source code from the same place counts as distribution of the source code,
 even though third parties are not compelled to copy the source along with
 the object code.

4. You may not copy, modify, sublicense, or distribute the Program except
 as expressly provided under this License. Any attempt otherwise to
 copy, modify, sublicense or distribute the Program is void, and will
 automatically terminate your rights under this License. However, parties
 who have received copies, or rights, from you under this License will
 not have their licenses terminated so long as such parties remain in full
 compliance.
5. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
```

```
 the Program or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Program (or any work based on the Program), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Program or works based on it.
6. Each time you redistribute the Program (or any work based on the
 Program), the recipient automatically receives a license from the original
 licensor to copy, distribute or modify the Program subject to these
 terms and conditions. You may not impose any further restrictions on the
 recipients' exercise of the rights granted herein. You are not responsible
 for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Program at all. For example, if a patent license would not permit
 royalty-free redistribution of the Program by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Program.
If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system, which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Program under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.
9. The Free Software Foundation may publish revised and/or new versions
 of the General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.
Each version is given a distinguishing version number. If the Program
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Program does not specify a version number
 of this License, you may choose any version ever published by the Free
 Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
 whose distribution conditions are different, write to the author to ask
 for permission. For software which is copyrighted by the Free Software
 Foundation, write to the Free Software Foundation; we sometimes make
 exceptions for this. Our decision will be guided by the two goals of
```

```
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.
NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
 PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
 use to the public, the best way to achieve this is to make it free software
 which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
 attach them to the start of each source file to most effectively convey the
 exclusion of warranty; and each file should have at least the "copyright"
 line and a pointer to where the full notice is found.

<one line to give the program's name and an idea of what it does.>
Copyright (C) < yyyy> <name of author>

This program is free software; you can redistribute it and/or modify it
 under the terms of the GNU General Public License as published by the Free
 Software Foundation; either version 2 of the License, or (at your option)
 any later version.

This program is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
 more details.

You should have received a copy of the GNU General Public License along
 with this program; if not, write to the Free Software Foundation, Inc., 51
 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when
 it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision
 comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free
 software, and you are welcome to redistribute it under certain conditions;
 type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
 parts of the General Public License. Of course, the commands you use may
```

```
 be called something other than `show w' and `show c'; they could even be
 mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
 school, if any, to sign a "copyright disclaimer" for the program, if
 necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon >, 1 April 1989 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
 proprietary programs. If your program is a subroutine library, you may
 consider it more useful to permit linking proprietary applications with the
 library. If this is what you want to do, use the GNU Lesser General Public
 License instead of this License.

Class Path Exception

Linking this library statically or dynamically with other modules is making
 a combined work based on this library. Thus, the terms and conditions of
 the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you
 permission to link this library with independent modules to produce an
 executable, regardless of the license terms of these independent modules,
 and to copy and distribute the resulting executable under terms of your
 choice, provided that you also meet, for each linked independent module,
 the terms and conditions of the license of that module. An independent
 module is a module which is not derived from or based on this library. If
 you modify this library, you may extend this exception to your version of
 the library, but you are not obligated to do so. If you do not wish to do
 so, delete this exception statement from your version.

---------------------------------- (separator)
 -----------------------------------
SPDX:LGPL-2.1
GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license
 document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the
 successor of the GNU Library Public License, version 2, hence the version
 number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
```

```
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
```

```
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".
A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.
```

```
2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:
a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that
 you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all
 third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of
 data to be supplied by an application program that uses the facility, other
 than as an argument passed when the facility is invoked, then you must make
 a good faith effort to ensure that, in the event an application does not
 supply such function or table, the facility still operates, and performs
 whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose
 that is entirely well-defined independent of the application. Therefore,
 Subsection 2d requires that any application-supplied function or table used
 by this function must be optional: if the application does not supply it,
 the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.
If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
```

```
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.
However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.
You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A
 suitable mechanism is one that (1) uses at run time a copy of the library
 already present on the user's computer system, rather than copying library
 functions into the executable, and (2) will operate properly with a
 modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
```

```
c) Accompany the work with a written offer, valid for at least three years,
 to give the same user the materials specified in Subsection 6a, above, for
 a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
e) Verify that the user has already received a copy of these materials or
 that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:
a) Accompany the combined library with a copy of the same work based on
 the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part
 of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.
9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.
10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.
11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
```

```
 both it and this License would be to refrain entirely from distribution of
 the Library.
If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.
13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.
Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.
NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.
16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
```

```
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible
 use to the public, we recommend making it free software that everyone can
 redistribute and change. You can do so by permitting redistribution under
 these terms (or, alternatively, under the terms of the ordinary General
 Public License).

To apply these terms, attach the following notices to the library. It is
 safest to attach them to the start of each source file to most effectively
 convey the exclusion of warranty; and each file should have at least the
 "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and an idea of what it does. >
Copyright (C) <year > <name of author >

This library is free software; you can redistribute it and/or modify it
 under the terms of the GNU Lesser General Public License as published by
 the Free Software Foundation; either version 2.1 of the License, or (at
 your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License
 for more details.

You should have received a copy of the GNU Lesser General Public License
 along with this library; if not, write to the Free Software Foundation,
 Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Also add
 information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
 school, if any, to sign a "copyright disclaimer" for the library, if
 necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in
the library `Frob' (a library for tweaking knobs) written
by James Random Hacker.

<signature of Ty Coon >, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

--------------------------------- (separator)
 -----------------------------------
SPDX:MIT
Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next
 paragraph) shall be included in all copies or substantial portions of the
 Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Red Hat, Inc. / Component(s): Kubernetes & OpenShift Java Client 4.13.1

```
Copyright (C) 2015 Red Hat, Inc.
    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at
            http://www.apache.org/licenses/LICENSE-2.0
    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
```

```
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.
_____________________________
com.fasterxml.jackson.core:jackson-annotations:2.11.2
Copyright 2012 FasterXML.com


_____________________________
com.fasterxml.jackson.core:jackson-core:2.11.2
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.
## Licensing
Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).
## Credits
A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at http://www.apache.org/licenses/LICENSE-2.0
_____________________________
com.fasterxml.jackson.core:jackson-databind:2.11.2
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.
## Licensing
Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).
## Credits
A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at http://www.apache.org/licenses/LICENSE-2.0
_____________________________
com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:2.11.2
#  Copyright 2012 FasterXML.com
#
#  Licensed under the Apache License, Version 2.0 (the "License");
#  you may not use this file except in compliance with the License.
#  You may obtain a copy of the License at
#
#  http://www.apache.org/licenses/LICENSE-2.0
#
#  Unless required by applicable law or agreed to in writing, software
#  distributed under the License is distributed on an "AS IS" BASIS,
#  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
#  See the License for the specific language governing permissions and
#  limitations under the License.
com.fasterxml.jackson.dataformat.javaprop.JavaPropsFactory
Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at http://www.apache.org/licenses/LICENSE-2.0
_____________________________
com.fasterxml.jackson.module:jackson-module-jaxb-annotations:2.11.2
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.
## Licensing
Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).
## Credits
A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at http://www.apache.org/licenses/LICENSE-2.0
_____________________________
com.github.mifmif:generex:1.0.2
/*
 * Copyright 2014 y.mifrah
 *
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
_____________________________
com.squareup.okhttp3:logging-interceptor:3.12.12
/*
 * Copyright (C) 2014 Square, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

```
____________________________
com.squareup.okhttp3:okhttp:3.12.12
/*
 * Copyright (C) 2014 Square, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
com.squareup.okio:okio:1.15.0
/*
 * Copyright (C) 2014 Square, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
dk.brics.automaton:automaton:1.11-8
/*
 * dk.brics.automaton
 *
 * Copyright (c) 2001-2017 Anders Moeller
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 *    derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
```

```
____________________________
io.fabric8:kubernetes-client:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-admissionregistration:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-apiextensions:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-apps:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
```

```
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-autoscaling:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-batch:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-certificates:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-common:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
```

```
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-coordination:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-core:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-discovery:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-events:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
```

```
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-extensions:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-metrics:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-networking:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
```

```
io.fabric8:kubernetes-model-node:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-policy:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-rbac:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-scheduling:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-settings:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:kubernetes-model-storageclass:4.13.1
/**
 * Copyright (C) 2015 Red Hat, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
io.fabric8:zjsonpatch:0.3.0
/**
 * Copyright 2016 flipkart.com zjsonpatch.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *         http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
____________________________
org.slf4j:slf4j-api:1.7.30
Copyright (c) 2004-2017 QOS.ch
All rights reserved.
Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
```

```
the following conditions:
The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.
THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
___________________________
org.yaml:snakeyaml:1.26
/**
 * Copyright (c) 2008, http://www.snakeyaml.org
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Provider: Red Hat, Inc. / Component(s): Kubernetes & OpenShift Java Client 4.0.5

```
kubernetes-client 4.0.5
COPYRIGHT: copyright (C) 2015 Red Hat, Inc.

LICENSE:
                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.


=====================================================================
4P Dependencies:


io.fabric8.kubernetes-model; Version: 3.0.2
COPYRIGHT: Copyright (C) 2011 - 2015 Red Hat, Inc.
LICENSE: Apache License, Version 2.0 https://github.com/fabric8io/
kubernetes-model/blob/master/header.txt

---
com.fasterxml.jackson.module:
jackson-module-jaxb-annotations (upgraded compile dependency from 2.7.5 to
 2.9.6)
jackson-core (upgraded compile dependency from 2.7.5 to 2.9.5)
```

```
jackson-annotations (upgraded compile dependency from 2.7.0 to 2.9.5)
jackson-databind (upgraded compile dependency from 2.7.5 to 2.9.5)
COPYRIGHT: Tatu Saloranta 2007
LICENSE: Apache License, Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0

---
com.squareup.okhttp3.okhttp; Version: 3.9.1
COPYRIGHT: Copyright (C) 2013 - 2018 Square, Inc.
LICENSE: Apache License, Version 2.0 https://github.com/square/okhttp/blob/
parent-3.9.1/LICENSE.txt

---
com.squareup.okio; Version 1.13.0
COPYRIGHT: Copyright (C) 2013 - 2018 Square, Inc.
LICENSE: Apache License, Version 2.0 https://github.com/square/okio/blob/
okio-parent-1.13.0/LICENSE.txt


---
com.squareup.okhttp3.logging-interceptor; Version: 3.9.1
COPYRIGHT: Copyright (C) 2013 - 2018 Square, Inc.
LICENSE: Apache License, Version 2.0, https://github.com/square/okhttp/blob/
parent-3.9.1/LICENSE.txt


---
org.slf4j.jul-to-slf4j; Version: 1.7.13
org.slf4j.slf4j-api; Version: 1.7.13
LICENSE and COPYRIGHT:
Copyright (c) 2004-2014 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---
io.fabric8.zjsonpatch; Version: 0.3.0
COPYRIGHT: Copyright 2016 flipkart.com zjsonpatch
License: Apache License, Version 2.0 https://github.com/fabric8io/
zjsonpatch/blob/v0.3.0/LICENSE


---
com.fasterxml.jackson.core jackson-databind (upgraded compile dependency
 from 2.3.2 to 2.9.5)
```

```
com.fasterxml.jackson.core jackson-core (upgraded compile dependency from
 2.3.2 to 2.9.5)
COPYRIGHT: Tatu Saloranta 2007
LICENSE: Apache License, Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0


---
com.github.mifmif.generex; Version: 1.0.1
COPYRIGHT: Copyright 2014 - 2015 y.mifrah
License: Apache License, Version 2.0 https://github.com/mifmif/Generex/blob/
master/README.md



---
Component: dk.brics.automaton.automaton; Version: 1.11-8
COPYRIGHT:
dk.brics.automaton
------------------

Copyright (C) 2001-2017 Anders Moeller

This source code in this package may be used under the terms of the
BSD license.  Please read the file 'COPYING' for details.

This package contains a full DFA/NFA implementation with Unicode
alphabet and support for all standard regular expression operations.

For more information, go to the package home page at
http://www.brics.dk/automaton/
Anders Moeller
amoeller@cs.au.dk


LICENSE: (COPYING FILE)
Copyright (c) 2001-2017 Anders Moeller
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==================================================
END OF DEPENDENCIES
```

Provider: Red Hat, Inc. / Component(s): Kubernetes & OpenShift Java Client 4.1.0

```
kubernetes-client 4.0.5
COPYRIGHT: copyright (C) 2015 Red Hat, Inc.

LICENSE:
                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.


------------------------------------------------------------------------
4P Dependencies:


io.fabric8.kubernetes-model; Version: 3.0.2
COPYRIGHT: Copyright (C) 2011 - 2015 Red Hat, Inc.
LICENSE: Apache License, Version 2.0 https://github.com/fabric8io/
kubernetes-model/blob/master/header.txt

---
com.fasterxml.jackson.module:
jackson-module-jaxb-annotations (upgraded compile dependency from 2.7.5 to
 2.9.6)
jackson-core (upgraded compile dependency from 2.7.5 to 2.9.5)
jackson-annotations (upgraded compile dependency from 2.7.0 to 2.9.5)
jackson-databind (upgraded compile dependency from 2.7.5 to 2.9.5)
COPYRIGHT: Tatu Saloranta 2007
LICENSE: Apache License, Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0

---
com.squareup.okhttp3.okhttp; Version: 3.9.1
COPYRIGHT: Copyright (C) 2013 - 2018 Square, Inc.
LICENSE: Apache License, Version 2.0 https://github.com/square/okhttp/blob/
parent-3.9.1/LICENSE.txt

---
com.squareup.okio; Version 1.13.0
COPYRIGHT: Copyright (C) 2013 - 2018 Square, Inc.
LICENSE: Apache License, Version 2.0 https://github.com/square/okio/blob/
okio-parent-1.13.0/LICENSE.txt


---
com.squareup.okhttp3.logging-interceptor; Version: 3.9.1
COPYRIGHT: Copyright (C) 2013 - 2018 Square, Inc.
LICENSE: Apache License, Version 2.0, https://github.com/square/okhttp/blob/
parent-3.9.1/LICENSE.txt


---
org.slf4j.jul-to-slf4j; Version: 1.7.13
org.slf4j.slf4j-api; Version: 1.7.13
```

```
LICENSE and COPYRIGHT:
Copyright (c) 2004-2014 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---
io.fabric8.zjsonpatch; Version: 0.3.0
COPYRIGHT: Copyright 2016 flipkart.com zjsonpatch
License: Apache License, Version 2.0 https://github.com/fabric8io/
zjsonpatch/blob/v0.3.0/LICENSE


---
com.fasterxml.jackson.core jackson-databind (upgraded compile dependency
 from 2.3.2 to 2.9.5)
com.fasterxml.jackson.core jackson-core (upgraded compile dependency from
 2.3.2 to 2.9.5)
COPYRIGHT: Tatu Saloranta 2007
LICENSE: Apache License, Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0


---
com.github.mifmif.generex; Version: 1.0.1
COPYRIGHT: Copyright 2014 - 2015 y.mifrah
License: Apache License, Version 2.0 https://github.com/mifmif/Generex/blob/
master/README.md



---
Component: dk.brics.automaton.automaton; Version: 1.11-8
COPYRIGHT:
dk.brics.automaton
------------------

Copyright (C) 2001-2017 Anders Moeller

This source code in this package may be used under the terms of the
BSD license.  Please read the file 'COPYING' for details.

This package contains a full DFA/NFA implementation with Unicode
alphabet and support for all standard regular expression operations.

For more information, go to the package home page at
```

```
http://www.brics.dk/automaton/
Anders Moeller
amoeller@cs.au.dk


LICENSE: (COPYING FILE)
Copyright (c) 2001-2017 Anders Moeller
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------
END OF DEPENDENCIES
```

Provider: Red Hat, Inc. / Component(s): Kubernetes & OpenShift Java Client 4.6.4

```
kubernetes-client 4.1.0
COPYRIGHT: copyright (C) 2015 Red Hat, Inc.

LICENSE:
                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
```

```
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.


=========================================================================
4P Dependencies:


io.fabric8.kubernetes-model; Version: 4.1.0
COPYRIGHT: Copyright (C) 2011 - 2015 Red Hat, Inc.
LICENSE: Apache License, Version 2.0 https://github.com/fabric8io/
kubernetes-model/blob/master/header.txt
```

```
---
com.fasterxml.jackson.module:
jackson-dataformat-yaml (upgraded compile dependency from 2.7.7 to 2.9.7)
jackson-core (upgraded compile dependency from 2.7.7 to 2.9.7)
jackson-annotations (upgraded compile dependency from 2.7.0 to 2.9.7)
jackson-databind (upgraded compile dependency from 2.7.5 to 2.9.7)
COPYRIGHT: Tatu Saloranta 2007
LICENSE: Apache License, Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0

---
com.squareup.okhttp3.okhttp; Version: 3.9.1
COPYRIGHT: Copyright (C) 2013 - 2018 Square, Inc.
LICENSE: Apache License, Version 2.0 https://github.com/square/okhttp/blob/
parent-3.9.1/LICENSE.txt

---
com.squareup.okio; Version 1.13.0
COPYRIGHT: Copyright (C) 2013 - 2018 Square, Inc.
LICENSE: Apache License, Version 2.0 https://github.com/square/okio/blob/
okio-parent-1.13.0/LICENSE.txt


---
com.squareup.okhttp3.logging-interceptor; Version: 3.9.1
COPYRIGHT: Copyright (C) 2013 - 2018 Square, Inc.
LICENSE: Apache License, Version 2.0, https://github.com/square/okhttp/blob/
parent-3.9.1/LICENSE.txt


---
org.slf4j.jul-to-slf4j; Version: 1.7.13
org.slf4j.slf4j-api; Version: 1.7.13
LICENSE and COPYRIGHT:
Copyright (c) 2004-2014 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---
io.fabric8.zjsonpatch; Version: 0.3.0
COPYRIGHT: Copyright 2016 flipkart.com zjsonpatch
License: Apache License, Version 2.0 https://github.com/fabric8io/
zjsonpatch/blob/v0.3.0/LICENSE
```

```
---
com.fasterxml.jackson.core jackson-databind (upgraded compile dependency
 from 2.3.2 to 2.9.7)
com.fasterxml.jackson.core jackson-core (upgraded compile dependency from
 2.3.2 to 2.9.7)
COPYRIGHT: Tatu Saloranta 2007
LICENSE: Apache License, Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0


---
com.github.mifmif.generex; Version: 1.0.1
COPYRIGHT: Copyright 2014 - 2015 y.mifrah
License: Apache License, Version 2.0 https://github.com/mifmif/Generex/blob/
master/README.md



---
Component: dk.brics.automaton.automaton; Version: 1.11-8
COPYRIGHT:
dk.brics.automaton
------------------

Copyright (C) 2001-2017 Anders Moeller

This source code in this package may be used under the terms of the
BSD license.  Please read the file 'COPYING' for details.

This package contains a full DFA/NFA implementation with Unicode
alphabet and support for all standard regular expression operations.

For more information, go to the package home page at
http://www.brics.dk/automaton/
Anders Moeller
amoeller@cs.au.dk


LICENSE: (COPYING FILE)
Copyright (c) 2001-2017 Anders Moeller
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
==================================================
END OF DEPENDENCIES
```

Provider: Redgate Software Ltd / Component(s): flyway-core 8.5.11

```
Copyright: RedGate Software Ltd
License: Apache 2.0
=== Source URL:  https://github.com/flyway/flyway/tree/flyway-8.5.11/flyway-
core

 ./LICENSE

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
```

```
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
```

```
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
```

```
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.
```

```
   Copyright © Red Gate Software Ltd 2010-2022

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------

 ./LICENSE.txt

Copyright (C) Red Gate Software Ltd 2010-2022

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

        http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-------------- Separator --------------



 === Entry created by OSCS on 2022-08-19T07:27:22.940
```

Provider: RedHat, Inc., JBoss community / Component(s): Bean Validation API 2.0.1.Final

```
URL for License - http://www.apache.org/licenses/LICENSE-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
```

```
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
```

```
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
```

```
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: HOW TO APPLY THE APACHE LICENSE TO YOUR WORK
To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: RedHat, Inc., JBoss community / Component(s): RESTEasy 3.6.3.Final

Provider: Regents of the University of California / Component(s): Jay 9ffc59a

```
Copyright (c) 1989 The Regents of the University of California.
All rights reserved.

This code is derived from software contributed to Berkeley by Robert Paul
 Corbett.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
   must display the following acknowledgement:
This product includes software developed by the University of
California, Berkeley and its contributors.
```

```
4. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
```

Provider: Regents of the University of California / Component(s): ZipPy 0.25

```
Copyright (c) Regents of the University of California and individual
 contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. Neither the name of ZipPy nor the names of its contributors may be
 used
       to endorse or promote products derived from this software without
       specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: rejas / Component(s): modernizr 3.8.0

```
modernizr v3.8.0
================
```

```
TOP-LEVEL LICENSE:  MIT
-----------------
Modernizr is available under the MIT license:
MIT License

    Copyright © 2009-2018
    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:
    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.
    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.

https://modernizr.com/license/

*******************************************************************************

FOURTH PARTY DEPENDENCIES
-------------------------

LIBRARY NAME        LICENSE TYPE (see license text below): Copyright
------------        ----------------------------------------------
ansi-regex@4.1.0    MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
ansi-styles@3.2.1   MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
argparse@1.0.10     MIT:  Copyright (C) 2012 by Vitaly Puzrin
camelcase@5.3.1     MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
cliui@5.0.0         ISC:  Copyright (c) 2015, Contributors [contributors
 listed in github:
                          greenkeeperio-bot, bcoe, nexdrew, coreyfarrell,
 realityking,
maxrimue,
                          sbj42, TimAConner, MiniGod]
color-convert@1.9.3 MIT:  Copyright (c) 2011-2016 Heather Arthur
 <fayearthur@gmail.com>
color-name@1.1.3    MIT:  Copyright (c) 2015 Dmitry Ivanov
decamelize@1.2.0    MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
doctrine@3.0.0      Apache-2.0:  No copyright found
```

```
emoji-regex@7.0.3   MIT:  Copyright Mathias Bynens <https://
mathiasbynens.be/>
entities@2.0.0      BSD-2-Clause:
Copyright (c) Felix Böhm
All rights reserved.

esutils@2.0.3       BSD-2-Clause:  Copyright (C) 2013 Yusuke Suzuki
 (twitter:
@Constellation) and other contributors.
file@0.2.2          MIT:  Copyright (c) 2012 Anders Conbere
find-up@3.0.0       MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
get-caller-file@2.0.5  ISC:  ISC License (ISC) Copyright 2018 Stefan Penner
is-fullwidth-code-point@2.0.0  MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
linkify-it@2.2.0    MIT:  Copyright (c) 2015 Vitaly Puzrin.
locate-path@3.0.0   MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
lodash@4.17.15      MIT:
Copyright OpenJS Foundation and other contributors <https://openjsf.org/>

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors <http://
underscorejs.org/>

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/lodash/lodash

markdown-it@10.0.0  MIT:  Copyright (c) 2014 Vitaly Puzrin, Alex Kocharin.
mdurl@1.0.1         MIT:  Copyright (c) 2015 Vitaly Puzrin, Alex Kocharin.
minimist@0.0.8      MIT:  No copyright found
mkdirp@0.5.1        MIT:  Copyright 2010 James Halliday (mail@substack.net)
p-limit@2.2.1       MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
p-locate@3.0.0      MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
p-try@2.2.0         MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
path-exists@3.0.0   MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
require-directory@2.1.1  MIT:  Copyright (c) 2011 Troy Goode
 <troygoode@gmail.com>
require-main-filename@2.0.0  ISC:  Copyright (c) 2016, Contributors
 [contributors listed
in github:
                                   greenkeeper[bot], bcoe,
 wtgtybhertgeghgtwtg, nexdrew]
requirejs@2.3.6     MIT:  Copyright jQuery Foundation and other
 contributors,
https://jquery.org/
set-blocking@2.0.0  ISC:  Copyright (c) 2016, Contributors [contributors
 listed in github:
                          bcoe, JaKXz, maxrimue, Fishrock123]
sprintf-js@1.0.3    BSD-3-Clause:
Copyright (c) 2007-2014, Alexandru Marasteanu <hello [at) alexei (dot] ro>
All rights reserved.
```

```
string-width@3.1.0  MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
strip-ansi@5.2.0    MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
uc.micro@1.0.6      MIT:  Copyright Mathias Bynens <https://
mathiasbynens.be/>
which-module@2.0.0  ISC:  Copyright (c) 2016, Contributors [contributors
 listed in github:
                          greenkeeper[bot], nexdrew, greenkeeperio-bot]
wrap-ansi@5.1.0     MIT:  Copyright (c) Sindre Sorhus
 <sindresorhus@gmail.com>
(sindresorhus.com)
y18n@4.0.0          ISC:  Copyright (c) 2015, Contributors [contributors
 listed in github:
                          greenkeeper-bot, nexdrew, greenkeeper[bot],
 maxrimue, zkat,
JamesKyburz]
yargs-parser@15.0.0 ISC:  Copyright (c) 2016, Contributors [37 contributors
 listed in
github]
yargs@14.2.0        MIT:
Copyright 2010 James Halliday (mail@substack.net)
Modified work Copyright 2014 Contributors (ben@npmjs.com)


--------------------------------------------------------------------------------

MIT
---
Copyright <YEAR> <COPYRIGHT HOLDER>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do so, subject to the following
 conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Apache-2.0
```

```
----------
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as
defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that
is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that
control, are controlled by, or are under common control with that entity.
 For the purposes
of this definition, "control" means (i) the power, direct or indirect, to
 cause the
direction or management of such entity, whether by contract or otherwise, or
 (ii)
ownership of fifty percent (50%) or more of the outstanding shares, or (iii)
 beneficial
ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted
by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not
limited to software source code, documentation source, and configuration
 files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation
of a Source form, including but not limited to compiled object code,
 generated
documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available
under the License, as indicated by a copyright notice that is included in or
 attached to
the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on
(or derived from) the Work and for which the editorial revisions,
 annotations,
elaborations, or other modifications represent, as a whole, an original work
 of
authorship. For the purposes of this License, Derivative Works shall not
 include works
that remain separable from, or merely link (or bind by name) to the
 interfaces of, the
Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the
```

```
Work and any modifications or additions to that Work or Derivative Works
 thereof, that is
intentionally submitted to Licensor for inclusion in the Work by the
 copyright owner or by
an individual or Legal Entity authorized to submit on behalf of the
 copyright owner. For
the purposes of this definition, "submitted" means any form of electronic,
 verbal, or
written communication sent to the Licensor or its representatives, including
 but not
limited to communication on electronic mailing lists, source code control
 systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for the purpose
of discussing and improving the Work, but excluding communication that is
 conspicuously
marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf of whom a
Contribution has been received by Licensor and subsequently incorporated
 within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
 grants to You
a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable
 copyright
license to reproduce, prepare Derivative Works of, publicly display,
 publicly perform,
sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
 grants to You
a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable
 (except as
stated in this section) patent license to make, have made, use, offer to
 sell, sell,
import, and otherwise transfer the Work, where such license applies only to
 those patent
claims licensable by such Contributor that are necessarily infringed by
 their
Contribution(s) alone or by combination of their Contribution(s) with the
 Work to which
such Contribution(s) was submitted. If You institute patent litigation
 against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
 Work or a
Contribution incorporated within the Work constitutes direct or contributory
 patent
infringement, then any patent licenses granted to You under this License for
 that Work
shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof in any
```

```
medium, with or without modifications, and in Source or Object form,
 provided that You
meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this
License; and
    You must cause any modified files to carry prominent notices stating
 that You changed
the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all
copyright, patent, trademark, and attribution notices from the Source form
 of the
Work, excluding those notices that do not pertain to any part of the
 Derivative Works;
and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any
Derivative Works that You distribute must include a readable copy of the
 attribution
notices contained within such NOTICE file, excluding those notices that do
 not pertain
to any part of the Derivative Works, in at least one of the following
 places: within a
NOTICE text file distributed as part of the Derivative Works; within the
 Source form
or documentation, if provided along with the Derivative Works; or, within a
 display
generated by the Derivative Works, if and wherever such third-party notices
 normally
appear. The contents of the NOTICE file are for informational purposes only
 and do not
modify the License. You may add Your own attribution notices within
 Derivative Works
that You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
 modifying the
License.

You may add Your own copyright statement to Your modifications and may
 provide additional
or different license terms and conditions for use, reproduction, or
 distribution of Your
modifications, or for any such Derivative Works as a whole, provided Your
 use,
reproduction, and distribution of the Work otherwise complies with the
 conditions stated
in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted for
inclusion in the Work by You to the Licensor shall be under the terms and
 conditions of
this License, without any additional terms or conditions. Notwithstanding
 the above,
nothing herein shall supersede or modify the terms of any separate license
 agreement you
may have executed with Licensor regarding such Contributions.

6. Trademarks.
```

```
This License does not grant permission to use the trade names, trademarks,
 service marks,
or product names of the Licensor, except as required for reasonable and
 customary use in
describing the origin of the Work and reproducing the content of the NOTICE
 file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the Work (and
each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied, including, without
 limitation, any
warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or
 FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
 appropriateness of
using or redistributing the Work and assume any risks associated with Your
 exercise of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence), contract,
or otherwise, unless required by applicable law (such as deliberate and
 grossly negligent
acts) or agreed to in writing, shall any Contributor be liable to You for
 damages,
including any direct, indirect, special, incidental, or consequential
 damages of any
character arising as a result of this License or out of the use or inability
 to use the
Work (including but not limited to damages for loss of goodwill, work
 stoppage, computer
failure or malfunction, or any and all other commercial damages or losses),
 even if such
Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
 offer, and
charge a fee for, acceptance of support, warranty, indemnity, or other
 liability
obligations and/or rights consistent with this License. However, in
 accepting such
obligations, You may act only on Your own behalf and on Your sole
 responsibility, not on
behalf of any other Contributor, and only if You agree to indemnify, defend,
 and hold each
Contributor harmless for any liability incurred by, or claims asserted
 against, such
Contributor by reason of your accepting any such warranty or additional
 liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work
```

```
    To apply the Apache License to your work, attach the following
 boilerplate notice,
with the fields enclosed by brackets "[]" replaced with your own
 identifying
information. (Don't include the brackets!) The text should be enclosed in
 the
appropriate comment syntax for the file format. We also recommend that a
 file or class
name and description of purpose be included on the same "printed page" as
 the
copyright notice for easier identification within third-party archives.

--------------------------------------------------------------------------------

BSD-2-Clause
------------
Copyright <YEAR> <COPYRIGHT HOLDER>

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of
conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of
conditions and the following disclaimer in the documentation and/or other
 materials
provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

BSD-3-Clause
------------
Copyright <YEAR> <COPYRIGHT HOLDER>

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of
conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright notice,
 this list of
conditions and the following disclaimer in the documentation and/or other
 materials
provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used
to endorse or promote products derived from this software without specific
 prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

ISC
---
Copyright <YEAR> <OWNER>

Permission to use, copy, modify, and/or distribute this software for any
 purpose with or
without fee is hereby granted, provided that the above copyright notice and
 this
permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH REGARD TO
THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS. IN NO EVENT
SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
 CONSEQUENTIAL DAMAGES OR
ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
 IN AN ACTION
OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
 CONNECTION WITH THE
USE OR PERFORMANCE OF THIS SOFTWARE.

--------------------------------------------------------------------------------
```

Provider: Remko Popma / Component(s): picocli 2.2.1

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Copyright info from source code:

/*
   Copyright 2017 Remko Popma

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
 */
```

Provider: Remko Popma / Component(s): picocli 3.8.0

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Copyright info from source code:

/*
   Copyright 2017 Remko Popma

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
 */
```

Provider: Reselect Contributors / Component(s): reselect 3.0.1

```
Copyright (c) 2015-2016 Reselect Contributors
---------separator---------
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
```

Provider: Rich Felker / Component(s): Musl-libc 1.1.24

```
musl as a whole is licensed under the following standard MIT license:

----------------------------------------------------------------------
Copyright © 2005-2019 Rich Felker, et al.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
----------------------------------------------------------------------

Authors/contributors include:

A. Wilcox
Alex Dowad
Alex Suykov
Alexander Monakov
Andre McCurdy
Andrew Kelley
Anthony G. Basile
Aric Belsito
Arvid Picciani
Bartosz Brachaczek
```

```
Benjamin Peterson
Bobby Bingham
Boris Brezillon
Brent Cook
Chris Spiegel
Clément Vasseur
Daniel Micay
Daniel Sabogal
Daurnimator
David Carlier
David Edelsohn
Denys Vlasenko
Dmitry Ivanov
Dmitry V. Levin
Drew DeVault
Emil Renner Berthing
Fangrui Song
Felix Fietkau
Felix Janda
Gianluca Anzolin
Hauke Mehrtens
He X
Hiltjo Posthuma
Isaac Dunham
Jaydeep Patil
Jens Gustedt
Jeremy Huntwork
Jo-Philipp Wich
Joakim Sindholt
John Spencer
Josiah Worcester
Julien Ramseier
Justin Cormack
Kaarle Ritvanen
Khem Raj
Kylie McClain
Leah Neukirchen
Luca Barbato
Luka Perkov
M Farkas-Dyck (Strake)
Mahesh Bodapati
Markus Wichmann
Masanori Ogino
Michael Clark
Michael Forney
Mikhail Kremnyov
Natanael Copa
Nicholas J. Kain
orc
Pascal Cuoq
Patrick Oppenlander
Petr Hosek
Petr Skocik
Pierre Carrier
Reini Urban
Rich Felker
Richard Pennington
Ryan Fairfax
Samuel Holland
Segev Finer
Shiz
sin
Solar Designer
Stefan Kristiansson
```

```
Stefan O'Rear
Szabolcs Nagy
Timo Teräs
Trutz Behn
Valentin Ochs
Will Dietz
William Haddon
William Pitcock

Portions of this software are derived from third-party works licensed
under terms compatible with the above MIT license:

The TRE regular expression implementation (src/regex/reg* and
src/regex/tre*) is Copyright © 2001-2008 Ville Laurikari and licensed
under a 2-clause BSD license (license text in the source files). The
included version has been heavily modified by Rich Felker in 2012, in
the interests of size, simplicity, and namespace cleanliness.

Much of the math library code (src/math/* and src/complex/*) is
Copyright © 1993,2004 Sun Microsystems or
Copyright © 2003-2011 David Schultz or
Copyright © 2003-2009 Steven G. Kargl or
Copyright © 2003-2009 Bruce D. Evans or
Copyright © 2008 Stephen L. Moshier or
Copyright © 2017-2018 Arm Limited
and labelled as such in comments in the individual source files. All
have been licensed under extremely permissive terms.

The ARM memcpy code (src/string/arm/memcpy_el.S) is Copyright © 2008
The Android Open Source Project and is licensed under a two-clause BSD
license. It was taken from Bionic libc, used on Android.

The implementation of DES for crypt (src/crypt/crypt_des.c) is
Copyright © 1994 David Burren. It is licensed under a BSD license.

The implementation of blowfish crypt (src/crypt/crypt_blowfish.c) was
originally written by Solar Designer and placed into the public
domain. The code also comes with a fallback permissive license for use
in jurisdictions that may not recognize the public domain.

The smoothsort implementation (src/stdlib/qsort.c) is Copyright © 2011
Valentin Ochs and is licensed under an MIT-style license.

The x86_64 port was written by Nicholas J. Kain and is licensed under
the standard MIT terms.

The mips and microblaze ports were originally written by Richard
Pennington for use in the ellcc project. The original code was adapted
by Rich Felker for build system and code conventions during upstream
integration. It is licensed under the standard MIT terms.

The mips64 port was contributed by Imagination Technologies and is
licensed under the standard MIT terms.

The powerpc port was also originally written by Richard Pennington,
and later supplemented and integrated by John Spencer. It is licensed
under the standard MIT terms.

All other files which have no copyright comments are original works
produced specifically for use as part of this library, written either
by Rich Felker, the main author of the library, or by one or more
contibutors listed above. Details on authorship of individual files
can be found in the git version control history of the project. The
omission of copyright and license comments in each file is in the
```

```
interest of source tree size.

In addition, permission is hereby granted for all public header files
(include/* and arch/*/bits/*) and crt files intended to be linked into
applications (crt/*, ldso/dlstart.c, and arch/*/crt_arch.h) to omit
the copyright notice and permission notice otherwise required by the
license, and to use these files without any requirement of
attribution. These files include substantial contributions from:

Bobby Bingham
John Spencer
Nicholas J. Kain
Rich Felker
Richard Pennington
Stefan Kristiansson
Szabolcs Nagy

all of whom have explicitly granted such permission.

This file previously contained text expressing a belief that most of
the files covered by the above exception were sufficiently trivial not
to be subject to copyright, resulting in confusion over whether it
negated the permissions granted in the license. In the spirit of
permissive licensing, and of not having licensing issues being an
obstacle to adoption, that text has been removed.
```

Provider: Rich Felker / Component(s): Musl-libc 1.2.2

```
musl as a whole is licensed under the following standard MIT license:

----------------------------------------------------------------------
Copyright © 2005-2019 Rich Felker, et al.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
----------------------------------------------------------------------

Authors/contributors include:

A. Wilcox
Alex Dowad
Alex Suykov
Alexander Monakov
Andre McCurdy
Andrew Kelley
Anthony G. Basile
```

```
Aric Belsito
Arvid Picciani
Bartosz Brachaczek
Benjamin Peterson
Bobby Bingham
Boris Brezillon
Brent Cook
Chris Spiegel
Clément Vasseur
Daniel Micay
Daniel Sabogal
Daurnimator
David Carlier
David Edelsohn
Denys Vlasenko
Dmitry Ivanov
Dmitry V. Levin
Drew DeVault
Emil Renner Berthing
Fangrui Song
Felix Fietkau
Felix Janda
Gianluca Anzolin
Hauke Mehrtens
He X
Hiltjo Posthuma
Isaac Dunham
Jaydeep Patil
Jens Gustedt
Jeremy Huntwork
Jo-Philipp Wich
Joakim Sindholt
John Spencer
Josiah Worcester
Julien Ramseier
Justin Cormack
Kaarle Ritvanen
Khem Raj
Kylie McClain
Leah Neukirchen
Luca Barbato
Luka Perkov
M Farkas-Dyck (Strake)
Mahesh Bodapati
Markus Wichmann
Masanori Ogino
Michael Clark
Michael Forney
Mikhail Kremnyov
Natanael Copa
Nicholas J. Kain
orc
Pascal Cuoq
Patrick Oppenlander
Petr Hosek
Petr Skocik
Pierre Carrier
Reini Urban
Rich Felker
Richard Pennington
Ryan Fairfax
Samuel Holland
Segev Finer
Shiz
```

```
sin
Solar Designer
Stefan Kristiansson
Stefan O'Rear
Szabolcs Nagy
Timo Teräs
Trutz Behn
Valentin Ochs
Will Dietz
William Haddon
William Pitcock

Portions of this software are derived from third-party works licensed
under terms compatible with the above MIT license:

The TRE regular expression implementation (src/regex/reg* and
src/regex/tre*) is Copyright © 2001-2008 Ville Laurikari and licensed
under a 2-clause BSD license (license text in the source files). The
included version has been heavily modified by Rich Felker in 2012, in
the interests of size, simplicity, and namespace cleanliness.

Much of the math library code (src/math/* and src/complex/*) is
Copyright © 1993,2004 Sun Microsystems or
Copyright © 2003-2011 David Schultz or
Copyright © 2003-2009 Steven G. Kargl or
Copyright © 2003-2009 Bruce D. Evans or
Copyright © 2008 Stephen L. Moshier or
Copyright © 2017-2018 Arm Limited
and labelled as such in comments in the individual source files. All
have been licensed under extremely permissive terms.

The ARM memcpy code (src/string/arm/memcpy_el.S) is Copyright © 2008
The Android Open Source Project and is licensed under a two-clause BSD
license. It was taken from Bionic libc, used on Android.

The implementation of DES for crypt (src/crypt/crypt_des.c) is
Copyright © 1994 David Burren. It is licensed under a BSD license.

The implementation of blowfish crypt (src/crypt/crypt_blowfish.c) was
originally written by Solar Designer and placed into the public
domain. The code also comes with a fallback permissive license for use
in jurisdictions that may not recognize the public domain.

The smoothsort implementation (src/stdlib/qsort.c) is Copyright © 2011
Valentin Ochs and is licensed under an MIT-style license.

The x86_64 port was written by Nicholas J. Kain and is licensed under
the standard MIT terms.

The mips and microblaze ports were originally written by Richard
Pennington for use in the ellcc project. The original code was adapted
by Rich Felker for build system and code conventions during upstream
integration. It is licensed under the standard MIT terms.

The mips64 port was contributed by Imagination Technologies and is
licensed under the standard MIT terms.

The powerpc port was also originally written by Richard Pennington,
and later supplemented and integrated by John Spencer. It is licensed
under the standard MIT terms.

All other files which have no copyright comments are original works
produced specifically for use as part of this library, written either
by Rich Felker, the main author of the library, or by one or more
```

```
contibutors listed above. Details on authorship of individual files
can be found in the git version control history of the project. The
omission of copyright and license comments in each file is in the
interest of source tree size.

In addition, permission is hereby granted for all public header files
(include/* and arch/*/bits/*) and crt files intended to be linked into
applications (crt/*, ldso/dlstart.c, and arch/*/crt_arch.h) to omit
the copyright notice and permission notice otherwise required by the
license, and to use these files without any requirement of
attribution. These files include substantial contributions from:

Bobby Bingham
John Spencer
Nicholas J. Kain
Rich Felker
Richard Pennington
Stefan Kristiansson
Szabolcs Nagy

all of whom have explicitly granted such permission.

This file previously contained text expressing a belief that most of
the files covered by the above exception were sufficiently trivial not
to be subject to copyright, resulting in confusion over whether it
negated the permissions granted in the license. In the spirit of
permissive licensing, and of not having licensing issues being an
obstacle to adoption, that text has been removed.
```

Provider: Rich Hickey / Component(s): clojure 1.7.0

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1. The following files are available in source code form under the Eclipse
 Public License at: http://www.oracle.com/technetwork/opensource/opensource-
code-1366576.html. (The EPL license is reproduced below).

2. All past Contributors to tools.nrepl disclaim all warranties and
 conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose. In addition, such
 Contributors are not liable for any damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.

3. Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4. {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5. {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement. Oracle is solely responsible for any representations and
 warranties contained therein.

Clojure
Copyright (c) Rich Hickey. All rights reserved.

Eclipse Public License -v 1.0
```

```
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
```

```
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
```

```
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
```

```
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Rich Hickey / Component(s): clojurescript 1.7.228

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1. The following files are available in source code form under the Eclipse
 Public License at: http://www.oracle.com/technetwork/opensource/opensource-
code-1366576.html. (The EPL license is reproduced below).

2. All past Contributors to clojurescript disclaim all warranties and
 conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose. In addition, such
 Contributors are not liable for any damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.

3. Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4. {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5. {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement. Oracle is solely responsible for any representations and
 warranties contained therein.
Copyright (c) Rich Hickey. All rights reserved. The use and
distribution terms for this software are covered by the Eclipse
Public License 1.0

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT’S ACCEPTANCE OF THIS AGREEMENT.
```

```
1. DEFINITIONS

"Contribution" means:


a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
 b) in the case of each subsequent Contributor:

i)changes to the Program, and

ii)additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor’s behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient’s responsibility to acquire that license before distributing
 the Program.
```

```
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:


a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:


a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
```

cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor’s responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient’s patent(s), then such Recipient’s rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient’s rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient’s rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient’s obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only

```
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Richard Moore / Component(s): AES-JS 3.1.2

```
Copyright (c) 2015 Richard Moore

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: RightTime, Inc. / Component(s): Mustache for Java 0.9.6

```
Copyright 2010 RightTime, Inc.


                              Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Rob Figueiredo / Component(s): cron 3.0.1

```
Copyright (C) 2012 Rob Figueiredo
All Rights Reserved.

MIT LICENSE

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Robert Kieffer and other contributors / Component(s): uuid 3.2.1

```
Copyright (c) 2010-2016 Robert Kieffer and other contributors
---------separator---------
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
---------separator---------
```

Provider: Robert Winkler and Bohdan Storozhuk / Component(s): resilience4j-all 2.2.0

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
```

```
   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=========================================================
Copyright 2020 Robert Winkler, Bohdan Storozhuk, Mahmoud Romeh, Dan Maas and
 others

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except in compliance with the License. You may obtain a copy
 of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.

=========================================================

****************************License for slf4j-api***************


Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
=================================================
```

Provider: Robert Winkler and Bohdan Storozhuk / Component(s): resilience4j-circuitbreaker 1.7.1

```
Apache License
```

```
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means  the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.
"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.
"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
```

```
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:
(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and
(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and
(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and
(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.
You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
```

```
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.
Copyright {yyyy} {name of copyright owner}
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------Dependencies----------
resilience4j-core
Copyright 2020: Robert Winkler
Apache 2.0
```

Provider: Robert Winkler, Bohdan Storozhuk, Mahmoud Romeh, Dan Maas and others / Component(s): resilience4j-core 2.1.0

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
```

```
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------
```

```
Copyright 2020 Robert Winkler, Bohdan Storozhuk, Mahmoud Romeh, Dan Maas and
 others

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except in compliance with the License. You may obtain a copy
 of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 License for the specific language governing permissions and limitations
 under the License.
```

Provider: Ronald Dehuysser / Component(s): JobRunr 5.3.1

```
************************************************************
***************** Copied from BA Public License *****************

------------------------------- Top-level license --------------------------
License
========
Copyright © 2019-2021 Ronald Dehuysser
JobRunr software is an open-source software that is multi-licensed under the
 terms of the licenses listed in this file. Recipients may choose the terms
 under which they are want to use or distribute the software, when all the
 preconditions of a chosen license are satisfied.

LGPL v3 License
---------------
This program is free software: you can redistribute it and/or modify it
 under the terms of the GNU Lesser General Public License as published by
 the Free Software Foundation, either version 3 of the License, or (at your
 option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License
 for more details.
Please see License-lgpl.md file for details.

Commercial License
------------------
Subject to the purchase of a corresponding subscription (see https://
www.jobrunr.io/en/pricing/), you may distribute JobRunr under the terms
 of commercial license, that allows you to distribute private forks and
 modifications. Please see License-standard.md and License-royaltyfree.md
 files for details.

GNU Lesser General Public License
=================================
Version 3, 29 June 2007_
Copyright © 2007 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies of this license
 document, but changing it is not allowed.
This version of the GNU Lesser General Public License incorporates the terms
 and conditions of version 3 of the GNU
General Public License, supplemented by the additional permissions listed
 below.
0. Additional Definitions
```

```
As used herein, â€œthis License refers to version 3 of the GNU Lesser
 General Public License, and the GNU GPL refers to
version 3 of the GNU General Public License.
The Library efers to a covered work governed by this License, other than an
 Application or a Combined Work as defined
below.
An Application is any work that makes use of an interface provided by the
 Library, but which is not otherwise based on
the Library. Defining a subclass of a class defined by the Library is deemed
 a mode of using an interface provided by
the Library.
A Combined Work is a work produced by combining or linking an Application
 with the Library. The particular version of
the Library with which the Combined Work was made is also called the Linked
 Version.
The Minimal Corresponding Source for a Combined Work means the Corresponding
 Source for the Combined Work, excluding
any source code for portions of the Combined Work that, considered in
 isolation, are based on the Application, and not
on the Linked Version.
The Corresponding Application Code for a Combined Work means the object code
 and/or source code for the Application,
including any data and utility programs needed for reproducing the Combined
 Work from the Application, but excluding the
System Libraries of the Combined Work.
1. Exception to Section 3 of the GNU GPL
You may convey a covered work under sections 3 and 4 of this License without
 being bound by section 3 of the GNU GPL.
2. Conveying Modified Versions
If you modify a copy of the Library, and, in your modifications, a facility
 refers to a function or data to be supplied
by an Application that uses the facility (other than as an argument passed
 when the facility is invoked), then you may
convey a copy of the modified version:
a)  under this License, provided that you make a good faith effort to ensure
 that, in the event an Application does
  not supply the function or data, the facility still operates, and performs
 whatever part of its purpose remains
  meaningful, or
b) under the GNU GPL, with none of the additional permissions of this
 License applicable to that copy.
3. Object Code Incorporating Material from Library Header Files
The object code form of an Application may incorporate material from a
 header file that is part of the Library.  You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:
a) Give prominent notice with each copy of the object code that the Library
 is used in it and that the Library and
  its use are covered by this License.
b) Accompany the object code with a copy of the GNU GPL and this license
 document.
4. Combined Works
You may convey a Combined Work under terms of your choice that, taken
 together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:
* **a)** Give prominent notice with each copy of the Combined Work that the
 Library is used in it and that the Library
  and its use are covered by this License.
* **b)** Accompany the Combined Work with a copy of the GNU GPL and this
 license document.
```

```
* **c)** For a Combined Work that displays copyright notices during
 execution, include the copyright notice for the
  Library among these notices, as well as a reference directing the user to
 the copies of the GNU GPL and this license
  document.
* **d)** Do one of the following:
    - **0)** Convey the Minimal Corresponding Source under the terms of this
 License, and the Corresponding Application
      Code in a form suitable for, and under terms that permit, the user to
 recombine or relink the Application with a
      modified version of the Linked Version to produce a modified Combined
 Work, in the manner specified by section 6
      of the GNU GPL for conveying Corresponding Source.
    - **1)** Use a suitable shared library mechanism for linking with the
 Library. A suitable mechanism is one that **(
      a)** uses at run time a copy of the Library already present on the
 user's computer system, and **(b)** will
      operate properly with a modified version of the Library that is
 interface-compatible with the Linked Version.
* **e)** Provide Installation Information, but only if you would otherwise
 be required to provide such information under
  section 6 of the GNU GPL, and only to the extent that such information is
 necessary to install and execute a modified
  version of the Combined Work produced by recombining or relinking the
 Application with a modified version of the
  Linked Version. (If you use option **4d0**, the Installation Information
 must accompany the Minimal Corresponding
  Source and Corresponding Application Code. If you use option **4d1**, you
 must provide the Installation Information in
  the manner specified by section 6 of the GNU GPL for conveying
 Corresponding Source.)
### 5. Combined Libraries
You may place library facilities that are a work based on the Library side
 by side in a single library together with
other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:
* **a)** Accompany the combined library with a copy of the same work based
 on the Library, uncombined with any other
  library facilities, conveyed under the terms of this License.
* **b)** Give prominent notice with the combined library that part of it is
 a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.
### 6. Revised Versions of the GNU Lesser General Public License
The Free Software Foundation may publish revised and/or new versions of the
 GNU Lesser General Public License from time
to time. Such new versions will be similar in spirit to the present version,
 but may differ in detail to address new
problems or concerns.
Each version is given a distinguishing version number. If the Library as you
 received it specifies that a certain
numbered version of the GNU Lesser General Public License â€œor any later
 versionâ€ applies to it, you have the option of
following the terms and conditions either of that published version or of
 any later version published by the Free
Software Foundation. If the Library as you received it does not specify a
 version number of the GNU Lesser General
Public License, you may choose any version of the GNU Lesser General Public
 License ever published by the Free Software
Foundation.
If the Library as you received it specifies that a proxy can decide whether
 future versions of the GNU Lesser General
```

```
Public License shall apply, that proxy's public statement of acceptance of
 any version is
permanent authorization for you to choose that version for the
Library.
------------------------------- Copyright notices --------------------------
Copyright Â© 2019-2021 Ronald Dehuysser
---------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY
com.fasterxml.jackson.core:jackson-annotations
== License Type
Apache 2.0
== Copyright Notices
 Copyright (c) 2012 http://fasterxml.com. All Rights Reserved.
 Copyright (c) 2012 http://fasterxml.com. All Rights Reserved.
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.
## Licensing
Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.
## Credits
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
com.fasterxml.jackson.core:jackson-core
== License Type
Apache 2.0
== Copyright Notices
 Copyright (c) 2012 http://fasterxml.com. All Rights Reserved.
 Copyright (c) 2012 http://fasterxml.com. All Rights Reserved.
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.
## Licensing
Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.
## Credits
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
com.fasterxml.jackson.datatype:jackson-datatype-jsr310
== License Type
Apache 2.0
== Copyright Notices
 Copyright (c) 2012 http://fasterxml.com. All Rights Reserved.
 Copyright (c) 2012 http://fasterxml.com. All Rights Reserved.
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
```

```
It is currently developed by a community of developers.
## Licensing
Jackson components are licensed under Apache (Software) License, version
 2.0,
as per accompanying LICENSE file.
## Credits
A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
com.fasterxml.jackson:jackson-bom
== License Type
Apache 2.0
== Copyright Notices
Copyright Â© 1994-1999 Lucent Technologies Inc.  All rights reserved.
Copyright Â© 1995-1997 C H Forsyth (forsyth@terzarima.net)
Copyright Â© 1997-1999 Vita Nuova Limited
Copyright Â© 2000-2007 Lucent Technologies Inc. and others
Copyright Â© 2000-2007 Vita Nuova Holdings Limited (www.vitanuova.com)
Copyright Â© 2004,2006 Bruce Ellis
Copyright Â© 2005-2007 C H Forsyth (forsyth@terzarima.net)
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright Â© 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011-2016 Canonical Ltd.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright [2013] [the CloudFoundry Authors]
Copyright 2013 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright Â© 2014-2018 HashiCorp, Inc.
Copyright 2014 gRPC authors.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 gRPC authors.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google Inc.
Copyright 2016 gRPC authors.
Copyright 2016 The Go Authors.  All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google Inc.
Copyright 2017 gRPC authors.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 gRPC authors.
Copyright 2018 The Go Authors.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 gRPC authors.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"github.com/google/safehtml/template
\"\n\t\"golang.org/x/tools/internal/lsp/diff\"\n\t\"golang.org/x/tools/
internal/lsp/diff/difftest\"\n\t\"golang.org/x/tools/internal/span\"\n)\n"
```

```
Copyright 2019 The Go Authors. All rights reserved.\n// Use of this source
 code is governed by a BSD-style\n// license that can be found in the
 LICENSE file.\n\npackage diff_test\n\nimport (\n\t\"fmt\"\n\t\"math/rand
\"\n\t\"strings\"\n\t\"testing\"\n\n\t\"golang.org/x/tools/internal/lsp/diff
\"\n\t\"golang.org/x/tools/internal/lsp/diff/difftest\"\n\t\"golang.org/x/
tools/internal/span\"\n)\n"
Copyright 2020 Google LLC
Copyright 2020 gRPC authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 eventsource authors
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (C) 2006 - 2019, The Apache Software Foundation
Copyright (c) 2006 Kirill Simonov
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2012 Miki Tebeka <miki.tebeka@gmail.com>.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2013 HashiCorp, Inc.
Copyright (c) 2014 ActiveState
Copyright (c) 2014 Armon Dadgar
Copyright (c) 2014 HashiCorp, Inc.
Copyright (c) 2014 Mitchell Hashimoto
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2015 HashiCorp, Inc.
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright (c) 2015 Toru Nagashima
Copyright (c) 2016 Ciena Corporation.
Copyright (c) 2016 HashiCorp, Inc.
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Ryan Uber
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) 2017 Mapbox
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2020 HashiCorp, Inc.
Copyright (c) Microsoft Corporation
Copyright (c) Microsoft Corporation.
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>
Copyright: Hashicorp 2013
Copyright The OpenTelemetry Authors
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
com.google.code.gson:gson
== License Type
Apache 2.0
== Copyright Notices
 Copyright 2008 Google Inc.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
io.lettuce:lettuce-core
== License Type
Apache 2.0
== Copyright Notices
Lettuce Java Redis Client ${version}
```

```
Copyright (c) 2011-2020 Mark Paluch
This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.
This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license file.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
io.micrometer:micrometer-core
== License Type
Apache 2.0
== Copyright Notices
Micrometer
Copyright (c) 2017-Present VMware, Inc. All Rights Reserved.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
   https://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------
This product contains a modified portion of
 'io.netty.util.internal.logging',
in the Netty/Common library distributed by The Netty Project:
  * Copyright 2013 The Netty Project
  * License: Apache License v2.0
  * Homepage: https://netty.io
This product contains a modified portion of 'StringUtils.isBlank()',
in the Commons Lang library distributed by The Apache Software Foundation:
  * Copyright 2001-2019 The Apache Software Foundation
  * License: Apache License v2.0
  * Homepage: https://commons.apache.org/proper/commons-lang/
This product contains a modified portion of 'JsonUtf8Writer',
in the Moshi library distributed by Square, Inc:
  * Copyright 2010 Google Inc.
  * License: Apache License v2.0
  * Homepage: https://github.com/square/moshi
This product contains a modified portion of the 'org.springframework.lang'
package in the Spring Framework library, distributed by VMware, Inc:
  * Copyright 2002-2019 the original author or authors.
  * License: Apache License v2.0
  * Homepage: https://spring.io/projects/spring-framework
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
io.netty:netty-buffer
io.netty:netty-codec
io.netty:netty-common
io.netty:netty-handler
io.netty:netty-resolver
io.netty:netty-transport
io.netty:netty-transport-native-unix-common
== License Type
Apache 2.0
== Copyright Notices
                            The Netty Project
                            =================
Please visit the Netty web site for more information:
  * https://netty.io/
Copyright 2014 The Netty Project
```

```
The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
  https://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.
Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.
-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:
  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.
A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.
Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.
Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/
This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:
  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
```

```
described as a "dedicator" below.
A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.
Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuate of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.
Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/
This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:
  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
(BSD License: https://www.opensource.org/licenses/bsd-license)
Copyright (c) 2011, Joe Walnes, Aslak HellesÃ¸y and contributors
All rights reserved.
Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:
* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.
* Neither the name of the Webbit nor the names of
  its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit
This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:
  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
/*
```

```
 * Copyright (c) 2004-2007 QOS.ch
 * All rights reserved.
 *
 * Permission is hereby granted, free  of charge, to any person obtaining
 * a  copy  of this  software  and  associated  documentation files  (the
 * "Software"), to  deal in  the Software without  restriction, including
 * without limitation  the rights to  use, copy, modify,  merge, publish,
 * distribute,  sublicense, and/or sell  copies of  the Software,  and to
 * permit persons to whom the Software  is furnished to do so, subject to
 * the following conditions:
 *
 * The  above  copyright  notice  and  this permission  notice  shall  be
 * included in all copies or substantial portions of the Software.
 *
 * THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 * EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 * MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 * LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 * OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 * WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */
  * HOMEPAGE:
    * https://www.slf4j.org/
This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:
  * NOTICE:
    * license/NOTICE.harmony.txt
Apache Harmony
Copyright 2006, 2010 The Apache Software Foundation.
This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/
This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:
  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2
 Project
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/
```

```
This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:
  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort
This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:
  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools
This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:
  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights
 reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
 distribution.
  3. The names of the authors may not be used to endorse or promote products
     derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/
```

```
This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:
  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
Copyright 2009-2010 Ning, Inc.
Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at https://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
 under
the License.
  * HOMEPAGE:
    * https://github.com/ning/compress
This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:
  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java
This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:
  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jponge/lzma-java
This product optionally depends on 'zstd-jni', a zstd-jni Java compression
and decompression library, which can be obtained at:
  * LICENSE:
    * license/LICENSE.zstd-jni.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/luben/zstd-jni
This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:
  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
The MIT License
Copyright (c) 2009 William Kinney
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/
```

```
This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:
  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc.  All rights reserved.
https://developers.google.com/protocol-buffers/
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
  * HOMEPAGE:
    * https://github.com/google/protobuf
This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:
  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
The MIT License (MIT)
Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
                          (https://www.bouncycastle.org)
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://www.bouncycastle.org/
```

```
This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:
  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
Copyright 2011, Google Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/google/snappy
This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:
  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling
This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:
  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/google/caliper
This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:
  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/logging/
This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:
  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://logging.apache.org/log4j/
This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:
  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
This copy of Aalto XML processor is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.
```

```
You may obtain a copy of the License at:
https://www.apache.org/licenses/
A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases,
that file should be located next to this file: in source distribution
the location should be "release-notes/asl"; and in jar "META-INF/"
  * HOMEPAGE:
    * https://wiki.fasterxml.com/AaltoHome
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:
  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/twitter/hpack

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:
  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
The MIT License (MIT)
Copyright (c) 2014 Cory Benfield
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:
  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
The MIT License
Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
```

```
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/
This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:
  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/
This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.
  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper
This product contains the dnsinfo.h header file, that provides a way to
 retrieve the system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).
 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
/*
 * Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.
 *
 * @APPLE_LICENSE_HEADER_START@
 *
 * This file contains Original Code and/or Modifications of Original Code
 * as defined in and that are subject to the Apple Public Source License
 * Version 2.0 (the 'License'). You may not use this file except in
 * compliance with the License. Please obtain a copy of the License at
 * https://www.opensource.apple.com/apsl/ and read it before using this
 * file.
 *
 * The Original Code and all software distributed under the License are
 * distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
 * EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
 * INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
 * Please see the License for the specific language governing rights and
 * limitations under the License.
 *
 * @APPLE_LICENSE_HEADER_END@
 */
  * HOMEPAGE:
    * https://www.opensource.apple.com/source/configd/configd-453.19/
dnsinfo/dnsinfo.h
This product optionally depends on 'Brotli4j', Brotli compression and
decompression for Java., which can be obtained at:
  * LICENSE:
    * license/LICENSE.brotli4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/hyperxpro/Brotli4j
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
io.projectreactor:reactor-core
== License Type
Apache 2.0
== Copyright Notices
 Copyright (c) 2006, Ivan Sagalaev
 Copyright (c) 2019-2021 VMware Inc. or its affiliates, All Rights Reserved.
```

```
 Copyright Â© 2015-2021 the original authors.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
jakarta.json.bind:jakarta.json.bind-api
== License Type
EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
== Copyright Notices
# Notices for Jakarta JSON Binding
This content is produced and maintained by the Jakarta JSON Binding project.
* Project home: https://projects.eclipse.org/projects/ee4j.jsonb
## Trademarks
Jakarta JSON Binding is a trademark of the Eclipse Foundation.
## Copyright
All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.
## Declared Project Licenses
This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/jsonb-api
## Third-party Content
This project leverages the following third party content.
None
## Cryptography
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
 Copyright (c) 2017, 2020 Contributors to the Eclipse Foundation
 Copyright (c) 2018, 2020 Contributors to the Eclipse Foundation
 Copyright (c) 2018, Eclipse Foundation, Inc. and its licensors.
 Copyright (c) 2019 Eclipse Foundation.
 Copyright (c) 2021 Contributors to the Eclipse Foundation
 Copyright (c) 2021 Oracle and/or its affiliates. All rights reserved.
 Copyright (c) 2021, 2022 Oracle and/or its affiliates. All rights reserved.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
jakarta.json:jakarta.json-api
== License Type
EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
== Copyright Notices
[//]: # " Copyright (c) 2018, 2020 Oracle and/or its affiliates. All rights
 reserved. "
[//]: # "  "
[//]: # " This program and the accompanying materials are made available
 under the "
```

```
[//]: # " terms of the Eclipse Public License v. 2.0, which is available at
 "
[//]: # " http://www.eclipse.org/legal/epl-2.0. "
[//]: # "  "
[//]: # " This Source Code may also be made available under the following
 Secondary "
[//]: # " Licenses when the conditions for such availability set forth in
 the "
[//]: # " Eclipse Public License v. 2.0 are satisfied: GNU General Public
 License, "
[//]: # " version 2 with the GNU Classpath Exception, which is available at
 "
[//]: # " https://www.gnu.org/software/classpath/license.html. "
[//]: # "  "
[//]: # " SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-
exception-2.0 "
# Notices for Jakarta JSON Processing
This content is produced and maintained by the Jakarta JSON Processing
 project.
* Project home: https://projects.eclipse.org/projects/ee4j.jsonp
## Trademarks
 Jakarta JSON Processing is a trademark of the Eclipse Foundation.
## Copyright
All content is the property of the respective authors or their employers.
 For
more information regarding authorship of content, please consult the listed
source code repository logs.
## Declared Project Licenses
This program and the accompanying materials are made available under the
 terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for
 such
availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU
General Public License v2.0 w/Classpath exception which is available at
https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
## Source Code
The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/jsonp
## Third-party Content
This project leverages the following third party content.
javax.ws.rs-api:2.0.1 (2.0.1)
* License: (CDDL-1.1 OR GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0) AND
   Apache-2.0
* Project: https://github.com/jax-rs/api
* Source: https://github.com/jax-rs/api
javax.ws.rs:jsr311-api:jar:1.1.1 (1.1.1)
* License: CDDL-1.0 AND Apache-2.0
* Project: https://github.com/jax-rs/api
* Source:
   http://search.maven.org/remotecontent?filepath=javax/ws/rs/jsr311-
api/1.1.1/jsr311-api-1.1.1-sources.jar
javax:javaee-web-api:jar:7.0 (7.0)
* License: (CDDL-1.0 OR GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0) AND
   (EPL-1.0 OR BSD-3-Clause) AND Apache-2.0 AND LicenseRef-Public Domain
* Project: https://javaee.github.io
* Source:
   http://search.maven.org/remotecontent?filepath=javax/javaee-web-api/7.0/
javaee-web-api-7.0-sources.jar
JUnit (4.12)
* License: Eclipse Public License
```

```
## Cryptography
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.
 Copyright (c) 2017, 2020 Contributors to the Eclipse Foundation
 Copyright (c) 2018, 2020 Contributors to the Eclipse Foundation
 Copyright (c) 2018, Eclipse Foundation, Inc. and its licensors.
 Copyright (c) 2019 Eclipse Foundation.
 Copyright (c) 2021 Contributors to the Eclipse Foundation
 Copyright (c) 2021 Oracle and/or its affiliates. All rights reserved.
 Copyright (c) 2021, 2022 Oracle and/or its affiliates. All rights reserved.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
org.apache.commons:commons-pool2
== License Type
Apache 2.0
== Copyright Notices
Apache Commons Pool
Copyright 2001-2023 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
org.eclipse:yasson
== License Type
EPL-2.0 OR BSD-3-Clause
# Eclipse Public License - v 2.0
    THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
 PUBLIC LICENSE (â€œAGREEMENTâ€). ANY USE, REPRODUCTION OR DISTRIBUTION OF
 THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
    1. DEFINITIONS

    â€œContributionâ€ means:

        a) in the case of the initial Contributor, the initial content
 Distributed under this Agreement, and
        b) in the case of each subsequent Contributor:
            i) changes to the Program, and
            ii) additions to the Program;
        where such changes and/or additions to the Program originate
 from and are Distributed by that particular Contributor. A Contribution
 â€œoriginatesâ€ from a Contributor if it was added to the Program by
 such Contributor itself or anyone acting on such Contributor's behalf.
 Contributions do not include changes or additions to the Program that are
 not Modified Works.

    â€œContributorâ€ means any person or entity that Distributes the
 Program.

    â€œLicensed Patentsâ€ mean patent claims licensable by a Contributor
 which are necessarily infringed by the use or sale of its Contribution
 alone or when combined with the Program.

    â€œProgramâ€ means the Contributions Distributed in accordance with this
 Agreement.
```

```
   â€œRecipientâ€ means anyone who receives the Program under this
Agreement or any Secondary License (as applicable), including Contributors.

   â€œDerivative Worksâ€ shall mean any work, whether in Source Code or
other form, that is based on (or derived from) the Program and for which
the editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

   â€œModified Worksâ€ shall mean any work in Source Code or other form
that results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations, interfaces,
types, classes, structures, or files of the Program solely in each case in
order to link to, bind by name, or subclass the Program or Modified Works
thereof.

   â€œDistributeâ€ means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

   â€œSource Codeâ€ means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

   â€œSecondary Licenseâ€ means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.
   2. GRANT OF RIGHTS

       a) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free copyright license
to reproduce, prepare Derivative Works of, publicly display, publicly
perform, Distribute and sublicense the Contribution of such Contributor, if
any, and such Derivative Works.
       b) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free patent license
under Licensed Patents to make, use, sell, offer to sell, import and
otherwise transfer the Contribution of such Contributor, if any, in Source
Code or other form. This patent license shall apply to the combination
of the Contribution and the Program if, at the time the Contribution is
added by the Contributor, such addition of the Contribution causes such
combination to be covered by the Licensed Patents. The patent license shall
not apply to any other combinations which include the Contribution. No
hardware per se is licensed hereunder.
       c) Recipient understands that although each Contributor grants
the licenses to its Contributions set forth herein, no assurances are
provided by any Contributor that the Program does not infringe the patent
or other intellectual property rights of any other entity. Each Contributor
disclaims any liability to Recipient for claims brought by any other
entity based on infringement of intellectual property rights or otherwise.
As a condition to exercising the rights and licenses granted hereunder,
each Recipient hereby assumes sole responsibility to secure any other
intellectual property rights needed, if any. For example, if a third party
patent license is required to allow Recipient to Distribute the Program, it
is Recipient's responsibility to acquire that license before distributing
the Program.
       d) Each Contributor represents that to its knowledge it has
sufficient copyright rights in its Contribution, if any, to grant the
copyright license set forth in this Agreement.
       e) Notwithstanding the terms of any Secondary License, no
Contributor makes additional grants to any Recipient (other than those
set forth in this Agreement) as a result of such Recipient's receipt of
```

the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and
b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and
iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i) is combined with other material in a separate file or files made available under a Secondary License, and (ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and
b) a copy of this Agreement must be included with each copy of the Program.

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability (â€˜noticesâ€™) contained within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.
4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (â€œCommercial Contributorâ€) hereby agrees to defend and indemnify every other Contributor (â€œIndemnified Contributorâ€) against any losses, damages and costs (collectively â€œLossesâ€) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement

```
negotiations. The Indemnified Contributor may participate in any such claim
at its own expense.

   For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance claims,
or offers warranties related to Product X, those performance claims and
warranties are such Commercial Contributor's responsibility alone. Under
this section, the Commercial Contributor would have to defend claims
against the other Contributors related to those performance claims and
warranties, and if a court requires any other Contributor to pay any
damages as a result, the Commercial Contributor must pay those damages.
   5. NO WARRANTY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN â€œAS ISâ€
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all risks
associated with its exercise of rights under this Agreement, including
but not limited to the risks and costs of program errors, compliance with
applicable laws, damage to or loss of data, programs or equipment, and
unavailability or interruption of operations.
   6. DISCLAIMER OF LIABILITY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR
THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.
   7. GENERAL

   If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of the
remainder of the terms of this Agreement, and without further action by
the parties hereto, such provision shall be reformed to the minimum extent
necessary to make such provision valid and enforceable.

   If Recipient institutes patent litigation against any entity (including
a cross-claim or counterclaim in a lawsuit) alleging that the Program
itself (excluding combinations of the Program with other software or
hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

   All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of time
after becoming aware of such noncompliance. If all Recipient's rights under
this Agreement terminate, Recipient agrees to cease use and distribution
of the Program as soon as reasonably practicable. However, Recipient's
obligations under this Agreement and any licenses granted by Recipient
relating to the Program shall continue and survive.

   Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and may
only be modified in the following manner. The Agreement Steward reserves
the right to publish new versions (including revisions) of this Agreement
```

```
 from time to time. No one other than the Agreement Steward has the right
 to modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be Distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to Distribute
 the Program (including its Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no rights or licenses to the intellectual property of any
 Contributor under this Agreement, whether expressly, by implication,
 estoppel or otherwise. All rights in the Program not expressly granted
 under this Agreement are reserved. Nothing in this Agreement is intended
 to be enforceable by any entity that is not a Contributor or Recipient. No
 third-party beneficiary rights are created under this Agreement.
    Exhibit A â€" Form of Secondary Licenses Notice

    â€œThis Source Code may also be made available under the following
 Secondary Licenses when the conditions for such availability set forth
 in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
 version(s), and exceptions or additional permissions here}.â€

        Simply including a copy of this Agreement, including this Exhibit A
 is not sufficient to license the Source Code under Secondary Licenses.

        If it is not possible or desirable to put the notice in a particular
 file, then You may include the notice in a location (such as a LICENSE file
 in a relevant directory) where a recipient would be likely to look for such
 a notice.

        You may add additional accurate notices of copyright ownership.
# Eclipse Distribution License - v 1.0
    Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.
    All rights reserved.
    Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
== Copyright Notices
Notices for Eclipse Yasson
This content is produced and maintained by the Eclipse Yasson project.
Project home: https://projects.eclipse.org/projects/ee4j.yasson
Trademarks
Eclipse Yasson is a trademark of the Eclipse Foundation.
Copyright
```

```
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.
Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-v20.html, or the Eclipse Distribution License v.
 1.0 which is available at http://www.eclipse.org/org/documents/edl-v10.php.
SPDX-License-Identifier: EPL-2.0 OR BSD-3-Clause
Source Code
The project maintains the following source code repositories:
https://github.com/eclipse/yasson
https://github.com/eclipse-ee4j/yasson
Third-party Content
cdi-api 2.0 (JSR 365: Contexts and Dependency Injection for Java (2.0)
Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.
 * Copyright (c) 2017, 2019 Oracle and/or its affiliates. All rights
 reserved.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
org.glassfish:jakarta.json
== License Type
EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
== Copyright Notices
Notices for Jakarta JSON Processing
This content is produced and maintained by the Jakarta JSON Processing
 project.
Project home: https://projects.eclipse.org/projects/ee4j.jsonp
Trademarks
Jakarta JSON Processing is a trademark of the Eclipse Foundation.
Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.
Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License v2.0 w/Classpath exception which is available at
 https://www.gnu.org/software/classpath/license.html.
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0
Source Code
The project maintains the following source code repositories:
https://github.com/eclipse-ee4j/jsonp
Third-party Content
This project leverages the following third party content.
javax.ws.rs-api:2.0.1 (2.0.1)
License: (CDDL-1.1 OR GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0) AND
 Apache-2.0
Project: https://github.com/jax-rs/api
Source: https://github.com/jax-rs/api
javax.ws.rs:jsr311-api:jar:1.1.1 (1.1.1)
License: CDDL-1.0 AND Apache-2.0
Project: https://github.com/jax-rs/api
Source: http://search.maven.org/remotecontent?filepath=javax/ws/rs/jsr311-
api/1.1.1/jsr311-api-1.1.1-sources.jar
```

```
javax:javaee-web-api:jar:7.0 (7.0)
License: (CDDL-1.0 OR GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0) AND
 (EPL-1.0 OR BSD-3-Clause) AND Apache-2.0 AND LicenseRef-Public Domain
Project: https://javaee.github.io
Source: http://search.maven.org/remotecontent?filepath=javax/javaee-web-
api/7.0/javaee-web-api-7.0-sources.jar
JUnit (4.12)
License: Eclipse Public License
Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.
 Copyright (c) 2017, 2020 Contributors to the Eclipse Foundation
 Copyright (c) 2018, 2020 Contributors to the Eclipse Foundation
 Copyright (c) 2018, Eclipse Foundation, Inc. and its licensors.
 Copyright (c) 2019 Eclipse Foundation.
 Copyright (c) 2021 Contributors to the Eclipse Foundation
 Copyright (c) 2021 Oracle and/or its affiliates. All rights reserved.
 Copyright (c) 2021, 2022 Oracle and/or its affiliates. All rights reserved.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
org.hdrhistogram:HdrHistogram
== License Type
BSD 2 Clause
== Copyright Notices
The code in this repository code was Written by Gil Tene, Michael Barker,
and Matt Warren, and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/
For users of this code who wish to consume it under the "BSD" license
rather than under the public domain or CC0 contribution text mentioned
above, the code found under this directory is *also* provided under the
following license (commonly referred to as the BSD 2-Clause License). This
license does not detract from the above stated release of the code into
the public domain, and simply represents an additional license granted by
the Author.
-------------------------------------------------------------------------------
** Beginning of "BSD 2-Clause License" text. **
 Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
 Copyright (c) 2014 Michael Barker
 Copyright (c) 2014 Matt Warren
 All rights reserved.
 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
 1. Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
```

```
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
org.json:json
== License Type
MIT
== Copyright Notices
Copyright (c) 2002 JSON.org
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
The Software shall be used for Good, not Evil.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
org.mongodb:bson
== License Type
Apache 2.0
== Copyright Notices
 Copyright 2008-present MongoDB, Inc.
 Copyright 2015 the original author or authors.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
org.mongodb:mongodb-driver-core
== License Type
Apache 2.0
== Copyright Notices
 Copyright 2008-present MongoDB, Inc.
 Copyright 2015 the original author or authors.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
org.mongodb:mongodb-driver-sync
== License Type
Apache 2.0
== Copyright Notices
 Copyright 2008-present MongoDB, Inc.
 Copyright 2015 the original author or authors.
--------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY
org.ow2.asm:asm
== License Type
BSD 3 Clause
== Copyright Notices
 ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2011 INRIA, France Telecom
 All rights reserved.
 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
```

```
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
org.reactivestreams:reactive-streams
== License Type
MIT no attribution
== Copyright Notices
MIT No Attribution
Copyright 2014 Reactive Streams
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including wi
thout limitation the rights to use, copy, modify, merge, publish,
 distribute, sublicense, and/or sell copies of the Software, and to permit
 persons to whom the Software is furnished to do so.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
 NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
 DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SO
FTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY
org.slf4j:slf4j-api
== License Type
MIT
== Copyright Notices
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.
Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:
The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.
THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------(separator)--------------------------------
```

```
== NAME OF DEPENDENCY
redis.clients:jedis
== License Type
MIT
== Copyright Notices
Copyright (c) 2010 Jonathan Leibiusky
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
--------------------------------(separator)---------------------------------
== LICENSES
.
== Text of license (Apache 2.0)
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
```

```
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
```

```
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
    identification within third-party archives.
Copyright [yyyy] [name of copyright owner]
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
```

```
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
== Text of license (Eclipse Public License 2.0)
# Eclipse Public License - v 2.0
        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
    1. DEFINITIONS
    "Contribution" means:
      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and
      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.
    "Contributor" means any person or entity that Distributes the Program.
    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.
    "Program" means the Contributions Distributed in accordance with this
    Agreement.
    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.
    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.
    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
    contents of the Program, including, for purposes of clarity any new file
    in Source Code form that contains any contents of the Program. Modified
    Works shall not include works that contain only declarations,
    interfaces, types, classes, structures, or files of the Program solely
    in each case in order to link to, bind by name, or subclass the Program
    or Modified Works thereof.
    "Distribute" means the acts of a) distributing or b) making available
    in any manner that enables the transfer of a copy.
    "Source Code" means the form of a Program preferred for making
    modifications, including but not limited to software source code,
    documentation source, and configuration files.
    "Secondary License" means either the GNU General Public License,
    Version 2.0, or any later versions of that license, including any
    exceptions or additional permissions as identified by the initial
    Contributor.
    2. GRANT OF RIGHTS
      a) Subject to the terms of this Agreement, each Contributor hereby
      grants Recipient a non-exclusive, worldwide, royalty-free copyright
      license to reproduce, prepare Derivative Works of, publicly display,
      publicly perform, Distribute and sublicense the Contribution of such
      Contributor, if any, and such Derivative Works.
      b) Subject to the terms of this Agreement, each Contributor hereby
      grants Recipient a non-exclusive, worldwide, royalty-free patent
      license under Licensed Patents to make, use, sell, offer to sell,
      import and otherwise transfer the Contribution of such Contributor,
```

```
      if any, in Source Code or other form. This patent license shall
      apply to the combination of the Contribution and the Program if, at
      the time the Contribution is added by the Contributor, such addition
      of the Contribution causes such combination to be covered by the
      Licensed Patents. The patent license shall not apply to any other
      combinations which include the Contribution. No hardware per se is
      licensed hereunder.
      c) Recipient understands that although each Contributor grants the
      licenses to its Contributions set forth herein, no assurances are
      provided by any Contributor that the Program does not infringe the
      patent or other intellectual property rights of any other entity.
      Each Contributor disclaims any liability to Recipient for claims
      brought by any other entity based on infringement of intellectual
      property rights or otherwise. As a condition to exercising the
      rights and licenses granted hereunder, each Recipient hereby
      assumes sole responsibility to secure any other intellectual
      property rights needed, if any. For example, if a third party
      patent license is required to allow Recipient to Distribute the
      Program, it is Recipient's responsibility to acquire that license
      before distributing the Program.
      d) Each Contributor represents that to its knowledge it has
      sufficient copyright rights in its Contribution, if any, to grant
      the copyright license set forth in this Agreement.
      e) Notwithstanding the terms of any Secondary License, no
      Contributor makes additional grants to any Recipient (other than
      those set forth in this Agreement) as a result of such Recipient's
      receipt of the Program under the terms of a Secondary License
      (if permitted under the terms of Section 3).
    3. REQUIREMENTS
    3.1 If a Contributor Distributes the Program in any form, then:
      a) the Program must also be made available as Source Code, in
      accordance with section 3.2, and the Contributor must accompany
      the Program with a statement that the Source Code for the Program
      is available under this Agreement, and informs Recipients how to
      obtain it in a reasonable manner on or through a medium customarily
      used for software exchange; and
      b) the Contributor may Distribute the Program under a license
      different than this Agreement, provided that such license:
         i) effectively disclaims on behalf of all other Contributors all
         warranties and conditions, express and implied, including
         warranties or conditions of title and non-infringement, and
         implied warranties or conditions of merchantability and fitness
         for a particular purpose;
         ii) effectively excludes on behalf of all other Contributors all
         liability for damages, including direct, indirect, special,
         incidental and consequential damages, such as lost profits;
         iii) does not attempt to limit or alter the recipients' rights
         in the Source Code under section 3.2; and
         iv) requires any subsequent distribution of the Program by any
         party to be under a license that satisfies the requirements
         of this section 3.
    3.2 When the Program is Distributed as Source Code:
      a) it must be made available under this Agreement, or if the
      Program (i) is combined with other material in a separate file or
      files made available under a Secondary License, and (ii) the initial
      Contributor attached to the Source Code the notice described in
      Exhibit A of this Agreement, then the Program may be made available
      under the terms of such Secondary Licenses, and
      b) a copy of this Agreement must be included with each copy of
      the Program.
    3.3 Contributors may not remove or alter any copyright, patent,
    trademark, attribution notices, disclaimers of warranty, or limitations
    of liability ("notices") contained within the Program from any copy of
    the Program which they Distribute, provided that Contributors may add
```

```
   their own appropriate notices.
   4. COMMERCIAL DISTRIBUTION
   Commercial distributors of software may accept certain responsibilities
   with respect to end users, business partners and the like. While this
   license is intended to facilitate the commercial use of the Program,
   the Contributor who includes the Program in a commercial product
   offering should do so in a manner which does not create potential
   liability for other Contributors. Therefore, if a Contributor includes
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the
Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
   Contributor must: a) promptly notify the Commercial Contributor in
   writing of such claim, and b) allow the Commercial Contributor to
control,
   and cooperate with the Commercial Contributor in, the defense and any
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.
   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance
   claims, or offers warranties related to Product X, those performance
   claims and warranties are such Commercial Contributor's responsibility
   alone. Under this section, the Commercial Contributor would have to
   defend claims against the other Contributors related to those
performance
   claims and warranties, and if a court requires any other Contributor to
   pay any damages as a result, the Commercial Contributor must pay
   those damages.
   5. NO WARRANTY
   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
   BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
   IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
   TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
   PURPOSE. Each Recipient is solely responsible for determining the
   appropriateness of using and distributing the Program and assumes all
   risks associated with its exercise of rights under this Agreement,
   including but not limited to the risks and costs of program errors,
   compliance with applicable laws, damage to or loss of data, programs
   or equipment, and unavailability or interruption of operations.
   6. DISCLAIMER OF LIABILITY
   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
   SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
   PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
   CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
   ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
   EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
   POSSIBILITY OF SUCH DAMAGES.
   7. GENERAL
   If any provision of this Agreement is invalid or unenforceable under
   applicable law, it shall not affect the validity or enforceability of
   the remainder of the terms of this Agreement, and without further
   action by the parties hereto, such provision shall be reformed to the
   minimum extent necessary to make such provision valid and enforceable.
```

```
    If Recipient institutes patent litigation against any entity
    (including a cross-claim or counterclaim in a lawsuit) alleging that the
    Program itself (excluding combinations of the Program with other
 software
    or hardware) infringes such Recipient's patent(s), then such Recipient's
    rights granted under Section 2(b) shall terminate as of the date such
    litigation is filed.
    All Recipient's rights under this Agreement shall terminate if it
    fails to comply with any of the material terms or conditions of this
    Agreement and does not cure such failure in a reasonable period of
    time after becoming aware of such noncompliance. If all Recipient's
    rights under this Agreement terminate, Recipient agrees to cease use
    and distribution of the Program as soon as reasonably practicable.
    However, Recipient's obligations under this Agreement and any licenses
    granted by Recipient relating to the Program shall continue and survive.
    Everyone is permitted to copy and distribute copies of this Agreement,
    but in order to avoid inconsistency the Agreement is copyrighted and
    may only be modified in the following manner. The Agreement Steward
    reserves the right to publish new versions (including revisions) of
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is
 published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.
    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.
    Exhibit A - Form of Secondary Licenses Notice
    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."
      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.
      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.
      You may add additional accurate notices of copyright ownership.
== Text of license (GPLv2 with Classpath exception)
##    The GNU General Public License (GPL) Version 2, June 1991
    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin Street, Fifth Floor
    Boston, MA 02110-1335
    USA
    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.
    Preamble
    The licenses for most software are designed to take away your freedom to
    share and change it. By contrast, the GNU General Public License is
    intended to guarantee your freedom to share and change free software--to
    make sure the software is free for all its users. This General Public
    License applies to most of the Free Software Foundation's software and
    to any other program whose authors commit to using it. (Some other Free
```

```
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.
We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.
Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and
modification follow.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.
You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:
    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.
    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any part
```

```
        thereof, to be licensed as a whole at no charge to all third parties
        under the terms of this License.
        c) If the modified program normally reads commands interactively
        when run, you must cause it, when started running for such
        interactive use in the most ordinary way, to print or display an
        announcement including an appropriate copyright notice and a notice
        that there is no warranty (or else, saying that you provide a
        warranty) and that users may redistribute the program under these
        conditions, and telling the user how to view a copy of this License.
        (Exception: if the Program itself is interactive but does not
        normally print such an announcement, your work based on the Program
        is not required to print an announcement.)
    These requirements apply to the modified work as a whole. If
    identifiable sections of that work are not derived from the Program, and
    can be reasonably considered independent and separate works in
    themselves, then this License, and its terms, do not apply to those
    sections when you distribute them as separate works. But when you
    distribute the same sections as part of a whole which is a work based on
    the Program, the distribution of the whole must be on the terms of this
    License, whose permissions for other licensees extend to the entire
    whole, and thus to each and every part regardless of who wrote it.
    Thus, it is not the intent of this section to claim rights or contest
    your rights to work written entirely by you; rather, the intent is to
    exercise the right to control the distribution of derivative or
    collective works based on the Program.
    In addition, mere aggregation of another work not based on the Program
    with the Program (or with a work based on the Program) on a volume of a
    storage or distribution medium does not bring the other work under the
    scope of this License.
    3. You may copy and distribute the Program (or a work based on it,
    under Section 2) in object code or executable form under the terms of
    Sections 1 and 2 above provided that you also do one of the following:
        a) Accompany it with the complete corresponding machine-readable
        source code, which must be distributed under the terms of Sections 1
        and 2 above on a medium customarily used for software interchange;
or,
        b) Accompany it with a written offer, valid for at least three
        years, to give any third party, for a charge no more than your cost
        of physically performing source distribution, a complete
        machine-readable copy of the corresponding source code, to be
        distributed under the terms of Sections 1 and 2 above on a medium
        customarily used for software interchange; or,
        c) Accompany it with the information you received as to the offer to
        distribute corresponding source code. (This alternative is allowed
        only for noncommercial distribution and only if you received the
        program in object code or executable form with such an offer, in
        accord with Subsection b above.)
    The source code for a work means the preferred form of the work for
    making modifications to it. For an executable work, complete source code
    means all the source code for all modules it contains, plus any
    associated interface definition files, plus the scripts used to control
    compilation and installation of the executable. However, as a special
    exception, the source code distributed need not include anything that is
    normally distributed (in either source or binary form) with the major
    components (compiler, kernel, and so on) of the operating system on
    which the executable runs, unless that component itself accompanies the
    executable.
    If distribution of executable or object code is made by offering access
    to copy from a designated place, then offering equivalent access to copy
    the source code from the same place counts as distribution of the source
    code, even though third parties are not compelled to copy the source
    along with the object code.
    4. You may not copy, modify, sublicense, or distribute the Program
    except as expressly provided under this License. Any attempt otherwise
```

```
   to copy, modify, sublicense or distribute the Program is void, and will
   automatically terminate your rights under this License. However, parties
   who have received copies, or rights, from you under this License will
   not have their licenses terminated so long as such parties remain in
   full compliance.
   5. You are not required to accept this License, since you have not
   signed it. However, nothing else grants you permission to modify or
   distribute the Program or its derivative works. These actions are
   prohibited by law if you do not accept this License. Therefore, by
   modifying or distributing the Program (or any work based on the
   Program), you indicate your acceptance of this License to do so, and all
   its terms and conditions for copying, distributing or modifying the
   Program or works based on it.
   6. Each time you redistribute the Program (or any work based on the
   Program), the recipient automatically receives a license from the
   original licensor to copy, distribute or modify the Program subject to
   these terms and conditions. You may not impose any further restrictions
   on the recipients' exercise of the rights granted herein. You are not
   responsible for enforcing compliance by third parties to this License.
   7. If, as a consequence of a court judgment or allegation of patent
   infringement or for any other reason (not limited to patent issues),
   conditions are imposed on you (whether by court order, agreement or
   otherwise) that contradict the conditions of this License, they do not
   excuse you from the conditions of this License. If you cannot distribute
   so as to satisfy simultaneously your obligations under this License and
   any other pertinent obligations, then as a consequence you may not
   distribute the Program at all. For example, if a patent license would
   not permit royalty-free redistribution of the Program by all those who
   receive copies directly or indirectly through you, then the only way you
   could satisfy both it and this License would be to refrain entirely from
   distribution of the Program.
   If any portion of this section is held invalid or unenforceable under
   any particular circumstance, the balance of the section is intended to
   apply and the section as a whole is intended to apply in other
   circumstances.
   It is not the purpose of this section to induce you to infringe any
   patents or other property right claims or to contest validity of any
   such claims; this section has the sole purpose of protecting the
   integrity of the free software distribution system, which is implemented
   by public license practices. Many people have made generous
   contributions to the wide range of software distributed through that
   system in reliance on consistent application of that system; it is up to
   the author/donor to decide if he or she is willing to distribute
   software through any other system and a licensee cannot impose that
choice.
   This section is intended to make thoroughly clear what is believed to be
   a consequence of the rest of this License.
   8. If the distribution and/or use of the Program is restricted in
   certain countries either by patents or by copyrighted interfaces, the
   original copyright holder who places the Program under this License may
   add an explicit geographical distribution limitation excluding those
   countries, so that distribution is permitted only in or among countries
   not thus excluded. In such case, this License incorporates the
   limitation as if written in the body of this License.
   9. The Free Software Foundation may publish revised and/or new
   versions of the General Public License from time to time. Such new
   versions will be similar in spirit to the present version, but may
   differ in detail to address new problems or concerns.
   Each version is given a distinguishing version number. If the Program
   specifies a version number of this License which applies to it and "any
   later version", you have the option of following the terms and
   conditions either of that version or of any later version published by
   the Free Software Foundation. If the Program does not specify a version
   number of this License, you may choose any version ever published by the
```

```
   Free Software Foundation.
   10. If you wish to incorporate parts of the Program into other free
   programs whose distribution conditions are different, write to the
   author to ask for permission. For software which is copyrighted by the
   Free Software Foundation, write to the Free Software Foundation; we
   sometimes make exceptions for this. Our decision will be guided by the
   two goals of preserving the free status of all derivatives of our free
   software and of promoting the sharing and reuse of software generally.
   NO WARRANTY
   11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
   WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
   EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
   OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
   EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
   ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
   YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
   NECESSARY SERVICING, REPAIR OR CORRECTION.
   12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
   WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
   AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
   DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
   DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
   (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
   INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
   THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
   OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
   END OF TERMS AND CONDITIONS
   How to Apply These Terms to Your New Programs
   If you develop a new program, and you want it to be of the greatest
   possible use to the public, the best way to achieve this is to make it
   free software which everyone can redistribute and change under these
terms.
   To do so, attach the following notices to the program. It is safest to
   attach them to the start of each source file to most effectively convey
   the exclusion of warranty; and each file should have at least the
   "copyright" line and a pointer to where the full notice is found.
       One line to give the program's name and a brief idea of what it
does.
       Copyright (C) <year> <name of author>
       This program is free software; you can redistribute it and/or modify
       it under the terms of the GNU General Public License as published by
       the Free Software Foundation; either version 2 of the License, or
       (at your option) any later version.
       This program is distributed in the hope that it will be useful, but
       WITHOUT ANY WARRANTY; without even the implied warranty of
       MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
       General Public License for more details.
       You should have received a copy of the GNU General Public License
       along with this program; if not, write to the Free Software
       Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1335 USA
   Also add information on how to contact you by electronic and paper mail.
   If the program is interactive, make it output a short notice like this
   when it starts in an interactive mode:
       Gnomovision version 69, Copyright (C) year name of author
       Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
       `show w'. This is free software, and you are welcome to redistribute
       it under certain conditions; type `show c' for details.
   The hypothetical commands `show w' and `show c' should show the
   appropriate parts of the General Public License. Of course, the commands
   you use may be called something other than `show w' and `show c'; they
   could even be mouse-clicks or menu items--whatever suits your program.
   You should also get your employer (if you work as a programmer) or your
```

```
    school, if any, to sign a "copyright disclaimer" for the program, if
    necessary. Here is a sample; alter the names:
        Yoyodyne, Inc., hereby disclaims all copyright interest in the
        program `Gnomovision' (which makes passes at compilers) written by
        James Hacker.
        signature of Ty Coon, 1 April 1989
        Ty Coon, President of Vice
    This General Public License does not permit incorporating your program
    into proprietary programs. If your program is a subroutine library, you
    may consider it more useful to permit linking proprietary applications
    with the library. If this is what you want to do, use the GNU Library
    General Public License instead of this License.
---
## CLASSPATH EXCEPTION
    Linking this library statically or dynamically with other modules is
    making a combined work based on this library.  Thus, the terms and
    conditions of the GNU General Public License version 2 cover the whole
    combination.
    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
    modules, and to copy and distribute the resulting executable under
    terms of your choice, provided that you also meet, for each linked
    independent module, the terms and conditions of the license of that
    module.  An independent module is a module which is not derived from or
    based on this library.  If you modify this library, you may extend this
    exception to your version of the library, but you are not obligated to
    do so.  If you do not wish to do so, delete this exception statement
    from your version.
```

Provider: Ruby FFI contributors / Component(s): ffi 1.14.2

```
Copyright (c) 2008-2016, Ruby FFI project contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the Ruby FFI project nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
Copyright (c) 2008-2012 Ruby-FFI contributors

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.



libffi - Copyright (c) 1996-2011  Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Ruby FFI contributors / Component(s): ffi 2.12.2

```
Copyright (c) 2008-2016, Ruby FFI project contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the Ruby FFI project nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2008-2012 Ruby-FFI contributors

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.



libffi - Copyright (c) 1996-2011  Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: rvesse / Component(s): Airline 2.8.1

```
1. Include the following copyright notices from the NOTICES file in
        the documentation, and if there is any indication that there is any
 material
        other than those referenced below, contact legal immediately:

**NB** - This software is licensed under the Apache License 2.0 and as such
 these
copyrights do not in any way effect your rights to use this software

- Copyright 2013-18 Rob Vesse <rvesse@dotnetrdf.org>
- Copyright 2013 Fernando Hernandez <fernando@clarkparsia.com>
- Copyright 2013 Michael Grove <mike@clarkparsia.com>
- Copyright 2011 Dain Sundstrom <dain@iq80.com>
- Copyright 2010 Cedric Beust cedric@beust.com

commons-lang3:3.8.1
--Notice---
Apache Commons Lang
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

commons-collections4:4.2

--Notice---
Apache Commons Collections
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

2. Include prominent notice with modified files stating that such files were
 modified.


3. Include the following License ONLY ONCE in the documentation even if
 there are
multiple products licensed under the license.


The following applies to all products licensed under the Apache 2.0 License:

You may not use the identified files except in compliance with the Apache
 License,
Version 2.0 (the "License.")

You may obtain a copy of the License at http://www.apache.org/licenses/
LICENSE-2.0.
A copy of the license is also reproduced below.

Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and
 limitations under the License.

                    Apache License
                            Version 2.0, January 2004
```

```
                         http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
```

```
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Ryan Day / Component(s): qrcode 1.3.2

```
qrcode 1.3.2
COPYRIGHT and LICENSE:

The MIT License (MIT)

Copyright (c) 2012 Ryan Day

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


----------------
4P Dependencies:

can-promise 0.0.1
COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2017 Vincenzo Greco

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---

dijkstrajs 1.0.1
COPYRIGHT and LICENSE:
Dijkstra path-finding functions. Adapted from the Dijkstar Python project.

Copyright (C) 2008
  Wyatt Baldwin <self@wyattbaldwin.com>
  All rights reserved

Licensed under the MIT license.

  http://www.opensource.org/licenses/mit-license.php

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

---
isarray 2.0.1
COPYRIGHT and LICENSE:
(MIT)

Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


---
pngjs 3.3.0
COPYRIGHT and LICENSE:
pngjs2 original work Copyright (c) 2015 Luke Page & Original Contributors
pngjs derived work Copyright (c) 2012 Kuba Niegowski
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---
yargs 8.0.2
COPYRIGHT and LICENSE:
Copyright 2010 James Halliday (mail@substack.net)
Modified work Copyright 2014 Contributors (ben@npmjs.com)

This project is free software released under the MIT/X11 license:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Salvatore Sanfilippo / Component(s): Redis 4.0.11

```
Redis Copyright http://download.redis.io/redis-stable/COPYING
---------------------------
Copyright (c) 2006-2015, Salvatore Sanfilippo
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
```

```
    * Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    * Neither the name of Redis nor the names of its contributors may be
 used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


Redis license https://redis.io/topics/license#three-clause-bsd-license
--------------------------
Redis license and trademark information
Redis is open source software released under the terms of the three clause
 BSD license. Most of the Redis source code was written and is copyrighted
 by Salvatore Sanfilippo and Pieter Noordhuis. A list of other contributors
 can be found in the git history.
The Redis trademark and logo are owned by Salvatore Sanfilippo and can be
 used in accordance with the Redis Trademark Guidelines.
Three clause BSD license
Every file in the Redis distribution, with the exceptions of third party
 files specified in the list below, contain the following license:
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of Redis nor the names of its contributors may be used to
 endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
Third party files and licenses
Redis uses source code from third parties. All this code contains a BSD or
 BSD-compatible license. The following is a list of third party files and
 information about their copyright.
Redis uses the LHF compression library. LibLZF is copyright Marc Alexander
 Lehmann and is released under the terms of the two clause BSD license.
Redis uses the sha1.c file that is copyright by Steve Reid and released
 under the public domain. This file is extremely popular and used among open
 source and proprietary code.
```

```
When compiled on Linux Redis uses the Jemalloc allocator, that is copyright
 by Jason Evans, Mozilla Foundation and Facebook, Inc and is released under
 the two clause BSD license.
Inside Jemalloc the file pprof is copyright Google Inc and released under
 the three clause BSD license.
Inside Jemalloc the files inttypes.h, stdbool.h, stdint.h, strings.h under
 the msvc_compat directory are copyright Alexander Chemeris and released
 under the three clause BSD license.
The libraries hiredis and linenoise also included inside the Redis
 distribution are copyright Salvatore Sanfilippo and Pieter Noordhuis and
 released under the terms respectively of the three clause BSD license and
 two clause BSD license.
--------------------------

Fourth party dependencies copyright and and license info:

LibZF http://oldhome.schmorp.de/marc/liblzf.html
--------------------------
/*
 * Copyright (c) 2000-2007 Marc Alexander Lehmann <schmorp@schmorp.de>
 *
 * Redistribution and use in source and binary forms, with or without
 modifica-
 * tion, are permitted provided that the following conditions are met:
 *
 *   1.  Redistributions of source code must retain the above copyright
 notice,
 *       this list of conditions and the following disclaimer.
 *
 *   2.  Redistributions in binary form must reproduce the above copyright
 *       notice, this list of conditions and the following disclaimer in the
 *       documentation and/or other materials provided with the
 distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MER-
 * CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO
 * EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 SPE-
 * CIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS;
 * OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 * WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTH-
 * ERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 *
 * Alternatively, the contents of this file may be used under the terms of
 * the GNU General Public License ("GPL") version 2 or any later version,
 * in which case the provisions of the GPL are applicable instead of
 * the above. If you wish to allow the use of your version of this file
 * only under the terms of the GPL and not to allow others to use your
 * version of this file under the BSD license, indicate your decision
 * by deleting the provisions above and replace them with the notice
 * and other provisions required by the GPL. If you do not delete the
 * provisions above, a recipient may use your version of this file under
 * either the BSD or the GPL.
 */
--------------------------

Sha1.c https://github.com/jdg/oauthconsumer/blob/master/Crypto/sha1.c
```

```
--------------------------
By Steve Reid <steve@edmweb.com>
100% Public Domain
--------------------------

Jemalloc https://github.com/jemalloc/jemalloc/blob/dev/COPYING
--------------------------
Unless otherwise specified, files in the jemalloc source distribution are
subject to the following license:
--------------------------------------------------------------------------------
Copyright (C) 2002-2017 Jason Evans <jasone@canonware.com>.
All rights reserved.
Copyright (C) 2007-2012 Mozilla Foundation.  All rights reserved.
Copyright (C) 2009-2017 Facebook, Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice(s),
   this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
 notice(s),
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER(S) ``AS IS'' AND ANY
 EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO
EVENT SHALL THE COPYRIGHT HOLDER(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
 OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------
--------------------------

pprof copyright https://github.com/google/pprof/blob/master/AUTHORS
--------------------------
# This is the official list of pprof authors for copyright purposes.
# This file is distinct from the CONTRIBUTORS files.
# See the latter for an explanation.
# Names should be added to this file as:
# Name or Organization <email address>
# The email address is not required for organizations.
Google Inc.
--------------------------

pprof license https://raw.githubusercontent.com/google/pprof/master/LICENSE
--------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------


Jemalloc/msvc_compat https://github.com/jemalloc/jemalloc/blob/master/
include/msvc_compat/C99/stdint.h
--------------------------
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
 met:
//
//   1. Redistributions of source code must retain the above copyright
 notice,
//      this list of conditions and the following disclaimer.
//
//   2. Redistributions in binary form must reproduce the above copyright
//      notice, this list of conditions and the following disclaimer in the
//      documentation and/or other materials provided with the distribution.
//
//   3. The name of the author may be used to endorse or promote products
//      derived from this software without specific prior written
 permission.
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
///////////////////////////////////////////////////////////////////////////////
--------------------------

hredis https://github.com/redis/hiredis/blob/master/COPYING
--------------------------
Copyright (c) 2009-2011, Salvatore Sanfilippo <antirez at gmail dot com>
Copyright (c) 2010-2011, Pieter Noordhuis <pcnoordhuis at gmail dot com>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
```

```
* Neither the name of Redis nor the names of its contributors may be used
  to endorse or promote products derived from this software without specific
  prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------

linenoise http://download.redis.io/redis-stable/deps/linenoise/linenoise.c
--------------------------
 * Copyright (c) 2010-2016, Salvatore Sanfilippo <antirez at gmail dot com>
 * Copyright (c) 2010-2013, Pieter Noordhuis <pcnoordhuis at gmail dot com>
 *
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions are
 * met:
 *
 *  *  Redistributions of source code must retain the above copyright
 *     notice, this list of conditions and the following disclaimer.
 *
 *  *  Redistributions in binary form must reproduce the above copyright
 *     notice, this list of conditions and the following disclaimer in the
 *     documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
 * A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 * HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 * OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 *
--------------------------

Forth Party Licenses
Hiredis 1.0 3-Clause BSD
Jemalloc 4.4.0 2-Clause BSD
Linenoise Unknown Version BSD License
Lua 5.1 MIT
```

Provider: Sam Ghods / Component(s): yaml 1.0.0

```
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.4th
 Party Dependencies, gopkg.in/yaml.v2 a3f3340b, License Text:

Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
 http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
```

```
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
a.You must give any other recipients of the Work or Derivative Works a copy
 of this License; and
b.You must cause any modified files to carry prominent notices stating that
 You changed the files; and
c.You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
d.If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

 You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
```

```
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

4th Party Dependencies, libyaml. License Text:

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

 apic.go
 emitterc.go
 parserc.go
 readerc.go
 scannerc.go
 writerc.go
 yamlh.go
 yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
```

```
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: samba.org/ Component(s): samba 4.7.1-9

```
 ***Additional Copyright and Notice information from specific code modules
 may be found under the top-level GNU notice***


              GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.
```

```
  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.
```

```
  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
```

```
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
```

```
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
```

```
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.
```

```
  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
```

finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a

```
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
```

License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF

```
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
```

```
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

--------------------------------------------------------------------------------

****Additional Copyright and Notice information from source components***

auth component
--------------
auth/auth_log.c:   Copyright (C) Andrew Bartlett <abartlet@samba.org> 2017
auth/auth_sam_reply.c:   Copyright (C) Andrew Bartlett <abartlet@samba.org>
 2004-2011
auth/auth_sam_reply.c:   Copyright (C) Stefan Metzmacher <metze@samba.org>
 2005
auth/wbc_auth_util.c:   Copyright (C) Volker Lendecke 2010

NOTICE
------
   This program is free software; you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation; either version 3 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   GNU General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program.  If not, see <http://www.gnu.org/licenses/>

dfs_server
----------
dfs_server/dfs_server_ad.c:   Copyright Matthieu Patou <mat@matws.net>
 2010-2011
dfs_server/dfs_server_ad.c:   Copyright Stefan Metzmacher 2011

NOTICE
------
   This program is free software; you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation; either version 3 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   GNU General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program.  If not, see <http://www.gnu.org/licenses/>



dynconfig
---------
dynconfig/dynconfig.c:   Copyright (C) 2001 by Martin Pool <mbp@samba.org>
dynconfig/dynconfig.c:   Copyright (C) Jim McDonough (jmcd@us.ibm.com)
 2003.
dynconfig/dynconfig.c:   Copyright (C) Stefan Metzmacher 2003

NOTICE
------
   This program is free software; you can redistribute it and/or modify
```

```
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation; either version 3 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   GNU General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program.  If not, see <http://www.gnu.org/licenses/>



file_server
-----------
file_server/file_server.c:   Copyright (C) Andrew Tridgell 2011

NOTICE
------
   This program is free software; you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation; either version 3 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   GNU General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program.  If not, see <http://www.gnu.org/licenses/>



libgpo
------
libgpo/gpo_fetch.c:   Copyright (C) Guenther Deschner 2005-2006
libgpo/gpo_ini.c:   Copyright (C) Guenther Deschner 2007
libgpo/gpo_ini.c:   Copyright (C) Wilco Baan Hofman 2009
libgpo/gpo_ldap.c:   Copyright (C) Guenther Deschner 2005,2007
libgpo/gpo_sec.c:   Copyright (C) Guenther Deschner 2007

NOTICE
------
   This program is free software; you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation; either version 3 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   GNU General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program.  If not, see <http://www.gnu.org/licenses/>

libgpo/gpo_util.c:   Copyright (C) Guenther Deschner 2005-2008

nsswitch
NOTE: This distribution elects to distribute under the GPL 3 license.
--------
nsswitch/nsstest.c:   Copyright (C) Andrew Tridgell 2001
```

```
nsswitch/nsstest.c:   Copyright (C) Tim Potter 2003
nsswitch/pam_winbind.c:
{Copyright and Notice}
/*
 * Copyright (c) Andrew Tridgell  <tridge@samba.org>   2000
 * Copyright (c) Tim Potter       <tpot@samba.org>     2000
 * Copyright (c) Andrew Bartlettt <abartlet@samba.org> 2002
 * Copyright (c) Guenther Deschner <gd@samba.org>      2005-2008
 * Copyright (c) Jan Rêkorajski 1999.
 * Copyright (c) Andrew G. Morgan 1996-8.
 * Copyright (c) Alex O. Yuriev, 1996.
 * Copyright (c) Cristian Gafton 1996.
 * Copyright (C) Elliot Lee <sopwith@redhat.com> 1996, Red Hat Software.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, and the entire permission notice in its entirety,
 *    including the disclaimer of warranties.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote
 *    products derived from this software without specific prior
 *    written permission.
 *
 * ALTERNATIVELY, this product may be distributed under the terms of
 * the GNU Public License, in which case the provisions of the GPL are
 * required INSTEAD OF the above restrictions.  (This clause is
 * necessary due to a potential bad interaction between the GPL and
 * the restrictions contained in a BSD-style copyright.)
 *
 * THIS SOFTWARE IS PROVIDED `AS IS'' AND ANY EXPRESS OR IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 * DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
 * INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 */

nsswitch/wb_common.c:   Copyright (C) Tim Potter 2000
nsswitch/wb_common.c:   Copyright (C) Andrew Tridgell 2000
nsswitch/wb_common.c:   Copyright (C) Andrew Bartlett 2002
nsswitch/wb_common.c:   Copyright (C) Matthew Newton 2015
nsswitch/wb_reqtrans.c:   Copyright (C) Volker Lendecke 2008
nsswitch/wbinfo.c:   Copyright (C) Tim Potter      2000-2003
nsswitch/wbinfo.c:   Copyright (C) Andrew Bartlett 2002-2007
nsswitch/wbinfo.c:   Copyright (C) Volker Lendecke 2009
nsswitch/winbind_krb5_locator.c:   Copyright (C) Guenther Deschner 2007-2008
nsswitch/winbind_nss_aix.c:   Copyright (C) Tim Potter 2003
nsswitch/winbind_nss_aix.c:   Copyright (C) Steve Roylance 2003
nsswitch/winbind_nss_aix.c:   Copyright (C) Andrew Tridgell 2003-2004
nsswitch/winbind_nss_freebsd.c:   Copyright (C) Aaron Collins 2003
nsswitch/winbind_nss_freebsd.c:   Copyright (C) Timur I. Bakeyev 2013
nsswitch/winbind_nss_irix.c:   Copyright (C) Tim Potter 2000
nsswitch/winbind_nss_irix.c:   Copyright (C) James Peach 2006
nsswitch/winbind_nss_linux.c:   Copyright (C) Tim Potter 2000
nsswitch/winbind_nss_netbsd.c:   Copyright (C) Luke Mewburn 2004-2005
```

```
nsswitch/winbind_nss_solaris.c:  Copyright (C) 1997-2003 Luke Howard.
nsswitch/wins.c:   Copyright (C) Andrew Tridgell 1999
nsswitch/wins_freebsd.c:   Copyright (C) Timur I. Bakeyev 2007

NOTICE
------
   This program is free software; you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation; either version 3 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   GNU General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program.  If not, see <http://www.gnu.org/licenses/>



python glue
-----------
python/modules.c:   Copyright (C) Jelmer Vernooij <jelmer@samba.org> 2007
python/pyglue.c:   Copyright (C) Jelmer Vernooij <jelmer@samba.org> 2007
python/pyglue.c:   Copyright (C) Matthias Dieter Wallnöfer          2009

NOTICE
------
   This program is free software; you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation; either version 3 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   GNU General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program.  If not, see <http://www.gnu.org/licenses/>
```

Provider: Samuel Audet / Component(s): JavaCPP 1.5.2

```
Copyright (C) 2011-2019 Samuel Audet

Licensed either under the Apache License, Version 2.0, or (at your option)
under the terms of the GNU General Public License as published by
the Free Software Foundation (subject to the "Classpath" exception),
either version 2, or any later version (collectively, the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0
     http://www.gnu.org/licenses/
     http://www.gnu.org/software/classpath/license.html

or as provided in the LICENSE.txt file that accompanied this code.
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
```

```
limitations under the License.

*************************************************************
You may use this work under the terms of either the Apache License,
Version 2.0, or the GNU General Public License (GPL), either version 2,
or any later version, with "Classpath" exception (details below).

You don't have to do anything special to choose one license or the other
and you don't have to notify anyone which license you are using. You are
free to use this work in any project (even commercial projects) as long
as the copyright header is left intact.

==============================================================================

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

================================================================================

      GNU GENERAL PUBLIC LICENSE
         Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
```

```
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

      GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
```

```
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.
```

```
If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.
```

```
  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

       NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

       END OF TERMS AND CONDITIONS

     How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.
```

```
    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.


"CLASSPATH" EXCEPTION TO THE GPL

    Linking this library statically or dynamically with other modules is
 making
    a combined work based on this library.  Thus, the terms and conditions
 of
    the GNU General Public License cover the whole combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
 modules,
    and to copy and distribute the resulting executable under terms of your
    choice, provided that you also meet, for each linked independent module,
```

```
    the terms and conditions of the license of that module.  An independent
    module is a module which is not derived from or based on this library.
 If
    you modify this library, you may extend this exception to your version
 of
    the library, but you are not obligated to do so.  If you do not wish to
 do
    so, delete this exception statement from your version.
```

Provider: Samuel Audet / Component(s): JavaCPP Presets for LLVM 1.5.2

```
==============================================================================
LLVM Release License
==============================================================================
University of Illinois/NCSA
Open Source License

Copyright (c) 2003-2018 University of Illinois at Urbana-Champaign.
All rights reserved.

Developed by:

    LLVM Team

    University of Illinois at Urbana-Champaign

    http://llvm.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 with
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimers.

    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimers in the
      documentation and/or other materials provided with the distribution.

    * Neither the names of the LLVM Team, University of Illinois at
      Urbana-Champaign, nor the names of its contributors may be used to
      endorse or promote products derived from this Software without
 specific
      prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH
 THE
SOFTWARE.

==============================================================================
Copyrights and Licenses for Third Party Software Distributed with LLVM:
==============================================================================
The LLVM software contains code written by third parties.  Such software
 will
have its own individual LICENSE.TXT file in the directory in which it
 appears.
This file will describe the copyrights, license, and restrictions which
 apply
to that code.

The disclaimer of warranty in the University of Illinois Open Source License
applies to all code in the LLVM Distribution, and nothing in any of the
other licenses gives permission to use the names of the LLVM Team or the
University of Illinois to endorse or promote products derived from this
Software.

The following pieces of software have additional or alternate copyrights,
licenses, and/or restrictions:

Program             Directory
-------             ---------
Google Test         llvm/utils/unittest/googletest
OpenBSD regex       llvm/lib/Support/{reg*, COPYRIGHT.regex}
pyyaml tests        llvm/test/YAMLParser/{*.data, LICENSE.TXT}
ARM contributions   llvm/lib/Target/ARM/LICENSE.TXT
md5 contributions   llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h

-------------- COPYRIGHT NOTICE --------------------
/*
 * Copyright (C) 2014-2019 Samuel Audet
 *
 * Licensed either under the Apache License, Version 2.0, or (at your
 option)
 * under the terms of the GNU General Public License as published by
 * the Free Software Foundation (subject to the "Classpath" exception),
 * either version 2, or any later version (collectively, the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *     http://www.gnu.org/licenses/
 *     http://www.gnu.org/software/classpath/license.html
 *
 * or as provided in the LICENSE.txt file that accompanied this code.
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Provider: Saurabh Kumar / Component(s): python-dotenv 1.0.1

```
Copyright (c) 2014, Saurabh Kumar (python-dotenv), 2013, Ted Tieken (django-
dotenv-rw), 2013, Jacob Kaplan-Moss (django-dotenv)
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

- Neither the name of django-dotenv nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: scikit-learn developers / Component(s): scikit-learn 1.2.2

```
BSD 3-Clause License

Copyright (c) 2007-2023 The scikit-learn developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==================== Package: scipy ==========================
Name: scipy
Source code URL: https://github.com/scipy/scipy
License: BSD 3-Clause "New" or "Revised" License

===================== Dependencies ==========================
boost-headers-only (Boost Software License 1.0) [https:/github.com/scipy/
boost-headers-only]
scipy-mathjax (Apache License 2.0) [https:/github.com/scipy/scipy-mathjax]
SVML (BSD 3-Clause "New" or "Revised" License) [https:/github.com/numpy/
SVML]
numpy (BSD 3-Clause "New" or "Revised" License) [https://github.com/numpy/
numpy]
dragon4, embedded dependency of numpy (MIT) [numpy/core/src/multiarray/
dragon4.c]
Faddeeva, embedded dependency of scipy (MIT) [scipy/special/Faddeeva.*]
lapack-lite, embedded dependency of numpy (BSD-3-Clause) [numpy/linalg/
lapack_lite/*]
Boost, embedded dependency of scipy (Boost Software License - Version 1.0)
 [scipy/_lib/boost/*]
HiGHS, embedded dependency of scipy (MIT) [scipy/optimize/_highs/*]
ampgo, embedded dependency of scipy (MIT) [benchmarks/benchmarks/
go_benchmark_functions/*.py]
uarray, embedded dependency of scipy (3-Clause BSD) [scipy/_lib/uarray/*]
pypocketfft, embedded dependency of scipy (3-Clause BSD) [scipy/fft/
_pocketfft/[pocketfft.h, pypocketfft.cxx]]
qd, embedded dependency of scipy (modified BSD license ("BSD-LBNL-
License.doc")) [scipy/special/cephes/dd_*.[ch]]
Cephes, embedded dependency of scipy (3-clause BSD) [scipy/special/cephes/*]
tempita, embedded dependency of numpy (MIT) [tools/npy_tempita/*]
Qhull, embedded dependency of scipy (Qhull license (BSD-like)) [scipy/
spatial/qhull/*]
libdivide, embedded dependency of numpy (Zlib) [numpy/core/include/numpy/
libdivide/*]
SuperLU, embedded dependency of scipy (3-clause BSD) [scipy/sparse/linalg/
dsolve/SuperLU/*]
LAPJVsp, embedded dependency of scipy (3-clause BSD) [scipy/sparse/csgraph/
_matching.pyx]
L-BFGS-B, embedded dependency of scipy (BSD license) [scipy/optimize/lbfgsb/
*]
ID, embedded dependency of scipy (3-clause BSD) [scipy/linalg/src/id_dist/*]
Decorator, embedded dependency of scipy (2-clause BSD) [scipy/_lib/
decorator.py]
ARPACK, embedded dependency of scipy (3-clause BSD) [scipy/sparse/linalg/
eigen/arpack/ARPACK/*]
Biasedurn, embedded dependency of scipy (3-clause BSD) [scipy/stats/
biasedurn/*]
UNU.RAN, embedded dependency of scipy (3-clause BSD) [scipy/_lib/unuran/*]
NumPy, embedded dependency of scipy (3-clause BSD) [scipy/stats/_rcont/
[logfactorial.h,logfactorial.c]]

===================== Licenses ==========================

----------- scipy (BSD 3-Clause "New" or "Revised" License) [https://
github.com/scipy/scipy] -----------
Copyright notice(s):

Copyright (c) 2001-2002 Enthought, Inc. 2003-2022, SciPy Developers.
All rights reserved.


Copyright (c) 2001-2002 Enthought, Inc. 2003-2022, SciPy Developers.
```

```
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.
3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


===================== Bundled License: scipy ==========================
The SciPy repository and source distributions bundle a number of libraries
 that
are compatibly licensed.  We list these here.

Name: Decorator
Files: scipy/_lib/decorator.py
License: 2-clause BSD
  For details, see the header inside scipy/_lib/decorator.py

Name: ID
Files: scipy/linalg/src/id_dist/*
License: 3-clause BSD
  For details, see scipy/linalg/src/id_dist/doc/doc.tex

Name: L-BFGS-B
Files: scipy/optimize/lbfgsb/*
License: BSD license
  For details, see scipy/optimize/lbfgsb/README

Name: LAPJVsp
Files: scipy/sparse/csgraph/_matching.pyx
License: 3-clause BSD
Copyright 1987-, A. Volgenant/Amsterdam School of Economics,
                 University of Amsterdam

  Distributed under 3-clause BSD license with permission from
  University of Amsterdam.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
```

```
     this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

  3. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
    without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
  POSSIBILITY OF SUCH DAMAGE.


Name: SuperLU
Files: scipy/sparse/linalg/dsolve/SuperLU/*
License: 3-clause BSD
  For details, see scipy/sparse/linalg/dsolve/SuperLU/License.txt

Name: ARPACK
Files: scipy/sparse/linalg/eigen/arpack/ARPACK/*
License: 3-clause BSD
  For details, see scipy/sparse/linalg/eigen/arpack/ARPACK/COPYING

Name: Qhull
Files: scipy/spatial/qhull/*
License: Qhull license (BSD-like)
  For details, see scipy/spatial/qhull/COPYING.txt

Name: Cephes
Files: scipy/special/cephes/*
License: 3-clause BSD
  Distributed under 3-clause BSD license with permission from the author,
  see https://lists.debian.org/debian-legal/2004/12/msg00295.html

  Cephes Math Library Release 2.8:  June, 2000
  Copyright 1984, 1995, 2000 by Stephen L. Moshier

  This software is derived from the Cephes Math Library and is
  incorporated herein by permission of the author.

  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:
      * Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.
      * Neither the name of the <organization> nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.
```

```
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
  WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
  DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
  DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
  (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
  LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
  ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
  SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: Faddeeva
Files: scipy/special/Faddeeva.*
License: MIT
  Copyright (c) 2012 Massachusetts Institute of Technology

  Permission is hereby granted, free of charge, to any person obtaining
  a copy of this software and associated documentation files (the
  "Software"), to deal in the Software without restriction, including
  without limitation the rights to use, copy, modify, merge, publish,
  distribute, sublicense, and/or sell copies of the Software, and to
  permit persons to whom the Software is furnished to do so, subject to
  the following conditions:

  The above copyright notice and this permission notice shall be
  included in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: qd
Files: scipy/special/cephes/dd_*.[ch]
License: modified BSD license ("BSD-LBNL-License.doc")
  This work was supported by the Director, Office of Science, Division
  of Mathematical, Information, and Computational Sciences of the
  U.S. Department of Energy under contract numbers DE-AC03-76SF00098 and
  DE-AC02-05CH11231.

  Copyright (c) 2003-2009, The Regents of the University of California,
  through Lawrence Berkeley National Laboratory (subject to receipt of
  any required approvals from U.S. Dept. of Energy) All rights reserved.

  1. Redistribution and use in source and binary forms, with or
  without modification, are permitted provided that the following
  conditions are met:

  (1) Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.

  (2) Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.
```

```
  (3) Neither the name of the University of California, Lawrence
  Berkeley National Laboratory, U.S. Dept. of Energy nor the names
  of its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

  2. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  3. You are under no obligation whatsoever to provide any bug fixes,
  patches, or upgrades to the features, functionality or performance of
  the source code ("Enhancements") to anyone; however, if you choose to
  make your Enhancements available either publicly, or directly to
  Lawrence Berkeley National Laboratory, without imposing a separate
  written license agreement for such Enhancements, then you hereby grant
  the following license: a non-exclusive, royalty-free perpetual license
  to install, use, modify, prepare derivative works, incorporate into
  other computer software, distribute, and sublicense such enhancements
  or derivative works thereof, in binary and source code form.

Name: pypocketfft
Files: scipy/fft/_pocketfft/[pocketfft.h, pypocketfft.cxx]
License: 3-Clause BSD
  For details, see scipy/fft/_pocketfft/LICENSE.md

Name: uarray
Files: scipy/_lib/uarray/*
License: 3-Clause BSD
  For details, see scipy/_lib/uarray/LICENSE

Name: ampgo
Files: benchmarks/benchmarks/go_benchmark_functions/*.py
License: MIT
  Functions for testing global optimizers, forked from the AMPGO project,
  https://code.google.com/archive/p/ampgo

Name: pybind11
Files: no source files are included, however pybind11 binary artifacts are
  included with every binary build of SciPy.
License:
  Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights
 reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
 this
     list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
```

```
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  3. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
  WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE
  FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: HiGHS
Files: scipy/optimize/_highs/*
License: MIT
  For details, see scipy/optimize/_highs/LICENCE

Name: Boost
Files: scipy/_lib/boost/*
License: Boost Software License - Version 1.0
  For details, see scipy/_lib/boost/LICENSE_1_0.txt

Name: Biasedurn
Files: scipy/stats/biasedurn/*
License 3-Clause BSD
  For details, see scipy/stats/biasedurn/license.txt

Name: UNU.RAN
Files: scipy/_lib/unuran/*
License 3-Clause BSD
  For details, see scipy/_lib/unuran/license.txt

Name: NumPy
Files: scipy/stats/_rcont/[logfactorial.h,logfactorial.c]
License 3-Clause BSD
  For details, see header inside scipy/stats/_rcont/logfactorial.h
  and scipy/stats/_rcont/logfactorial.c

----------- boost-headers-only (Boost Software License 1.0) [https:/
github.com/scipy/boost-headers-only] -----------
Copyright notice(s):
The MIT License (MIT)

Copyright (c) 2014 Povilas Balciunas


License fulltext:
Boost Software License - Version 1.0 - August 17th, 2003
Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
```

```
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:
The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

----------- scipy-mathjax (Apache License 2.0) [https:/github.com/scipy/
scipy-mathjax] -----------
Copyright notice(s):
Copyright (c) 2010-2017 The MathJax Consortium


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
```

```
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


----------- SVML (BSD 3-Clause "New" or "Revised" License) [https:/
github.com/numpy/SVML] -----------
Copyright notice(s):
Copyright (c) 2005-2021, NumPy Developers.

All rights reserved.


License fulltext:
Copyright (c) 2005-2021, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- numpy (BSD 3-Clause "New" or "Revised" License) [https://
github.com/numpy/numpy] -----------
Copyright notice(s):


Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.


Copyright (c) 2019 Kevin Sheppard. All rights reserved.


Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.


Copyright (c) 2005-2017, NumPy Developers. All rights reserved.
```

```
Copyright 2010-2012, D. E. Shaw Research.
All rights reserved.


Copyright 2014 Melissa O'Neill <oneill@pcg-random.org>


Copyright (c) 2008 Ian Bicking and Contributors


Copyright (c) 2018 Melissa E. O'Neill


Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant


Copyright (C) 2010 The Android Open Source Project


Copyright (c) 2008 Ian Bicking and Contributors


Copyright (c) 2018 Melissa E. O'Neill


Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant


License fulltext:
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------- BUNDLED_license.txt: numpy [https://github.com/numpy/numpy]
 -----------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.
```

```
Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

----------- dragon4, embedded dependency of numpy (MIT) [numpy/core/src/
multiarray/dragon4.c] -----------
Copyright notice(s):
Copyright (c) 2014 Ryan Juckett


License fulltext:
/*
 * Copyright (c) 2014 Ryan Juckett
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 copy
 * of this software and associated documentation files (the "Software"), to
 * deal in the Software without restriction, including without limitation
 the
 * rights to use, copy, modify, merge, publish, distribute, sublicense, and/
or
 * sell copies of the Software, and to permit persons to whom the Software
 is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
 * IN THE SOFTWARE.
 */
/*
 * This file contains a modified version of Ryan Juckett's Dragon4
 * implementation, obtained from http://www.ryanjuckett.com,
 * which has been ported from C++ to C and which has
 * modifications specific to printing floats in numpy.
 *
 * Ryan Juckett's original code was under the Zlib license; he gave numpy
 * permission to include it under the MIT license instead.
```

```
 */

----------- Faddeeva, embedded dependency of scipy (MIT) [scipy/special/
Faddeeva.*] -----------
Copyright notice(s):
Copyright (c) 2012 Massachusetts Institute of Technology



License fulltext:
Copyright (c) 2012 Massachusetts Institute of Technology
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------- lapack-lite, embedded dependency of numpy (BSD-3-Clause) [numpy/
linalg/lapack_lite/*] -----------
Copyright notice(s):
Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.


License fulltext:
Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.
$COPYRIGHT$
Additional copyrights may follow
$HEADER$
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.
- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
The copyright holders provide no reassurances that the source code
```

```
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- Boost, embedded dependency of scipy (Boost Software License -
 Version 1.0) [scipy/_lib/boost/*] -----------
Copyright notice(s):
Copyright Beman Dawes, David Abrahams, 1998-2005.
Copyright Rene Rivera 2004-2007.



License fulltext:
Boost Software License - Version 1.0 - August 17th, 2003
Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:
The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

----------- HiGHS, embedded dependency of scipy (MIT) [scipy/optimize/
_highs/*] -----------
Copyright notice(s):
MIT License

Copyright (c) 2020 ERGO-Code


License fulltext:
MIT License
Copyright (c) 2020 ERGO-Code
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- ampgo, embedded dependency of scipy (MIT) [benchmarks/
benchmarks/go_benchmark_functions/*.py] -----------
Copyright notice(s):
Copyright 2010 by by Christoph Zwerschke.


Copyright 2013, Andrea Gavana.


License fulltext:
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------- uarray, embedded dependency of scipy (3-Clause BSD) [scipy/_lib/
uarray/*] -----------
Copyright notice(s):

Copyright (c) 2018, Quansight-Labs


License fulltext:
BSD 3-Clause License
Copyright (c) 2018, Quansight-Labs
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- pypocketfft, embedded dependency of scipy (3-Clause BSD) [scipy/
fft/_pocketfft/[pocketfft.h, pypocketfft.cxx]] -----------
Copyright notice(s):
Copyright (C) 2010-2019 Max-Planck-Society All rights reserved.
Copyright (C) 2019-2020 Peter Bell
Copyright (C) 2003, 2007-14 Matteo Frigo 9
Copyright (C) 2003, 2007-14 Massachusetts Institute of Technology



License fulltext:
Copyright (C) 2010-2019 Max-Planck-Society
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its contributors
 may
  be used to endorse or promote products derived from this software without
  specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- qd, embedded dependency of scipy (modified BSD license ("BSD-
LBNL-License.doc")) [scipy/special/cephes/dd_*.[ch]] -----------
Copyright notice(s):
Copyright 2018 C. Diez
copyright: Copyright 2007-2019 by the Sphinx team, see AUTHORS.
Copyright 2017, C. Diez, D. Toewe
Copyright 2016 Dirk Toewe
```

```
License fulltext:
License: modified BSD license ("BSD-LBNL-License.doc")
  This work was supported by the Director, Office of Science, Division
  of Mathematical, Information, and Computational Sciences of the
  U.S. Department of Energy under contract numbers DE-AC03-76SF00098 and
  DE-AC02-05CH11231.
  Copyright (c) 2003-2009, The Regents of the University of California,
  through Lawrence Berkeley National Laboratory (subject to receipt of
  any required approvals from U.S. Dept. of Energy) All rights reserved.
  1. Redistribution and use in source and binary forms, with or
  without modification, are permitted provided that the following
  conditions are met:
  (1) Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
  (2) Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.
  (3) Neither the name of the University of California, Lawrence
  Berkeley National Laboratory, U.S. Dept. of Energy nor the names
  of its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.
  2. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  3. You are under no obligation whatsoever to provide any bug fixes,
  patches, or upgrades to the features, functionality or performance of
  the source code ("Enhancements") to anyone; however, if you choose to
  make your Enhancements available either publicly, or directly to
  Lawrence Berkeley National Laboratory, without imposing a separate
  written license agreement for such Enhancements, then you hereby grant
  the following license: a non-exclusive, royalty-free perpetual license
  to install, use, modify, prepare derivative works, incorporate into
  other computer software, distribute, and sublicense such enhancements
  or derivative works thereof, in binary and source code form.

----------- Cephes, embedded dependency of scipy (3-clause BSD) [scipy/
special/cephes/*] -----------
Copyright notice(s):
Cephes Math Library Release 2.8:  June, 2000
Copyright 1984, 1995, 2000 by Stephen L. Moshier


License fulltext:
Distributed under 3-clause BSD license with permission from the author,
see https://lists.debian.org/debian-legal/2004/12/msg00295.html
Cephes Math Library Release 2.8:June, 2000
Copyright 1984, 1995, 2000 by Stephen L. Moshier
This software is derived from the Cephes Math Library and is
incorporated herein by permission of the author.
All rights reserved.
Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
* Neither the name of the <organization> nor the
names of its contributors may be used to endorse or promote products
derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- tempita, embedded dependency of numpy (MIT) [tools/npy_tempita/
*] -----------
Copyright notice(s):
Copyright 2015 - 2018, PyroScope Project Revision e8ededb6.


License fulltext:
License
-------
Copyright (c) 2008 Ian Bicking and Contributors
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------- Qhull, embedded dependency of scipy (Qhull license (BSD-like))
 [scipy/spatial/qhull/*] -----------
Copyright notice(s):
                    Qhull, Copyright (c) 1993-2019

                            C.B. Barber
                           Arlington, MA

                               and

       The National Science and Technology Research Center for
        Computation and Visualization of Geometric Structures
                        (The Geometry Center)
                      University of Minnesota
```

```
License fulltext:
                    Qhull, Copyright (c) 1993-2019

                            C.B. Barber
                           Arlington, MA

                                and
       The National Science and Technology Research Center for
        Computation and Visualization of Geometric Structures
                        (The Geometry Center)
                      University of Minnesota
                      email: qhull@qhull.org
This software includes Qhull from C.B. Barber and The Geometry Center.
Qhull is copyrighted as noted above.  Qhull is free software and may
be obtained via http from www.qhull.org.  It may be freely copied,
 modified,
and redistributed under the following conditions:
1. All copyright notices must remain intact in all files.
2. A copy of this text file must be distributed along with any copies
   of Qhull that you redistribute; this includes copies that you have
   modified, or copies of programs or other software products that
   include Qhull.
3. If you modify Qhull, you must include a notice giving the
   name of the person performing the modification, the date of
   modification, and the reason for such modification.
4. When distributing modified versions of Qhull, or other software
   products that include Qhull, you must provide notice that the original
   source code may be obtained as noted above.
5. There is no warranty or other guarantee of fitness for Qhull, it is
   provided solely "as is".  Bug reports or fixes may be sent to
   qhull_bug@qhull.org; the authors may or may not act on them as
   they desire.

----------- libdivide, embedded dependency of numpy (Zlib) [numpy/core/
include/numpy/libdivide/*] -----------
Copyright notice(s):
Copyright (C) 2010 - 2021 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2021 Kim Walisch, <kim.walisch@gmail.com>


License fulltext:
  zlib License
  ------------
  Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>
  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.
  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:
  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

----------- SuperLU, embedded dependency of scipy (3-clause BSD) [scipy/
sparse/linalg/dsolve/SuperLU/*] -----------
Copyright notice(s):
```

```
Copyright (c) 2003, The Regents of the University of California, through
Lawrence Berkeley National Laboratory (subject to receipt of any required
approvals from U.S. Dept. of Energy)


License fulltext:
Copyright (c) 2003, The Regents of the University of California, through
Lawrence Berkeley National Laboratory (subject to receipt of any required
approvals from U.S. Dept. of Energy)
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
(1) Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
(2) Redistributions in binary form must reproduce the above copyright
 notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
(3) Neither the name of Lawrence Berkeley National Laboratory, U.S. Dept. of
Energy nor the names of its contributors may be used to endorse or promote
products derived from this software without specific prior written
 permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- LAPJVsp, embedded dependency of scipy (3-clause BSD) [scipy/
sparse/csgraph/_matching.pyx] -----------
Copyright notice(s):
Copyright 1987-, A. Volgenant/Amsterdam School of Economics,
                 University of Amsterdam


License fulltext:
Copyright 1987-, A. Volgenant/Amsterdam School of Economics,
                 University of Amsterdam
  Distributed under 3-clause BSD license with permission from
  University of Amsterdam.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:
  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
  3. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
    without specific prior written permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
  POSSIBILITY OF SUCH DAMAGE.

----------- L-BFGS-B, embedded dependency of scipy (BSD license) [scipy/
optimize/lbfgsb/*] -----------
Copyright notice(s):
Copyright (c) 2004 David M. Cooke <cookedm@physics.mcmaster.ca>


License fulltext:
This is a Python wrapper (using F2PY) written by David M. Cooke
<cookedm@physics.mcmaster.ca> and released as version 0.9 on April 9, 2004.
The wrapper was slightly modified by Joonas Paalasmaa for the 3.0 version
in March 2012.
License for the Python wrapper
==============================
Copyright (c) 2004 David M. Cooke <cookedm@physics.mcmaster.ca>
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
     - l-bfgs-b (fortran code embedded in wrapper) (BSD)
License of L-BFGS-B (Fortran code)
==================================
The version included here (in lbfgsb.f) is 3.0 (released April 25, 2011). It
 was
written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal <nocedal@ece.nwu.edu>.
 It
carries the following condition for use:
  """
  This software is freely available, but we expect that all publications
  describing work using this software, or all commercial products using it,
  quote at least one of the references given below. This software is
 released
  under the BSD License.

  References
    * R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound
      Constrained Optimization, (1995), SIAM Journal on Scientific and
      Statistical Computing, 16, 5, pp. 1190-1208.
```

```
    * C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B,
      FORTRAN routines for large scale bound constrained optimization
 (1997),
      ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.
    * J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-
BFGS-B,
      FORTRAN routines for large scale bound constrained optimization
 (2011),
      ACM Transactions on Mathematical Software, 38, 1.

----------- ID, embedded dependency of scipy (3-clause BSD) [scipy/linalg/
src/id_dist/*] -----------
Copyright notice(s):
Copyright copyright 2014 by P.-G. Martinsson, V. Rokhlin, Y. Shkolnisky, and
 M. Tygert.
All rights reserved.


License fulltext:
BSD 3-Clause License
Copyright copyright 2014 by P.-G. Martinsson, V. Rokhlin, Y. Shkolnisky, and
 M. Tygert.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- Decorator, embedded dependency of scipy (2-clause BSD) [scipy/
_lib/decorator.py] -----------
Copyright notice(s):
Copyright (c) 2005-2015, Michele Simionato
All rights reserved.


License fulltext:
Copyright (c) 2005-2015, Michele Simionato
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
  Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
  Redistributions in bytecode form must reproduce the above copyright
```

```
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

----------- ARPACK, embedded dependency of scipy (3-clause BSD) [scipy/
sparse/linalg/eigen/arpack/ARPACK/*] -----------
Copyright notice(s):
Copyright (c) 1996-2008 Rice University.
Developed by D.C. Sorensen, R.B. Lehoucq, C. Yang, and K. Maschhoff.
All rights reserved.



License fulltext:
ARPACK is a collection of Fortran77 subroutines designed to solve large
scale eigenvalue problems.
The package is designed to compute a few eigenvalues and corresponding
eigenvectors of a general n by n matrix A. It is most appropriate for large
sparse or structured matrices A where structured means that a matrix-vector
product w <- Av requires order n rather than the usual order n**2 floating
point operations. This software is based upon an algorithmic variant of the
Arnoldi process called the Implicitly Restarted Arnoldi Method (IRAM). When
the matrix A is symmetric it reduces to a variant of the Lanczos process
called the Implicitly Restarted Lanczos Method (IRLM). These variants may be
viewed as a synthesis of the Arnoldi/Lanczos process with the Implicitly
Shifted QR technique that is suitable for large scale problems. For many
standard problems, a matrix factorization is not required. Only the action
of the matrix on a vector is needed.  ARPACK software is capable of solving
large scale symmetric, nonsymmetric, and generalized eigenproblems from
significant application areas. The software is designed to compute a few (k)
eigenvalues with user specified features such as those of largest real part
or largest magnitude.  Storage requirements are on the order of n*k
 locations.
No auxiliary storage is required. A set of Schur basis vectors for the
 desired
k-dimensional eigen-space is computed which is numerically orthogonal to
 working
precision. Numerically accurate eigenvectors are available on request.
Important Features:
    o  Reverse Communication Interface.
    o  Single and Double Precision Real Arithmetic Versions for Symmetric,
       Non-symmetric, Standard or Generalized Problems.
    o  Single and Double Precision Complex Arithmetic Versions for Standard
       or Generalized Problems.
    o  Routines for Banded Matrices - Standard or Generalized Problems.
    o  Routines for The Singular Value Decomposition.
    o  Example driver routines that may be used as templates to implement
       numerous Shift-Invert strategies for all problem types, data types
       and precision.
---
The ARPACK license is the BSD 3-clause license ("New BSD License")
http://www.caam.rice.edu/software/ARPACK/RiceBSD.txt
```

```
---
BSD Software License
Pertains to ARPACK and P_ARPACK
Copyright (c) 1996-2008 Rice University.
Developed by D.C. Sorensen, R.B. Lehoucq, C. Yang, and K. Maschhoff.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.
- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- Biasedurn, embedded dependency of scipy (3-clause BSD) [scipy/
stats/biasedurn/*] -----------
License fulltext:
---------- Forwarded message ---------
From: Agner Fog <agner@agner.org>
Date: Wed, Jul 22, 2020 at 8:54 PM
Subject: Re: Add BiasedUrn to SciPy?
To: Matt Haberland <mhaberla@calpoly.edu>
Cc: Warren Weckesser <warren.weckesser@gmail.com>

Dear Matt The C++ code for these distributions without binding to the R
 project
are available here:
https://www.agner.org/random/stocc.zip
You have my permission to use it in SciPy under the new BSD license.
Best regards,
Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:
Hi Agner, I'm a maintainer of the Python scientific computing library
 SciPy,
and I'm working on improving the capabilities of our statistics subpackage
scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral
hypergeometric distributions, but these look quite challenging to implement.
We found your BiasedUrn package, and we'd love to wrap it, but we can't
include GPL-3 licensed code under our BSD-new license. Would you consider
re-licensing BiasedUrn under a more permissive license, such as BSD-new or
MIT, so we can include it in SciPy?
Thank you for considering it!
Matt
--
Matt Haberland
Assistant Professor
BioResource and Agricultural Engineering
```

```
08A-3K, Cal Poly

----------- UNU.RAN, embedded dependency of scipy (3-clause BSD) [scipy/
_lib/unuran/*] -----------
License fulltext:
Permission was granted on 23 March 2021 by Josef Leydold
 (josef.leydold@wu.ac.at) and Wolfgang Hoermann (hormannw@bound.edu.tr)
to use the UNU.RAN code excluding the uniform random number generator in
 src/uniform/mrg31k3p.c (copyright by Renee Touzin)
under the BSD licence. The following files have been removed from the
 original library:

    unuran-1.8.1/COPYING
    unuran-1.8.1/INSTALL
    unuran-1.8.1/Makefile.am
    unuran-1.8.1/Makefile.in
    unuran-1.8.1/NEWS
    unuran-1.8.1/UPGRADE
    unuran-1.8.1/acinclude.m4
    unuran-1.8.1/aclocal.m4
    unuran-1.8.1/autoconf/config.guess
    unuran-1.8.1/autoconf/config.sub
    unuran-1.8.1/autoconf/depcomp
    unuran-1.8.1/autoconf/install-sh
    unuran-1.8.1/autoconf/ltmain.sh
    unuran-1.8.1/autoconf/mdate-sh
    unuran-1.8.1/autoconf/missing
    unuran-1.8.1/autogen.sh
    unuran-1.8.1/configure
    unuran-1.8.1/doc/Makefile.am
    unuran-1.8.1/doc/Makefile.in
    unuran-1.8.1/doc/figures/Makefile.am
    unuran-1.8.1/doc/figures/Makefile.in
    unuran-1.8.1/doc/figures/discrete_inversion.eps
    unuran-1.8.1/doc/figures/discrete_inversion.pdf
    unuran-1.8.1/doc/figures/discrete_inversion.png
    unuran-1.8.1/doc/figures/discrete_inversion.txt
    unuran-1.8.1/doc/figures/inversion.eps
    unuran-1.8.1/doc/figures/inversion.pdf
    unuran-1.8.1/doc/figures/inversion.png
    unuran-1.8.1/doc/figures/inversion.txt
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.eps
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.pdf
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.png
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.txt
    unuran-1.8.1/doc/figures/rou-cauchy.eps
    unuran-1.8.1/doc/figures/rou-cauchy.pdf
    unuran-1.8.1/doc/figures/rou-cauchy.png
    unuran-1.8.1/doc/figures/rou-cauchy.txt
    unuran-1.8.1/doc/figures/texpict2img.pl
    unuran-1.8.1/doc/src/Makefile.am
    unuran-1.8.1/doc/src/Makefile.in
    unuran-1.8.1/doc/src/README
    unuran-1.8.1/doc/src/arvag.dh
    unuran-1.8.1/doc/src/error_debug.dh
    unuran-1.8.1/doc/src/examples.dh
    unuran-1.8.1/doc/src/glossary.dh
    unuran-1.8.1/doc/src/index.dh
    unuran-1.8.1/doc/src/installation.dh
    unuran-1.8.1/doc/src/intro.dh
    unuran-1.8.1/doc/src/make_texi.pl
    unuran-1.8.1/doc/src/methods.dh
    unuran-1.8.1/doc/src/methods_cemp.texi
    unuran-1.8.1/doc/src/methods_cont.texi
```

```
    unuran-1.8.1/doc/src/methods_cvec.texi
    unuran-1.8.1/doc/src/methods_cvemp.texi
    unuran-1.8.1/doc/src/methods_discr.texi
    unuran-1.8.1/doc/src/methods_matr.texi
    unuran-1.8.1/doc/src/methods_mcmc.texi
    unuran-1.8.1/doc/src/misc.dh
    unuran-1.8.1/doc/src/ref_example0.texi
    unuran-1.8.1/doc/src/ref_example0_str.texi
    unuran-1.8.1/doc/src/ref_example1.texi
    unuran-1.8.1/doc/src/ref_example1_str.texi
    unuran-1.8.1/doc/src/ref_example2.texi
    unuran-1.8.1/doc/src/ref_example2_str.texi
    unuran-1.8.1/doc/src/ref_example3.texi
    unuran-1.8.1/doc/src/ref_example3_str.texi
    unuran-1.8.1/doc/src/ref_example_FuncStr.texi
    unuran-1.8.1/doc/src/ref_example_anti.texi
    unuran-1.8.1/doc/src/ref_example_anti_str.texi
    unuran-1.8.1/doc/src/ref_example_cext.texi
    unuran-1.8.1/doc/src/ref_example_cont.texi
    unuran-1.8.1/doc/src/ref_example_cont_str.texi
    unuran-1.8.1/doc/src/ref_example_dext.texi
    unuran-1.8.1/doc/src/ref_example_discr.texi
    unuran-1.8.1/doc/src/ref_example_discr_str.texi
    unuran-1.8.1/doc/src/ref_example_emp.texi
    unuran-1.8.1/doc/src/ref_example_emp_str.texi
    unuran-1.8.1/doc/src/ref_example_gsl.texi
    unuran-1.8.1/doc/src/ref_example_mixt.texi
    unuran-1.8.1/doc/src/ref_example_mixt_inv.texi
    unuran-1.8.1/doc/src/ref_example_rngstreams.texi
    unuran-1.8.1/doc/src/ref_example_vemp.texi
    unuran-1.8.1/doc/src/ref_example_win32_1.texi
    unuran-1.8.1/doc/src/ref_example_win32_2.texi
    unuran-1.8.1/doc/src/references.dh
    unuran-1.8.1/doc/src/stddist.dh
    unuran-1.8.1/doc/src/texinfo.tex
    unuran-1.8.1/doc/src/top.dh
    unuran-1.8.1/doc/src/unuran_src.texi
    unuran-1.8.1/doc/stamp-1
    unuran-1.8.1/doc/stamp-vti
    unuran-1.8.1/doc/unuran.html
    unuran-1.8.1/doc/unuran.info
    unuran-1.8.1/doc/unuran.pdf
    unuran-1.8.1/doc/unuran.texi
    unuran-1.8.1/doc/unuran.txt
    unuran-1.8.1/doc/unuran_win32.html
    unuran-1.8.1/doc/unuran_win32.info
    unuran-1.8.1/doc/unuran_win32.pdf
    unuran-1.8.1/doc/unuran_win32.texi
    unuran-1.8.1/doc/unuran_win32_libname.texi
    unuran-1.8.1/doc/version.texi
    unuran-1.8.1/doc/version_win32.texi
    unuran-1.8.1/examples/Makefile.am
    unuran-1.8.1/examples/Makefile.in
    unuran-1.8.1/examples/example0.c
    unuran-1.8.1/examples/example0_str.c
    unuran-1.8.1/examples/example1.c
    unuran-1.8.1/examples/example1_str.c
    unuran-1.8.1/examples/example2.c
    unuran-1.8.1/examples/example2_str.c
    unuran-1.8.1/examples/example3.c
    unuran-1.8.1/examples/example3_str.c
    unuran-1.8.1/examples/example_FuncStr.c
    unuran-1.8.1/examples/example_anti.c
    unuran-1.8.1/examples/example_anti_str.c
```

```
    unuran-1.8.1/examples/example_cext.c
    unuran-1.8.1/examples/example_cont.c
    unuran-1.8.1/examples/example_cont_str.c
    unuran-1.8.1/examples/example_cpp.cpp
    unuran-1.8.1/examples/example_dext.c
    unuran-1.8.1/examples/example_discr.c
    unuran-1.8.1/examples/example_discr_str.c
    unuran-1.8.1/examples/example_emp.c
    unuran-1.8.1/examples/example_emp_str.c
    unuran-1.8.1/examples/example_errorhandler.c
    unuran-1.8.1/examples/example_gsl.c
    unuran-1.8.1/examples/example_mcorr.c
    unuran-1.8.1/examples/example_mixt.c
    unuran-1.8.1/examples/example_mixt_inv.c
    unuran-1.8.1/examples/example_prng.c
    unuran-1.8.1/examples/example_prng_str.c
    unuran-1.8.1/examples/example_rngstreams.c
    unuran-1.8.1/examples/example_vemp.c
    unuran-1.8.1/experiments/Makefile.am
    unuran-1.8.1/experiments/Makefile.in
    unuran-1.8.1/experiments/make_timing_table.c
    unuran-1.8.1/experiments/timings_chap_10.conf
    unuran-1.8.1/experiments/timings_chap_8.conf
    unuran-1.8.1/scripts/Makefile.am
    unuran-1.8.1/scripts/Makefile.in
    unuran-1.8.1/scripts/compute_machine_constants.c
    unuran-1.8.1/scripts/make_urng_header.pl
    unuran-1.8.1/scripts/merge_h.pl
    unuran-1.8.1/scripts/read_PDF.pl
    unuran-1.8.1/scripts/remove_comments.pl
    unuran-1.8.1/scripts/run_valgrind.sh
    unuran-1.8.1/scripts/win32/Makefile.win32
    unuran-1.8.1/scripts/win32/build.sh
    unuran-1.8.1/scripts/win32/example1.c
    unuran-1.8.1/scripts/win32/example2.c
    unuran-1.8.1/scripts/win32/make_dll_def.pl
    unuran-1.8.1/src/Makefile.am
    unuran-1.8.1/src/Makefile.in
    unuran-1.8.1/src/README
    unuran-1.8.1/src/distr/Makefile.am
    unuran-1.8.1/src/distr/Makefile.in
    unuran-1.8.1/src/distributions/Makefile.am
    unuran-1.8.1/src/distributions/Makefile.in
    unuran-1.8.1/src/distributions/README
    unuran-1.8.1/src/methods/Makefile.am
    unuran-1.8.1/src/methods/Makefile.in
    unuran-1.8.1/src/parser/Makefile.am
    unuran-1.8.1/src/parser/Makefile.in
    unuran-1.8.1/src/parser/functparser_doc.dh
    unuran-1.8.1/src/parser/make_stringparser.pl
    unuran-1.8.1/src/parser/stringparser_doc.dh
    unuran-1.8.1/src/specfunct/Makefile.am
    unuran-1.8.1/src/specfunct/Makefile.in
    unuran-1.8.1/src/tests/Makefile.am
    unuran-1.8.1/src/tests/Makefile.in
    unuran-1.8.1/src/uniform/Makefile.am
    unuran-1.8.1/src/uniform/Makefile.in
    unuran-1.8.1/src/uniform/fish.c
    unuran-1.8.1/src/uniform/mrg31k3p.c
    unuran-1.8.1/src/uniform/mstd.c
    unuran-1.8.1/src/uniform/unuran_urng_gsl.h
    unuran-1.8.1/src/uniform/unuran_urng_prng.h
    unuran-1.8.1/src/uniform/unuran_urng_rngstreams.h
    unuran-1.8.1/src/uniform/urng_builtin.c
```

```
    unuran-1.8.1/src/uniform/urng_builtin.h
    unuran-1.8.1/src/uniform/urng_fvoid.c
    unuran-1.8.1/src/uniform/urng_fvoid.h
    unuran-1.8.1/src/uniform/urng_gsl.c
    unuran-1.8.1/src/uniform/urng_gsl.h
    unuran-1.8.1/src/uniform/urng_gslqrng.c
    unuran-1.8.1/src/uniform/urng_gslqrng.h
    unuran-1.8.1/src/uniform/urng_prng.c
    unuran-1.8.1/src/uniform/urng_prng.h
    unuran-1.8.1/src/uniform/urng_randomshift.c
    unuran-1.8.1/src/uniform/urng_randomshift.h
    unuran-1.8.1/src/uniform/urng_rngstreams.c
    unuran-1.8.1/src/uniform/urng_rngstreams.h
    unuran-1.8.1/src/unuran.h.in
    unuran-1.8.1/src/urng/Makefile.am
    unuran-1.8.1/src/urng/Makefile.in
    unuran-1.8.1/src/utils/Makefile.am
    unuran-1.8.1/src/utils/Makefile.in
    unuran-1.8.1/tests/Makefile.am
    unuran-1.8.1/tests/Makefile.in
    unuran-1.8.1/tests/README.conf
    unuran-1.8.1/tests/make_test_files.pl
    unuran-1.8.1/tests/t_arou.c
    unuran-1.8.1/tests/t_arou.conf
    unuran-1.8.1/tests/t_ars.c
    unuran-1.8.1/tests/t_ars.conf
    unuran-1.8.1/tests/t_auto.c
    unuran-1.8.1/tests/t_auto.conf
    unuran-1.8.1/tests/t_cext.c
    unuran-1.8.1/tests/t_cext.conf
    unuran-1.8.1/tests/t_cstd.c
    unuran-1.8.1/tests/t_cstd.conf
    unuran-1.8.1/tests/t_dari.c
    unuran-1.8.1/tests/t_dari.conf
    unuran-1.8.1/tests/t_dau.c
    unuran-1.8.1/tests/t_dau.conf
    unuran-1.8.1/tests/t_deprecated_tdrgw.c
    unuran-1.8.1/tests/t_deprecated_vmt.c
    unuran-1.8.1/tests/t_deprecated_vmt.conf
    unuran-1.8.1/tests/t_dext.c
    unuran-1.8.1/tests/t_dext.conf
    unuran-1.8.1/tests/t_dgt.c
    unuran-1.8.1/tests/t_dgt.conf
    unuran-1.8.1/tests/t_distr.c
    unuran-1.8.1/tests/t_distr.conf
    unuran-1.8.1/tests/t_distr_cemp.c
    unuran-1.8.1/tests/t_distr_cemp.conf
    unuran-1.8.1/tests/t_distr_condi.c
    unuran-1.8.1/tests/t_distr_condi.conf
    unuran-1.8.1/tests/t_distr_cont.c
    unuran-1.8.1/tests/t_distr_cont.conf
    unuran-1.8.1/tests/t_distr_corder.c
    unuran-1.8.1/tests/t_distr_corder.conf
    unuran-1.8.1/tests/t_distr_cvec.c
    unuran-1.8.1/tests/t_distr_cvec.conf
    unuran-1.8.1/tests/t_distr_cvemp.c
    unuran-1.8.1/tests/t_distr_cvemp.conf
    unuran-1.8.1/tests/t_distr_cxtrans.c
    unuran-1.8.1/tests/t_distr_cxtrans.conf
    unuran-1.8.1/tests/t_distr_discr.c
    unuran-1.8.1/tests/t_distr_discr.conf
    unuran-1.8.1/tests/t_distr_matr.c
    unuran-1.8.1/tests/t_distr_matr.conf
    unuran-1.8.1/tests/t_dsrou.c
```

```
    unuran-1.8.1/tests/t_dsrou.conf
    unuran-1.8.1/tests/t_dss.c
    unuran-1.8.1/tests/t_dss.conf
    unuran-1.8.1/tests/t_dstd.c
    unuran-1.8.1/tests/t_dstd.conf
    unuran-1.8.1/tests/t_empk.c
    unuran-1.8.1/tests/t_empk.conf
    unuran-1.8.1/tests/t_empl.c
    unuran-1.8.1/tests/t_empl.conf
    unuran-1.8.1/tests/t_gibbs.c
    unuran-1.8.1/tests/t_gibbs.conf
    unuran-1.8.1/tests/t_hinv.c
    unuran-1.8.1/tests/t_hinv.conf
    unuran-1.8.1/tests/t_hist.c
    unuran-1.8.1/tests/t_hist.conf
    unuran-1.8.1/tests/t_hitro.c
    unuran-1.8.1/tests/t_hrb.c
    unuran-1.8.1/tests/t_hrb.conf
    unuran-1.8.1/tests/t_hrd.c
    unuran-1.8.1/tests/t_hrd.conf
    unuran-1.8.1/tests/t_hri.c
    unuran-1.8.1/tests/t_hri.conf
    unuran-1.8.1/tests/t_info.c
    unuran-1.8.1/tests/t_info.conf
    unuran-1.8.1/tests/t_itdr.c
    unuran-1.8.1/tests/t_itdr.conf
    unuran-1.8.1/tests/t_mcorr.c
    unuran-1.8.1/tests/t_mcorr.conf
    unuran-1.8.1/tests/t_mixt.c
    unuran-1.8.1/tests/t_mvstd.c
    unuran-1.8.1/tests/t_mvstd.conf
    unuran-1.8.1/tests/t_mvtdr.c
    unuran-1.8.1/tests/t_ninv.c
    unuran-1.8.1/tests/t_ninv.conf
    unuran-1.8.1/tests/t_norta.c
    unuran-1.8.1/tests/t_norta.conf
    unuran-1.8.1/tests/t_nrou.c
    unuran-1.8.1/tests/t_nrou.conf
    unuran-1.8.1/tests/t_pinv
    unuran-1.8.1/tests/t_pinv.c
    unuran-1.8.1/tests/t_srou.c
    unuran-1.8.1/tests/t_srou.conf
    unuran-1.8.1/tests/t_ssr.c
    unuran-1.8.1/tests/t_ssr.conf
    unuran-1.8.1/tests/t_stringparser.c
    unuran-1.8.1/tests/t_stringparser.conf
    unuran-1.8.1/tests/t_tabl.c
    unuran-1.8.1/tests/t_tabl.conf
    unuran-1.8.1/tests/t_tdr.c
    unuran-1.8.1/tests/t_tdr.conf
    unuran-1.8.1/tests/t_tdr_gw.c
    unuran-1.8.1/tests/t_tdr_gw.conf
    unuran-1.8.1/tests/t_tdr_ia.c
    unuran-1.8.1/tests/t_tdr_ia.conf
    unuran-1.8.1/tests/t_tdr_ps.c
    unuran-1.8.1/tests/t_tdr_ps.conf
    unuran-1.8.1/tests/t_unif.c
    unuran-1.8.1/tests/t_unif.conf
    unuran-1.8.1/tests/t_unur_error.c
    unuran-1.8.1/tests/t_unur_error.conf
    unuran-1.8.1/tests/t_unur_tests.c
    unuran-1.8.1/tests/t_unur_tests.conf
    unuran-1.8.1/tests/t_urng.c
    unuran-1.8.1/tests/t_urng.conf
```

```
    unuran-1.8.1/tests/t_utdr.c
    unuran-1.8.1/tests/t_utdr.conf
    unuran-1.8.1/tests/t_util_matrix.c
    unuran-1.8.1/tests/t_util_matrix.conf
    unuran-1.8.1/tests/t_vempk.c
    unuran-1.8.1/tests/t_vempk.conf
    unuran-1.8.1/tests/t_vnrou.c
    unuran-1.8.1/tests/t_vnrou.conf
    unuran-1.8.1/tests/t_x_gen.c
    unuran-1.8.1/tests/t_x_gen.conf
    unuran-1.8.1/tests/test_StdDistr.c
    unuran-1.8.1/tests/test_StdDistr.m
    unuran-1.8.1/tests/test_functionparser.c
    unuran-1.8.1/tests/test_functionparser.m
    unuran-1.8.1/tests/testcounter.c
    unuran-1.8.1/tests/testdistributions/Makefile.am
    unuran-1.8.1/tests/testdistributions/Makefile.in
    unuran-1.8.1/tests/testdistributions/c_sawtooth_contpdf.c
    unuran-1.8.1/tests/testdistributions/c_sawtooth_discpdf.c
    unuran-1.8.1/tests/testdistributions/c_w_pdf_from_logpdf.c
    unuran-1.8.1/tests/testdistributions/c_with_multiple_of_pdf.c
    unuran-1.8.1/tests/testdistributions/c_wo_logpdf.c
    unuran-1.8.1/tests/testdistributions/testdistributions.h
    unuran-1.8.1/tests/testdistributions/vc_cauchy_RoU_ball.c
    unuran-1.8.1/tests/testdistributions/vc_special_correlations_ar1.c
    unuran-1.8.1/tests/testdistributions/
vc_special_correlations_constantrho.c
    unuran-1.8.1/tests/testdistributions/vc_w_marginals.c
    unuran-1.8.1/tests/testdistributions/vc_wo_logpdf.c
    unuran-1.8.1/tests/testroutines.c
    unuran-1.8.1/tests/testunuran.h
    unuran-1.8.1/src/distr/deprecated_distr.c
    unuran-1.8.1/src/distr/deprecated_distr.h
    unuran-1.8.1/src/methods/deprecated_methods.c
    unuran-1.8.1/src/methods/deprecated_methods.h
    unuran-1.8.1/src/methods/deprecated_tdrgw.h
    unuran-1.8.1/src/methods/deprecated_vmt.c
    unuran-1.8.1/src/methods/deprecated_vmt.h
    unuran-1.8.1/src/methods/deprecated_vmt_struct.h
    unuran-1.8.1/src/parser/stringparser_lists.ch.in

UNU.RAN relies on a modified version of the library Cephes, see ./src/src/
specfunct/cephes_source.h

**********************

Numpy (License and Copyright)
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
```

```
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: extra-dll\libopenb*.dll
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
```

```
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
```

```
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------
tempita
```

```
Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------
dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

--------------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
```

```
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

--------------------------------------------------------------------------------
LICENSES_bundled in different directories:
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64
```

```
Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

------------------------------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
```

```
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
```

```
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random
```

```
NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

```
Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

-------------------------------------------------------------------------------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------




== Thread-pool Controls
.
== License
Copyright (c) 2019, threadpoolctl contributors

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of copyright holder nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
```

```
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
.
.
== Copyright Notices

--------------------------------(separator)---------------------------------
== joblib
.
== License
BSD 3-Clause License

Copyright (c) 2008-2021, The joblib developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
.
.
== Copyright Notices
```

Provider: scikit-learn developers / Component(s): scikit-learn 1.5.0

```
Top Level Component Name : scikit-learn
Top Level Component License : BSD 3-Clause License
Top Level Component Copyright :

BSD 3-Clause License
```

```
Copyright (c) 2007-2024 The scikit-learn developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
================================================================================

Fourth Party Dependency #1 Name : joblib
Fourth Party Dependency #1 License : BSD 3-Clause License
Fourth Party Dependency #1 Copyright :

BSD 3-Clause License

Copyright (c) 2008-2021, The joblib developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
```

```
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
==============================================================================

Fourth Party Dependency #2 Name : scipy
Fourth Party Dependency #2 License : BSD 3-Clause License
Fourth Party Dependency #2 Copyright :

Copyright (c) 2001-2002 Enthought, Inc. 2003-2024, SciPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----

The SciPy repository and source distributions bundle a number of libraries
 that
are compatibly licensed.  We list these here.


Name: Decorator
Files: scipy/_lib/decorator.py
License: 2-clause BSD
  For details, see the header inside scipy/_lib/decorator.py

Name: fast_matrix_market
Files: scipy/io/_fast_matrix_market/*
License: 2-clause BSD
  For details, see scipy/io/_fast_matrix_market/LICENSE.txt

Name: pystreambuf
Files: scipy/io/_fast_matrix_market/src/pystreambuf.h
License: 3-clause BSD
```

```
  For details, see the header inside scipy/io/_fast_matrix_market/src/
pystreambuf.h

Name: fast_float
Files: scipy/io/_fast_matrix_market/fast_matrix_market/dependencies/
fast_float/*
License: MIT
  For details, see scipy/io/_fast_matrix_market/fast_matrix_market/
dependencies/fast_float/LICENSE-MIT

Name: ryu
Files: scipy/io/_fast_matrix_market/fast_matrix_market/dependencies/ryu/*
License: BSL-1.0
  For details, see scipy/io/_fast_matrix_market/fast_matrix_market/
dependencies/ryu/LICENSE-BOOST

Name: ID
Files: scipy/linalg/src/id_dist/*
License: 3-clause BSD
  For details, see scipy/linalg/src/id_dist/doc/doc.tex

Name: L-BFGS-B
Files: scipy/optimize/lbfgsb/*
License: BSD license
  For details, see scipy/optimize/lbfgsb/README

Name: LAPJVsp
Files: scipy/sparse/csgraph/_matching.pyx
License: 3-clause BSD
Copyright 1987-, A. Volgenant/Amsterdam School of Economics,
                 University of Amsterdam

  Distributed under 3-clause BSD license with permission from
  University of Amsterdam.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

  3. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
    without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
```

```
  POSSIBILITY OF SUCH DAMAGE.


Name: SuperLU
Files: scipy/sparse/linalg/dsolve/SuperLU/*
License: 3-clause BSD
  For details, see scipy/sparse/linalg/dsolve/SuperLU/License.txt

Name: ARPACK
Files: scipy/sparse/linalg/eigen/arpack/ARPACK/*
License: 3-clause BSD
  For details, see scipy/sparse/linalg/eigen/arpack/ARPACK/COPYING

Name: Qhull
Files: scipy/spatial/qhull/*
License: Qhull license (BSD-like)
  For details, see scipy/spatial/qhull/COPYING.txt

Name: Cephes
Files: scipy/special/cephes/*
License: 3-clause BSD
  Distributed under 3-clause BSD license with permission from the author,
  see https://lists.debian.org/debian-legal/2004/12/msg00295.html

  Cephes Math Library Release 2.8:  June, 2000
  Copyright 1984, 1995, 2000 by Stephen L. Moshier

  This software is derived from the Cephes Math Library and is
  incorporated herein by permission of the author.

  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:
      * Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.
      * Neither the name of the <organization> nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
  WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
  DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
  DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
  (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
  LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
  ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
  SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: Faddeeva
Files: scipy/special/Faddeeva.*
License: MIT
```

```
  Copyright (c) 2012 Massachusetts Institute of Technology

  Permission is hereby granted, free of charge, to any person obtaining
  a copy of this software and associated documentation files (the
  "Software"), to deal in the Software without restriction, including
  without limitation the rights to use, copy, modify, merge, publish,
  distribute, sublicense, and/or sell copies of the Software, and to
  permit persons to whom the Software is furnished to do so, subject to
  the following conditions:

  The above copyright notice and this permission notice shall be
  included in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: qd
Files: scipy/special/cephes/dd_*.[ch]
License: modified BSD license ("BSD-LBNL-License.doc")
  This work was supported by the Director, Office of Science, Division
  of Mathematical, Information, and Computational Sciences of the
  U.S. Department of Energy under contract numbers DE-AC03-76SF00098 and
  DE-AC02-05CH11231.

  Copyright (c) 2003-2009, The Regents of the University of California,
  through Lawrence Berkeley National Laboratory (subject to receipt of
  any required approvals from U.S. Dept. of Energy) All rights reserved.

  1. Redistribution and use in source and binary forms, with or
  without modification, are permitted provided that the following
  conditions are met:

  (1) Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.

  (2) Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

  (3) Neither the name of the University of California, Lawrence
  Berkeley National Laboratory, U.S. Dept. of Energy nor the names
  of its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

  2. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  3. You are under no obligation whatsoever to provide any bug fixes,
```

```
  patches, or upgrades to the features, functionality or performance of
  the source code ("Enhancements") to anyone; however, if you choose to
  make your Enhancements available either publicly, or directly to
  Lawrence Berkeley National Laboratory, without imposing a separate
  written license agreement for such Enhancements, then you hereby grant
  the following license: a non-exclusive, royalty-free perpetual license
  to install, use, modify, prepare derivative works, incorporate into
  other computer software, distribute, and sublicense such enhancements
  or derivative works thereof, in binary and source code form.

Name: pypocketfft
Files: scipy/fft/_pocketfft/[pocketfft.h, pypocketfft.cxx]
License: 3-Clause BSD
  For details, see scipy/fft/_pocketfft/LICENSE.md

Name: uarray
Files: scipy/_lib/uarray/*
License: 3-Clause BSD
  For details, see scipy/_lib/uarray/LICENSE

Name: ampgo
Files: benchmarks/benchmarks/go_benchmark_functions/*.py
License: MIT
  Functions for testing global optimizers, forked from the AMPGO project,
  https://code.google.com/archive/p/ampgo

Name: pybind11
Files: no source files are included, however pybind11 binary artifacts are
  included with every binary build of SciPy.
License:
  Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights
 reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
 this
     list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  3. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
  WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE
  FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
```

```
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: HiGHS
Files: scipy/optimize/_highs/*
License: MIT
  For details, see scipy/optimize/_highs/LICENCE

Name: Boost
Files: scipy/_lib/boost_math/*
License: Boost Software License - Version 1.0
  For details, see scipy/_lib/boost_math/LICENSE.txt

Name: Biasedurn
Files: scipy/stats/biasedurn/*
License 3-Clause BSD
  For details, see scipy/stats/biasedurn/license.txt

Name: UNU.RAN
Files: scipy/_lib/unuran/*
License 3-Clause BSD
  For details, see scipy/_lib/unuran/license.txt

Name: NumPy
Files: scipy/stats/_rcont/[logfactorial.h,logfactorial.c]
License 3-Clause BSD
  For details, see header inside scipy/stats/_rcont/logfactorial.h
  and scipy/stats/_rcont/logfactorial.c

Name: array-api-compat
Files: scipy/_lib/array-api-compat/*
License: MIT
  For details, see scipy/_lib/array-api-compat/LICENCE


SciPy bundles a number of libraries that are compatibly licensed.  We list
these here.

Name: Numpydoc
Files: doc/sphinxext/numpydoc/*
License: 2-clause BSD
  For details, see doc/sphinxext/LICENSE.txt

Name: scipy-sphinx-theme
Files: doc/scipy-sphinx-theme/*
License: 3-clause BSD, PSF and Apache 2.0
  For details, see doc/sphinxext/LICENSE.txt

Name: Six
Files: scipy/_lib/six.py
License: MIT
  For details, see the header inside scipy/_lib/six.py

Name: Decorator
Files: scipy/_lib/decorator.py
License: 2-clause BSD
  For details, see the header inside scipy/_lib/decorator.py

Name: ID
Files: scipy/linalg/src/id_dist/*
License: 3-clause BSD
  For details, see scipy/linalg/src/id_dist/doc/doc.tex
```

```
Name: L-BFGS-B
Files: scipy/optimize/lbfgsb/*
License: BSD license
  For details, see scipy/optimize/lbfgsb/README

Name: SuperLU
Files: scipy/sparse/linalg/dsolve/SuperLU/*
License: 3-clause BSD
  For details, see scipy/sparse/linalg/dsolve/SuperLU/License.txt

Name: ARPACK
Files: scipy/sparse/linalg/eigen/arpack/ARPACK/*
License: 3-clause BSD
  For details, see scipy/sparse/linalg/eigen/arpack/ARPACK/COPYING

Name: Qhull
Files: scipy/spatial/qhull/*
License: Qhull license (BSD-like)
  For details, see scipy/spatial/qhull/COPYING.txt

Name: Cephes
Files: scipy/special/cephes/*
License: 3-clause BSD
  Distributed under 3-clause BSD license with permission from the author,
  see https://lists.debian.org/debian-legal/2004/12/msg00295.html

  Cephes Math Library Release 2.8:  June, 2000
  Copyright 1984, 1995, 2000 by Stephen L. Moshier

  This software is derived from the Cephes Math Library and is
  incorporated herein by permission of the author.

  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:
      * Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.
      * Neither the name of the <organization> nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
  WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
  DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
  DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
  (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
  LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
  ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
  SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: Faddeeva
```

```
Files: scipy/special/Faddeeva.*
License: MIT
  Copyright (c) 2012 Massachusetts Institute of Technology

  Permission is hereby granted, free of charge, to any person obtaining
  a copy of this software and associated documentation files (the
  "Software"), to deal in the Software without restriction, including
  without limitation the rights to use, copy, modify, merge, publish,
  distribute, sublicense, and/or sell copies of the Software, and to
  permit persons to whom the Software is furnished to do so, subject to
  the following conditions:

  The above copyright notice and this permission notice shall be
  included in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: qd
Files: scipy/special/cephes/dd_*.[ch]
License: modified BSD license ("BSD-LBNL-License.doc")
  This work was supported by the Director, Office of Science, Division
  of Mathematical, Information, and Computational Sciences of the
  U.S. Department of Energy under contract numbers DE-AC03-76SF00098 and
  DE-AC02-05CH11231.

  Copyright (c) 2003-2009, The Regents of the University of California,
  through Lawrence Berkeley National Laboratory (subject to receipt of
  any required approvals from U.S. Dept. of Energy) All rights reserved.

  1. Redistribution and use in source and binary forms, with or
  without modification, are permitted provided that the following
  conditions are met:

  (1) Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.

  (2) Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

  (3) Neither the name of the University of California, Lawrence
  Berkeley National Laboratory, U.S. Dept. of Energy nor the names
  of its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

  2. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
  3. You are under no obligation whatsoever to provide any bug fixes,
  patches, or upgrades to the features, functionality or performance of
  the source code ("Enhancements") to anyone; however, if you choose to
  make your Enhancements available either publicly, or directly to
  Lawrence Berkeley National Laboratory, without imposing a separate
  written license agreement for such Enhancements, then you hereby grant
  the following license: a non-exclusive, royalty-free perpetual license
  to install, use, modify, prepare derivative works, incorporate into
  other computer software, distribute, and sublicense such enhancements
  or derivative works thereof, in binary and source code form.

ndimage

Copyright (C) 2003-2005 Peter J. Verveer

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

optimize

Copyright (c) 2002-2005, Jean-Sebastien Roy (js@jeannot.org)

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
```

```
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

lapack_deprecation

Copyright (c) 1992-2015 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2015 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2015 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

SuperLU

Copyright (c) 2003, The Regents of the University of California, through
Lawrence Berkeley National Laboratory (subject to receipt of any required
approvals from U.S. Dept. of Energy)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
(1) Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
(2) Redistributions in binary form must reproduce the above copyright
 notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
(3) Neither the name of Lawrence Berkeley National Laboratory, U.S. Dept. of
Energy nor the names of its contributors may be used to endorse or promote
products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

******************


----

This binary distribution of SciPy also bundles the following software:


Name: OpenBLAS
Files: scipy.libs/libopenblas*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause-Attribution
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
```

```
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: scipy.libs/libopenblas*.so
Description: bundled in OpenBLAS
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause-Attribution
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: GCC runtime library
Files: scipy.libs/libgfortran*.so
Description: dynamically linked to files compiled with gcc
```

```
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran
License: GPL-3.0-with-GCC-exception
  Copyright (C) 2002-2017 Free Software Foundation, Inc.

  Libgfortran is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 3, or (at your option)
  any later version.

  Libgfortran is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  Under Section 7 of GPL version 3, you are granted additional
  permissions described in the GCC Runtime Library Exception, version
  3.1, as published by the Free Software Foundation.

  You should have received a copy of the GNU General Public License and
  a copy of the GCC Runtime Library Exception along with this program;
  see the files COPYING3 and COPYING.RUNTIME respectively.  If not, see
  <http://www.gnu.org/licenses/>.

----

Full text of license texts referred to above follows (that they are
listed below does not necessarily imply the conditions apply to the
present binary release):

----

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.
```

```
"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.

----

                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
```

```
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
```

```
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.
```

```
  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
```

```
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
```

```
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.
```

```
  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.
```

```
  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.
```

```
  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.
```

```
  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
```

```
  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
```

```
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.


Name: libquadmath
Files: scipy.libs/libquadmath*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
License: LGPL-2.1-or-later

    GCC Quad-Precision Math Library
    Copyright (C) 2010-2019 Free Software Foundation, Inc.
    Written by Francois-Xavier Coudert  <fxcoudert@gcc.gnu.org>

    This file is part of the libquadmath library.
    Libquadmath is free software; you can redistribute it and/or
    modify it under the terms of the GNU Library General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    Libquadmath is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.
    https://www.gnu.org/licenses/old-licenses/lgpl-2.1.html

******************************************************************************

\documentclass[letterpaper,12pt]{article}
\usepackage[margin=1in]{geometry}
\usepackage{verbatim}
\usepackage{amsmath}
\usepackage{supertabular}
\usepackage{array}

\def\T{{\hbox{\scriptsize{\rm T}}}}
\def\epsilon{\varepsilon}
\def\bigoh{\mathcal{O}}
\def\phi{\varphi}
\def\st{{\hbox{\scriptsize{\rm st}}}}
\def\th{{\hbox{\scriptsize{\rm th}}}}
\def\x{\mathbf{x}}


\title{ID: A software package for low-rank approximation
       of matrices via interpolative decompositions, Version 0.4}
\author{Per-Gunnar Martinsson, Vladimir Rokhlin,\\
        Yoel Shkolnisky, and Mark Tygert}


\begin{document}

\maketitle
```

```
\newpage

{\parindent=0pt

The present document and all of the software
in the accompanying distribution (which is contained in the directory
{\tt id\_dist} and its subdirectories, or in the file
{\tt id\_dist.tar.gz})\, is

\bigskip

Copyright \copyright\ 2014 by P.-G. Martinsson, V. Rokhlin,
Y. Shkolnisky, and M. Tygert.

\bigskip

All rights reserved.

\bigskip

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

\begin{enumerate}
\item Redistributions of source code must retain the above copyright
notice, this list of conditions, and the following disclaimer.
\item Redistributions in binary form must reproduce the above copyright
notice, this list of conditions, and the following disclaimer in the
documentation and/or other materials provided with the distribution.
\item None of the names of the copyright holders may be used to endorse
or promote products derived from this software without specific prior
written permission.
\end{enumerate}

\bigskip

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNERS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

}

\newpage

\tableofcontents

\newpage



\hrule

\medskip
```

```
\centerline{\Large \bf IMPORTANT}

\medskip

\hrule

\medskip

\noindent At the minimum, please read Subsection~\ref{warning}
and Section~\ref{naming} below, and beware that the {\it N.B.}'s
in the source code comments highlight key information about the routines;
{\it N.B.} stands for {\it nota bene} (Latin for ``note well'').

\medskip

\hrule

\bigskip



\section{Introduction}

This software distribution provides Fortran routines
for computing low-rank approximations to matrices,
in the forms of interpolative decompositions (IDs)
and singular value decompositions (SVDs).
The routines use algorithms based on the ID.
The ID is also commonly known as
the approximation obtained via skeletonization,
the approximation obtained via subsampling,
and the approximation obtained via subset selection.
The ID provides many advantages in many applications,
and we suspect that it will become increasingly popular
once tools for its computation become more widely available.
This software distribution includes some such tools,
as well as tools for computing low-rank approximations
in the form of SVDs.
Section~\ref{defs} below defines IDs and SVDs,
and provides references to detailed discussions of the algorithms
used in this software package.

Please beware that normalized power iterations are better suited than
the software in this distribution
for computing principal component analyses
in the typical case when the square of the signal-to-noise ratio
is not orders of magnitude greater than both dimensions
of the data matrix; see~\cite{halko-martinsson-tropp}.

The algorithms used in this distribution have been optimized
for accuracy, efficiency, and reliability;
as a somewhat counterintuitive consequence, many must be randomized.
All randomized codes in this software package succeed
with overwhelmingly high probability (see, for example,
\cite{halko-martinsson-tropp}).
The truly paranoid are welcome to use the routines {\tt idd\_diffsnorm}
and {\tt idz\_diffsnorm} to evaluate rapidly the quality
of the approximations produced by the randomized algorithms
(as done, for example, in the files
{\tt idd\_a\_test.f}, {\tt idd\_r\_test.f}, {\tt idz\_a\_test.f},
and {\tt idz\_r\_test.f} in the {\tt test} subdirectory
of the main directory {\tt id\_dist}).
In most circumstances, evaluating the quality of an approximation
via routines {\tt idd\_diffsnorm} or {\tt idz\_diffsnorm} is much faster
```

```
than forming the approximation to be evaluated. Still, we are unaware
of any instance in which a properly-compiled routine failed to produce
an accurate approximation.
To facilitate successful compilation, we encourage the user
to read the instructions in the next section,
and to read Section~\ref{naming}, too.



\section{Compilation instructions}


Followed in numerical order, the subsections of this section
provide step-by-step instructions for compiling the software
under a Unix-compatible operating system.


\subsection{Beware that default command-line flags may not be
            sufficient for compiling the source codes!}
\label{warning}

The Fortran source codes in this distribution pass {\tt real*8}
variables as integer variables, integers as {\tt real*8}'s,
{\tt real*8}'s as {\tt complex*16}'s, and so on.
This is common practice in numerical codes, and is not an error;
be sure to provide the relevant command-line flags to the compiler
(for example, run {\tt fort77} and {\tt f2c} with the flag {\tt -!P}).
When following the compilation instructions
in Subsection~\ref{makefile_edit} below,
be sure to set {\tt FFLAGS} appropriately.


\subsection{Install LAPACK}

The SVD routines in this distribution depend on LAPACK.
Before compiling the present distribution,
create the LAPACK and BLAS archive (library) {\tt .a} files;
information about installing LAPACK is available
at {\tt http://www.netlib.org/lapack/} (and several other web sites).


\subsection{Decompress and untar the file {\tt id\_dist.tar.gz}}

At the command line, decompress and untar the file
{\tt id\_dist.tar.gz} by issuing a command such as
{\tt tar -xvvzf id\_dist.tar.gz}.
This will create a directory named {\tt id\_dist}.


\subsection{Edit the Makefile}
\label{makefile_edit}

The directory {\tt id\_dist} contains a file named {\tt Makefile}.
In {\tt Makefile}, set the following:
%
\begin{itemize}
\item {\tt FC} is the Fortran compiler.
\item {\tt FFLAGS} is the set of command-line flags
      (specifying optimization settings, for example)
      for the Fortran compiler specified by {\tt FC};
      please heed the warning in Subsection~\ref{warning} above!
\item {\tt BLAS\_LIB} is the file-system path to the BLAS archive
      (library) {\tt .a} file.
\item {\tt LAPACK\_LIB} is the file-system path to the LAPACK archive
```

```
      (library) {\tt .a} file.
\item {\tt ARCH} is the archiver utility (usually {\tt ar}).
\item {\tt ARCHFLAGS} is the set of command-line flags
      for the archiver specified by {\tt ARCH} needed
      to create an archive (usually {\tt cr}).
\item {\tt RANLIB} is to be set to {\tt ranlib}
      when {\tt ranlib} is available, and is to be set to {\tt echo}
      when {\tt ranlib} is not available.
\end{itemize}


\subsection{Make and test the libraries}

At the command line in a shell that adheres
to the Bourne shell conventions for redirection, issue the command
``{\tt make clean; make}'' to both create the archive (library)
{\tt id\_lib.a} and test it.
(In most modern Unix distributions, {\tt sh} is the Bourne shell,
or else is fully compatible with the Bourne shell;
the Korn shell {\tt ksh} and the Bourne-again shell {\tt bash}
also use the Bourne shell conventions for redirection.)
{\tt make} places the file {\tt id\_lib.a}
in the directory {\tt id\_dist}; the archive (library) file
{\tt id\_lib.a} contains machine code for all user-callable routines
in this distribution.



\section{Naming conventions}
\label{naming}

The names of routines and files in this distribution
start with prefixes, followed by an underscore (``\_'').
The prefixes are two to four characters in length,
and have the following meanings:
%
\begin{itemize}
\item The first two letters are always ``{\tt id}'',
      the name of this distribution.
\item The third letter (when present) is either ``{\tt d}''
      or ``{\tt z}'';
      ``{\tt d}'' stands for double precision ({\tt real*8}),
      and ``{\tt z}'' stands for double complex ({\tt complex*16}).
\item The fourth letter (when present) is either ``{\tt r}''
      or ``{\tt p}'';
      ``{\tt r}'' stands for specified rank,
      and ``{\tt p}'' stands for specified precision.
      The specified rank routines require the user to provide
      the rank of the approximation to be constructed,
      while the specified precision routines adjust the rank adaptively
      to attain the desired precision.
\end{itemize}

For example, {\tt iddr\_aid} is a {\tt real*8} routine which computes
an approximation of specified rank.
{\tt idz\_snorm} is a {\tt complex*16} routine.
{\tt id\_randperm} is yet another routine in this distribution.



\section{Example programs}

For examples of how to use the user-callable routines
in this distribution, see the source codes in subdirectory {\tt test}
```

```
of the main directory {\tt id\_dist}.



\section{Directory structure}

The main {\tt id\_dist} directory contains a Makefile,
the auxiliary text files {\tt README.txt} and {\tt size.txt},
and the following subdirectories, described in the subsections below:
%
\begin{enumerate}
\item {\tt bin}
\item {\tt development}
\item {\tt doc}
\item {\tt src}
\item {\tt test}
\item {\tt tmp}
\end{enumerate}
%
If a ``{\tt make all}'' command has completed successfully,
then the main {\tt id\_dist} directory will also contain
an archive (library) file {\tt id\_lib.a} containing machine code
for all of the user-callable routines.


\subsection{Subdirectory {\tt bin}}

Once all of the libraries have been made via the Makefile
in the main {\tt id\_dist} directory,
the subdirectory {\tt bin} will contain object files (machine code),
each compiled from the corresponding file of source code
in the subdirectory {\tt src} of {\tt id\_dist}.


\subsection{Subdirectory {\tt development}}

Each Fortran file in the subdirectory {\tt development}
(except for {\tt dfft.f} and {\tt prini.f})
specifies its dependencies at the top, then provides a main program
for testing and debugging, and finally provides source code
for a library of user-callable subroutines.
The Fortran file {\tt dfft.f} is a copy of P. N. Swarztrauber's FFTPACK
 library
for computing fast Fourier transforms.
The Fortran file {\tt prini.f} is a copy of V. Rokhlin's library
of formatted printing routines.
Both {\tt dfft.f} (version 4) and {\tt prini.f} are in the public domain.
The shell script {\tt RUNME.sh} runs shell scripts {\tt make\_src.sh}
and {\tt make\_test.sh}, which fill the subdirectories {\tt src}
and {\tt test} of the main directory {\tt id\_dist}
with source codes for user-callable routines
and with the main program testing codes.


\subsection{Subdirectory {\tt doc}}

Subdirectory {\tt doc} contains this documentation,
supplementing comments in the source codes.


\subsection{Subdirectory {\tt src}}

The files in the subdirectory {\tt src} provide source code
for software libraries. Each file in the subdirectory {\tt src}
```

```
(except for {\tt dfft.f} and {\tt prini.f}) is
the bottom part of the corresponding file
in the subdirectory {\tt development} of {\tt id\_dist}.
The file {\tt dfft.f} is just a copy
of P. N. Swarztrauber's FFTPACK library
for computing fast Fourier transforms.
The file {\tt prini.f} is a copy of V. Rokhlin's library
of formatted printing routines.
Both {\tt dfft.f} (version 4) and {\tt prini.f} are in the public domain.


\subsection{Subdirectory {\tt test}}

The files in subdirectory {\tt test} provide source code
for testing and debugging. Each file in subdirectory {\tt test} is
the top part of the corresponding file
in subdirectory {\tt development} of {\tt id\_dist},
and provides a main program and a list of its dependencies.
These codes provide examples of how to call the user-callable routines.



\section{Catalog of the routines}

The main routines for decomposing {\tt real*8} matrices are:
%
\begin{enumerate}
%
\item IDs of arbitrary (generally dense) matrices:
{\tt iddp\_id}, {\tt iddr\_id}, {\tt iddp\_aid}, {\tt iddr\_aid}
%
\item IDs of matrices that may be rapidly applied to arbitrary vectors
(as may the matrices' transposes):
{\tt iddp\_rid}, {\tt iddr\_rid}
%
\item SVDs of arbitrary (generally dense) matrices:
{\tt iddp\_svd}, {\tt iddr\_svd}, {\tt iddp\_asvd},\\{\tt iddr\_asvd}
%
\item SVDs of matrices that may be rapidly applied to arbitrary vectors
(as may the matrices' transposes):
{\tt iddp\_rsvd}, {\tt iddr\_rsvd}
%
\end{enumerate}

Similarly, the main routines for decomposing {\tt complex*16} matrices
are:
%
\begin{enumerate}
%
\item IDs of arbitrary (generally dense) matrices:
{\tt idzp\_id}, {\tt idzr\_id}, {\tt idzp\_aid}, {\tt idzr\_aid}
%
\item IDs of matrices that may be rapidly applied to arbitrary vectors
(as may the matrices' adjoints):
{\tt idzp\_rid}, {\tt idzr\_rid}
%
\item SVDs of arbitrary (generally dense) matrices:
{\tt idzp\_svd}, {\tt idzr\_svd}, {\tt idzp\_asvd},\\{\tt idzr\_asvd}
%
\item SVDs of matrices that may be rapidly applied to arbitrary vectors
(as may the matrices' adjoints):
{\tt idzp\_rsvd}, {\tt idzr\_rsvd}
%
\end{enumerate}
```

```
This distribution also includes routines for constructing pivoted $QR$
decompositions (in {\tt idd\_qrpiv.f} and {\tt idz\_qrpiv.f}), for
estimating the spectral norms of matrices that may be applied rapidly
to arbitrary vectors as may their adjoints (in {\tt idd\_snorm.f}
and {\tt idz\_snorm.f}), for converting IDs to SVDs (in
{\tt idd\_id2svd.f} and {\tt idz\_id2svd.f}), and for computing rapidly
arbitrary subsets of the entries of the discrete Fourier transforms
of vectors (in {\tt idd\_sfft.f} and {\tt idz\_sfft.f}).


\subsection{List of the routines}

The following is an alphabetical list of the routines
in this distribution, together with brief descriptions
of their functionality and the names of the files containing
the routines' source code:

\begin{center}
%
\tablehead{\bf Routine & \bf Description & \bf Source file \\}
\tabletail{\hline}
%
\begin{supertabular}{>{\raggedright}p{1.2in} p{.53\textwidth} l}
%
\hline
{\tt id\_frand} & generates pseudorandom numbers drawn uniformly from
the interval $[0,1]$; this routine is more efficient than routine
{\tt id\_srand}, but cannot generate fewer than 55 pseudorandom numbers
per call & {\tt id\_rand.f} \\\hline
%
{\tt id\_frandi} & initializes the seed values for routine
{\tt id\_frand} to specified values & {\tt id\_rand.f} \\\hline
%
{\tt id\_frando} & initializes the seed values for routine
{\tt id\_frand} to their original, default values & {\tt id\_rand.f}
\\\hline
%
{\tt id\_randperm} & generates a uniformly random permutation &
{\tt id\_rand.f} \\\hline
%
{\tt id\_srand} & generates pseudorandom numbers drawn uniformly from
the interval $[0,1]$; this routine is less efficient than routine
{\tt id\_frand}, but can generate fewer than 55 pseudorandom numbers
per call & {\tt id\_rand.f} \\\hline
%
{\tt id\_srandi} & initializes the seed values for routine
{\tt id\_srand} to specified values & {\tt id\_rand.f} \\\hline
%
{\tt id\_srando} & initializes the seed values for routine
{\tt id\_srand} to their original, default values & {\tt id\_rand.f}
\\\hline
%
{\tt idd\_copycols} & collects together selected columns of a matrix &
{\tt idd\_id.f} \\\hline
%
{\tt idd\_diffsnorm} & estimates the spectral norm of the difference
between two matrices specified by routines for applying the matrices
and their transposes to arbitrary vectors; this routine uses the power
method with a random starting vector & {\tt idd\_snorm.f} \\\hline
%
{\tt idd\_enorm} & calculates the Euclidean norm of a vector &
{\tt idd\_snorm.f} \\\hline
%
```

```
{\tt idd\_estrank} & estimates the numerical rank of an arbitrary
(generally dense) matrix to a specified precision; this routine is
randomized, and must be initialized with routine {\tt idd\_frmi} &
{\tt iddp\_aid.f} \\\hline
%
{\tt idd\_frm} & transforms a vector into a vector which is
sufficiently scrambled to be subsampled, via a composition of Rokhlin's
random transform, random subselection, and a fast Fourier transform &
{\tt idd\_frm.f} \\\hline
%
{\tt idd\_frmi} & initializes routine {\tt idd\_frm} & {\tt idd\_frm.f}
\\\hline
%
{\tt idd\_getcols} & collects together selected columns of a matrix
specified by a routine for applying the matrix to arbitrary vectors &
{\tt idd\_id.f} \\\hline
%
{\tt idd\_house} & calculates the vector and scalar needed to apply the
Householder transformation reflecting a given vector into its first
entry & {\tt idd\_house.f} \\\hline
%
{\tt idd\_houseapp} & applies a Householder matrix to a vector &
{\tt idd\_house.f} \\\hline
%
{\tt idd\_id2svd} & converts an approximation to a matrix in the form
of an ID into an approximation in the form of an SVD &
{\tt idd\_id2svd.f} \\\hline
%
{\tt idd\_ldiv} & finds the greatest integer less than or equal to a
specified integer, that is divisible by another (larger) specified
integer & {\tt idd\_sfft.f} \\\hline
%
{\tt idd\_pairsamps} & calculates the indices of the pairs of integers
that the individual integers in a specified set belong to &
{\tt idd\_frm.f} \\\hline
%
{\tt idd\_permmult} & multiplies together a bunch of permutations &
{\tt idd\_qrpiv.f} \\\hline
%
{\tt idd\_qinqr} & reconstructs the $Q$ matrix in a $QR$ decomposition
from the output of routines {\tt iddp\_qrpiv} or {\tt iddr\_qrpiv} &
{\tt idd\_qrpiv.f} \\\hline
%
{\tt idd\_qrmatmat} & applies to multiple vectors collected together as
a matrix the $Q$ matrix (or its transpose) in the $QR$ decomposition of
a matrix, as described by the output of routines {\tt iddp\_qrpiv} or
{\tt iddr\_qrpiv}; to apply $Q$ (or its transpose) to a single vector
without having to provide a work array, use routine {\tt idd\_qrmatvec}
instead & {\tt idd\_qrpiv.f} \\\hline
%
{\tt idd\_qrmatvec} & applies to a single vector the $Q$ matrix (or its
transpose) in the $QR$ decomposition of a matrix, as described by the
output of routines {\tt iddp\_qrpiv} or {\tt iddr\_qrpiv}; to apply $Q$
(or its transpose) to several vectors efficiently, use routine
{\tt idd\_qrmatmat} instead & {\tt idd\_qrpiv.f} \\\hline
%
{\tt idd\_random\_} {\tt transf} & applies rapidly a
random orthogonal matrix to a user-supplied vector & {\tt id\_rtrans.f}
\\\hline
%
{\tt idd\_random\_ transf\_init} & \raggedright initializes routines
{\tt idd\_random\_transf} and {\tt idd\_random\_transf\_inverse} &
{\tt id\_rtrans.f} \\\hline
%
```

```
{\tt idd\_random\_} {\tt transf\_inverse} & applies
rapidly the inverse of the operator applied by routine
{\tt idd\_random\_transf} & {\tt id\_rtrans.f} \\\hline
%
{\tt idd\_reconid} & reconstructs a matrix from its ID &
{\tt idd\_id.f} \\\hline
%
{\tt idd\_reconint} & constructs $P$ in the ID $A = B \, P$, where the
columns of $B$ are a subset of the columns of $A$, and $P$ is the
projection coefficient matrix, given {\tt list}, {\tt krank}, and
{\tt proj} output by routines {\tt iddr\_id}, {\tt iddp\_id},
{\tt iddr\_aid}, {\tt iddp\_aid}, {\tt iddr\_rid}, or {\tt iddp\_rid} &
{\tt idd\_id.f} \\\hline
%
{\tt idd\_sfft} & rapidly computes a subset of the entries of the
discrete Fourier transform of a vector, composed with permutation
matrices both on input and on output & {\tt idd\_sfft.f} \\\hline
%
{\tt idd\_sffti} & initializes routine {\tt idd\_sfft} &
{\tt idd\_sfft.f} \\\hline
%
{\tt idd\_sfrm} & transforms a vector into a scrambled vector of
specified length, via a composition of Rokhlin's random transform,
random subselection, and a fast Fourier transform & {\tt idd\_frm.f}
\\\hline
%
{\tt idd\_sfrmi} & initializes routine {\tt idd\_sfrm} &
{\tt idd\_frm.f} \\\hline
%
{\tt idd\_snorm} & estimates the spectral norm of a matrix specified by
routines for applying the matrix and its transpose to arbitrary
vectors; this routine uses the power method with a random starting
vector & {\tt idd\_snorm.f} \\\hline
%
{\tt iddp\_aid} & computes the ID of an arbitrary (generally dense)
matrix, to a specified precision; this routine is randomized, and must
be initialized with routine {\tt idd\_frmi} & {\tt iddp\_aid.f}
\\\hline
%
{\tt iddp\_asvd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified precision; this routine is randomized, and must
be initialized with routine {\tt idd\_frmi} & {\tt iddp\_asvd.f}
\\\hline
%
{\tt iddp\_id} & computes the ID of an arbitrary (generally dense)
matrix, to a specified precision; this routine is often less efficient
than routine {\tt iddp\_aid} & {\tt idd\_id.f} \\\hline
%
{\tt iddp\_qrpiv} & computes the pivoted $QR$ decomposition of an
arbitrary (generally dense) matrix via Householder transformations,
stopping at a specified precision of the decomposition &
{\tt idd\_qrpiv.f} \\\hline
%
{\tt iddp\_rid} & computes the ID, to a specified precision, of a
matrix specified by a routine for applying its transpose to arbitrary
vectors; this routine is randomized & {\tt iddp\_rid.f} \\\hline
%
{\tt iddp\_rsvd} & computes the SVD, to a specified precision, of a
matrix specified by routines for applying the matrix and its transpose
to arbitrary vectors; this routine is randomized & {\tt iddp\_rsvd.f}
\\\hline
%
{\tt iddp\_svd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified precision; this routine is often less efficient
```

```
than routine {\tt iddp\_asvd} & {\tt idd\_svd.f} \\\hline
%
{\tt iddr\_aid} & computes the ID of an arbitrary (generally dense)
matrix, to a specified rank; this routine is randomized, and must be
initialized by routine {\tt iddr\_aidi} & {\tt iddr\_aid.f} \\\hline
%
{\tt iddr\_aidi} & initializes routine {\tt iddr\_aid} &
{\tt iddr\_aid.f} \\\hline
%
{\tt iddr\_asvd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified rank; this routine is randomized, and must be
initialized with routine {\tt idd\_aidi} & {\tt iddr\_asvd.f}
\\\hline
%
{\tt iddr\_id} & computes the ID of an arbitrary (generally dense)
matrix, to a specified rank; this routine is often less efficient than
routine {\tt iddr\_aid} & {\tt idd\_id.f} \\\hline
%
{\tt iddr\_qrpiv} & computes the pivoted $QR$ decomposition of an
arbitrary (generally dense) matrix via Householder transformations,
stopping at a specified rank of the decomposition & {\tt idd\_qrpiv.f}
\\\hline
%
{\tt iddr\_rid} & computes the ID, to a specified rank, of a matrix
specified by a routine for applying its transpose to arbitrary vectors;
this routine is randomized & {\tt iddr\_rid.f} \\\hline
%
{\tt iddr\_rsvd} & computes the SVD, to a specified rank, of a matrix
specified by routines for applying the matrix and its transpose to
arbitrary vectors; this routine is randomized & {\tt iddr\_rsvd.f}
\\\hline
%
{\tt iddr\_svd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified rank; this routine is often less efficient than
routine {\tt iddr\_asvd} & {\tt idd\_svd.f} \\\hline
%
{\tt idz\_copycols} & collects together selected columns of a matrix &
{\tt idz\_id.f} \\\hline
%
{\tt idz\_diffsnorm} & estimates the spectral norm of the difference
between two matrices specified by routines for applying the matrices
and their adjoints to arbitrary vectors; this routine uses the power
method with a random starting vector & {\tt idz\_snorm.f} \\\hline
%
{\tt idz\_enorm} & calculates the Euclidean norm of a vector &
{\tt idz\_snorm.f} \\\hline
%
{\tt idz\_estrank} & estimates the numerical rank of an arbitrary
(generally dense) matrix to a specified precision; this routine is
randomized, and must be initialized with routine {\tt idz\_frmi} &
{\tt idzp\_aid.f} \\\hline
%
{\tt idz\_frm} & transforms a vector into a vector which is
sufficiently scrambled to be subsampled, via a composition of Rokhlin's
random transform, random subselection, and a fast Fourier transform &
{\tt idz\_frm.f} \\\hline
%
{\tt idz\_frmi} & initializes routine {\tt idz\_frm} & {\tt idz\_frm.f}
\\\hline
%
{\tt idz\_getcols} & collects together selected columns of a matrix
specified by a routine for applying the matrix to arbitrary vectors &
{\tt idz\_id.f} \\\hline
%
```

```
{\tt idz\_house} & calculates the vector and scalar needed to apply the
Householder transformation reflecting a given vector into its first
entry & {\tt idz\_house.f} \\\hline
%
{\tt idz\_houseapp} & applies a Householder matrix to a vector &
{\tt idz\_house.f} \\\hline
%
{\tt idz\_id2svd} & converts an approximation to a matrix in the form
of an ID into an approximation in the form of an SVD &
{\tt idz\_id2svd.f} \\\hline
%
{\tt idz\_ldiv} & finds the greatest integer less than or equal to a
specified integer, that is divisible by another (larger) specified
integer & {\tt idz\_sfft.f} \\\hline
%
{\tt idz\_permmult} & multiplies together a bunch of permutations &
{\tt idz\_qrpiv.f} \\\hline
%
{\tt idz\_qinqr} & reconstructs the $Q$ matrix in a $QR$ decomposition
from the output of routines {\tt idzp\_qrpiv} or {\tt idzr\_qrpiv} &
{\tt idz\_qrpiv.f} \\\hline
%
{\tt idz\_qrmatmat} & applies to multiple vectors collected together as
a matrix the $Q$ matrix (or its adjoint) in the $QR$ decomposition of
a matrix, as described by the output of routines {\tt idzp\_qrpiv} or
{\tt idzr\_qrpiv}; to apply $Q$ (or its adjoint) to a single vector
without having to provide a work array, use routine {\tt idz\_qrmatvec}
instead & {\tt idz\_qrpiv.f} \\\hline
%
{\tt idz\_qrmatvec} & applies to a single vector the $Q$ matrix (or its
adjoint) in the $QR$ decomposition of a matrix, as described by the
output of routines {\tt idzp\_qrpiv} or {\tt idzr\_qrpiv}; to apply $Q$
(or its adjoint) to several vectors efficiently, use routine
{\tt idz\_qrmatmat} instead & {\tt idz\_qrpiv.f} \\\hline
%
{\tt idz\_random\_ transf} & applies rapidly a random unitary matrix to
a user-supplied vector & {\tt id\_rtrans.f} \\\hline
%
{\tt idz\_random\_ transf\_init} & \raggedright initializes routines
{\tt idz\_random\_transf} and {\tt idz\_random\_transf\_inverse} &
{\tt id\_rtrans.f} \\\hline
%
{\tt idz\_random\_ transf\_inverse} & applies rapidly the inverse of
the operator applied by routine {\tt idz\_random\_transf} &
{\tt id\_rtrans.f} \\\hline
%
{\tt idz\_reconid} & reconstructs a matrix from its ID &
{\tt idz\_id.f} \\\hline
%
{\tt idz\_reconint} & constructs $P$ in the ID $A = B \, P$, where the
columns of $B$ are a subset of the columns of $A$, and $P$ is the
projection coefficient matrix, given {\tt list}, {\tt krank}, and
{\tt proj} output by routines {\tt idzr\_id}, {\tt idzp\_id},
{\tt idzr\_aid}, {\tt idzp\_aid}, {\tt idzr\_rid}, or {\tt idzp\_rid} &
{\tt idz\_id.f} \\\hline
%
{\tt idz\_sfft} & rapidly computes a subset of the entries of the
discrete Fourier transform of a vector, composed with permutation
matrices both on input and on output & {\tt idz\_sfft.f} \\\hline
%
{\tt idz\_sffti} & initializes routine {\tt idz\_sfft} &
{\tt idz\_sfft.f} \\\hline
%
{\tt idz\_sfrm} & transforms a vector into a scrambled vector of
```

```
specified length, via a composition of Rokhlin's random transform,
random subselection, and a fast Fourier transform & {\tt idz\_frm.f}
\\\hline
%
{\tt idz\_sfrmi} & initializes routine {\tt idz\_sfrm} &
{\tt idz\_frm.f} \\\hline
%
{\tt idz\_snorm} & estimates the spectral norm of a matrix specified by
routines for applying the matrix and its adjoint to arbitrary
vectors; this routine uses the power method with a random starting
vector & {\tt idz\_snorm.f} \\\hline
%
{\tt idzp\_aid} & computes the ID of an arbitrary (generally dense)
matrix, to a specified precision; this routine is randomized, and must
be initialized with routine {\tt idz\_frmi} & {\tt idzp\_aid.f}
\\\hline
%
{\tt idzp\_asvd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified precision; this routine is randomized, and must
be initialized with routine {\tt idz\_frmi} & {\tt idzp\_asvd.f}
\\\hline
%
{\tt idzp\_id} & computes the ID of an arbitrary (generally dense)
matrix, to a specified precision; this routine is often less efficient
than routine {\tt idzp\_aid} & {\tt idz\_id.f} \\\hline
%
{\tt idzp\_qrpiv} & computes the pivoted $QR$ decomposition of an
arbitrary (generally dense) matrix via Householder transformations,
stopping at a specified precision of the decomposition &
{\tt idz\_qrpiv.f} \\\hline
%
{\tt idzp\_rid} & computes the ID, to a specified precision, of a
matrix specified by a routine for applying its adjoint to arbitrary
vectors; this routine is randomized & {\tt idzp\_rid.f} \\\hline
%
{\tt idzp\_rsvd} & computes the SVD, to a specified precision, of a
matrix specified by routines for applying the matrix and its adjoint
to arbitrary vectors; this routine is randomized & {\tt idzp\_rsvd.f}
\\\hline
%
{\tt idzp\_svd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified precision; this routine is often less efficient
than routine {\tt idzp\_asvd} & {\tt idz\_svd.f} \\\hline
%
{\tt idzr\_aid} & computes the ID of an arbitrary (generally dense)
matrix, to a specified rank; this routine is randomized, and must be
initialized by routine {\tt idzr\_aidi} & {\tt idzr\_aid.f} \\\hline
%
{\tt idzr\_aidi} & initializes routine {\tt idzr\_aid} &
{\tt idzr\_aid.f} \\\hline
%
{\tt idzr\_asvd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified rank; this routine is randomized, and must be
initialized with routine {\tt idz\_aidi} & {\tt idzr\_asvd.f}
\\\hline
%
{\tt idzr\_id} & computes the ID of an arbitrary (generally dense)
matrix, to a specified rank; this routine is often less efficient than
routine {\tt idzr\_aid} & {\tt idz\_id.f} \\\hline
%
{\tt idzr\_qrpiv} & computes the pivoted $QR$ decomposition of an
arbitrary (generally dense) matrix via Householder transformations,
stopping at a specified rank of the decomposition & {\tt idz\_qrpiv.f}
\\\hline
```

```
%
{\tt idzr\_rid} & computes the ID, to a specified rank, of a matrix
specified by a routine for applying its adjoint to arbitrary vectors;
this routine is randomized & {\tt idzr\_rid.f} \\\hline
%
{\tt idzr\_rsvd} & computes the SVD, to a specified rank, of a matrix
specified by routines for applying the matrix and its adjoint to
arbitrary vectors; this routine is randomized & {\tt idzr\_rsvd.f}
\\\hline
%
{\tt idzr\_svd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified rank; this routine is often less efficient than
routine {\tt idzr\_asvd} & {\tt idz\_svd.f} \\
%
\end{supertabular}
\end{center}



\section{Documentation in the source codes}

Each routine in the source codes includes documentation
in the comments immediately following the declaration
of the subroutine's calling sequence.
This documentation describes the purpose of the routine,
the input and output variables, and the required work arrays (if any).
This documentation also cites relevant references.
Please pay attention to the {\it N.B.}'s;
{\it N.B.} stands for {\it nota bene} (Latin for ``note well'')
and highlights important information about the routines.



\section{Notation and decompositions}
\label{defs}

This section sets notational conventions employed
in this documentation and the associated software,
and defines both the singular value decomposition (SVD)
and the interpolative decomposition (ID).
For information concerning other mathematical objects
used in the code (such as Householder transformations,
pivoted $QR$ decompositions, and discrete and fast Fourier transforms
--- DFTs and FFTs), see, for example,~\cite{golub-van_loan}.
For detailed descriptions and proofs of the mathematical facts
discussed in the present section, see, for example,
\cite{golub-van_loan} and the references
in~\cite{halko-martinsson-tropp}.

Throughout this document and the accompanying software distribution,
$\| \x \|$ always denotes the Euclidean norm of the vector $\x$,
and $\| A \|$ always denotes the spectral norm of the matrix $A$.
Subsection~\ref{Euclidean} below defines the Euclidean norm;
Subsection~\ref{spectral} below defines the spectral norm.
We use $A^*$ to denote the adjoint of the matrix $A$.


\subsection{Euclidean norm}
\label{Euclidean}

For any positive integer $n$, and vector $\x$ of length $n$,
the Euclidean ($l^2$) norm $\| \x \|$ is
%
\begin{equation}
```

```
\| \x \| = \sqrt{ \sum_{k=1}^n |x_k|^2 },
\end{equation}
%
where $x_1$,~$x_2$, \dots, $x_{n-1}$,~$x_n$ are the entries of $\x$.


\subsection{Spectral norm}
\label{spectral}

For any positive integers $m$ and $n$, and $m \times n$ matrix $A$,
the spectral ($l^2$ operator) norm $\| A \|$ is
%
\begin{equation}
\| A_{m \times n} \|
= \max \frac{\| A_{m \times n} \, \x_{n \times 1} \|}
            {\| \x_{n \times 1} \|},
\end{equation}
%
where the $\max$ is taken over all $n \times 1$ column vectors $\x$
such that $\| \x \| \ne 0$.


\subsection{Singular value decomposition (SVD)}

For any positive real number $\epsilon$,
positive integers $k$, $m$, and $n$ with $k \le m$ and $k \le n$,
and any $m \times n$ matrix $A$,
a rank-$k$ approximation to $A$ in the form of an SVD
(to precision $\epsilon$) consists of an $m \times k$ matrix $U$
whose columns are orthonormal, an $n \times k$ matrix $V$
whose columns are orthonormal, and a diagonal $k \times k$ matrix
$\Sigma$ with diagonal entries
$\Sigma_{1,1} \ge \Sigma_{2,2} \ge \dots \ge \Sigma_{n-1,n-1}
                                          \ge \Sigma_{n,n} \ge 0$,
such that
%
\begin{equation}
\| A_{m \times n} - U_{m \times k} \, \Sigma_{k \times k}
                 \, (V^*)_{k \times n} \| \le \epsilon.
\end{equation}
%
The product $U \, \Sigma \, V^*$ is known as an SVD.
The columns of $U$ are known as left singular vectors;
the columns of $V$ are known as right singular vectors.
The diagonal entries of $\Sigma$ are known as singular values.

When $k = m$ or $k = n$, and $A = U \, \Sigma \, V^*$,
then $U \, \Sigma \, V^*$ is known as the SVD
of $A$; the columns of $U$ are the left singular vectors of $A$,
the columns of $V$ are the right singular vectors of $A$,
and the diagonal entries of $\Sigma$ are the singular values of $A$.
For any positive integer $k$ with $k < m$ and $k < n$,
there exists a rank-$k$ approximation to $A$ in the form of an SVD,
to precision $\sigma_{k+1}$, where $\sigma_{k+1}$ is the $(k+1)^\st$
greatest singular value of $A$.


\subsection{Interpolative decomposition (ID)}

For any positive real number $\epsilon$,
positive integers $k$, $m$, and $n$ with $k \le m$ and $k \le n$,
and any $m \times n$ matrix $A$,
a rank-$k$ approximation to $A$ in the form of an ID
(to precision $\epsilon$) consists of a $k \times n$ matrix $P$,
```

```
and an $m \times k$ matrix $B$ whose columns constitute a subset
of the columns of $A$, such that
%
\begin{enumerate}
\item $\| A_{m \times n} - B_{m \times k} \, P_{k \times n} \|
      \le \epsilon$,
\item some subset of the columns of $P$ makes up the $k \times k$
      identity matrix, and
\item every entry of $P$ has an absolute value less than or equal
      to a reasonably small positive real number, say 2.
\end{enumerate}
%
The product $B \, P$ is known as an ID.
The matrix $P$ is known as the projection or interpolation matrix
of the ID. Property~1 above approximates each column of $A$
via a linear combination of the columns of $B$
(which are themselves columns of $A$), with the coefficients
in the linear combination given by the entries of $P$.

The interpolative decomposition is ``interpolative''
due to Property~2 above. The ID is numerically stable
due to Property~3 above.
It follows from Property~2 that the least ($k^\th$ greatest) singular value
of $P$ is at least 1. Combining Properties~2 and~3 yields that
%
\begin{equation}
\| P_{k \times n} \| \le \sqrt{4k(n-k)+1}.
\end{equation}

When $k = m$ or $k = n$, and $A = B \, P$,
then $B \, P$ is known as the ID of $A$.
For any positive integer $k$ with $k < m$ and $k < n$,
there exists a rank-$k$ approximation to $A$ in the form of an ID,
to precision $\sqrt{k(n-k)+1} \; \sigma_{k+1}$,
where $\sigma_{k+1}$ is the $(k+1)^\st$ greatest singular value of $A$
(in fact, there exists an ID in which every entry
of the projection matrix $P$ has an absolute value less than or equal
to 1).



\section{Bug reports, feedback, and support}

Please let us know about errors in the software or in the documentation
via e-mail to {\tt tygert@aya.yale.edu}.
We would also appreciate hearing about particular applications of the codes,
especially in the form of journal articles
e-mailed to {\tt tygert@aya.yale.edu}.
Mathematical and technical support may also be available via e-mail. Enjoy!



\bibliographystyle{siam}
\bibliography{doc}


\end{document}

**************************************************

==============================================================================

Fourth Party Dependency #4 Name : numpy
Fourth Party Dependency #4 License : BSD License
```

```
Fourth Party Dependency #4 Copyright :

Copyright (c) 2005-2024, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

----

This binary distribution of NumPy also bundles the following software:

Name: OpenBLAS
Files: numpy/.dylibs/libopenblas*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

      1. Redistributions of source code must retain the above copyright
         notice, this list of conditions and the following disclaimer.

      2. Redistributions in binary form must reproduce the above copyright
         notice, this list of conditions and the following disclaimer in
         the documentation and/or other materials provided with the
         distribution.
      3. Neither the name of the OpenBLAS project nor the names of
         its contributors may be used to endorse or promote products
         derived from this software without specific prior written
         permission.
```

```
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: numpy/.dylibs/libopenblas*.so
Description: bundled in OpenBLAS
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause-Attribution
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt


Note that the following files are vendored in the repository and sdist but
 not
installed in built numpy packages:

Name: Meson
Files: vendored-meson/meson/*
License: Apache 2.0
  For license text, see vendored-meson/meson/COPYING

Name: spin
Files: .spin/cmds.py
License: BSD-3
  For license text, see .spin/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.
```

```
Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------
tempita

License
-------

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
--------------------------------------------------------------------------------

dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

--------------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

--------------------------------------------------------------------------------
Meson

Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
```

```
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
.spin

BSD 3-Clause License

Copyright (c) 2021--2022, Scientific Python project
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

--------------------------------------------------------------------------------
LICENSES_bundled in different directories:
--------------------------------------------------------------------------------
```

```
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna Â© 2005â€“2019 NumPy Developers, Licensed under the
 3-clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: numpy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------

Name: SFC64
```

```
Â© 2005â€"2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64

The MIT License
```

```
PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.
```

```
Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
```

```
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

--------------------------------------------------------------------------------

Name: numpy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
```

```
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


==============================================================================

Fourth Party Dependency #4 Name : threadpoolctl
Fourth Party Dependency #4 License : BSD 3-Clause License
Fourth Party Dependency #4 Copyright :

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of copyright holder nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Scott Lundberg / Component(s): shap 0.46.0

```
------------------------------ Top-level license --------------------------
package_name: shap
license_type: MIT License
license_text:
The MIT License (MIT)

Copyright (c) 2018 Scott Lundberg

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
==========================================================================

 shap 0.46.0 has dependencies on following libraries:

  cloudpickle
  numba
  numpy
  packaging
  pandas
  scikit-learn
  scipy
  slicer
  tqdm

__________________________________________________________________________
package_name: cloudpickle
license_type: BSD License
license_text:
This module was extracted from the `cloud` package, developed by
PiCloud, Inc.

Copyright (c) 2015, Cloudpickle contributors.
Copyright (c) 2012, Regents of the University of California.
Copyright (c) 2009 PiCloud, Inc. http://www.picloud.com.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
```

```
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the University of California, Berkeley nor the
      names of its contributors may be used to endorse or promote
      products derived from this software without specific prior written
      permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
package_name: numba
license_type: BSD License
license_text:
Copyright (c) 2012, Anaconda, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
package_name: numpy
license_type: BSD License

--------------------
Copyright (c) 2005-2024, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
```

```
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
```

```
Files: extra-dll\libopenb*.dll
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
```

```
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------
dragon4
```

```
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

--------------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

-------------------------------------------------------------------------------
LICENSES_bundled in different directories:
-------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
```

```
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: numpy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
```

```
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.
```

```
Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

--------------------------------------------------------------------------------

Name: numpy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
```

```
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
package_name: packaging
license_type: Apache Software License; BSD License
license_text:
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

--------------------------------------------------------------------------------
package_name: pandas
license_type: BSD 3-Clause License


Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2024, Open source contributors.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
package_name: scikit-learn
license_type: BSD License
license_text:
BSD 3-Clause License

Copyright (c) 2007-2024 The scikit-learn developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
package_name: slicer
license_type: MIT License
license_text:
MIT License

Copyright (c) 2023 The InterpretML Contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
package_name: tqdm
license_type: MIT License; Mozilla Public License 2.0 (MPL 2.0)
license_text:
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96
```

```
package_name: scipy
license_type: BSD License
license_text:
Copyright (c) 2001-2002 Enthought, Inc. 2003-2024, SciPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
----

---------------------------

The SciPy repository and source distributions bundle a number of libraries
 that
are compatibly licensed.  We list these here.


Name: Decorator
Files: scipy/_lib/decorator.py
License: 2-clause BSD
# Copyright (c) 2005-2015, Michele Simionato
# All rights reserved.

# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are
# met:

#   Redistributions of source code must retain the above copyright
#   notice, this list of conditions and the following disclaimer.
#   Redistributions in bytecode form must reproduce the above copyright
#   notice, this list of conditions and the following disclaimer in
#   the documentation and/or other materials provided with the
#   distribution.

# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
# "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
# LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
# A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
# HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
# INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
# BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
# OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
# ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
# TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
# USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
# DAMAGE.


Name: fast_matrix_market
Files: scipy/io/_fast_matrix_market/*
License: 2-clause BSD
  Copyright (C) 2020-2023 Adam Lugowski

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
```

```
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Name: pystreambuf
Files: scipy/io/_fast_matrix_market/src/pystreambuf.h
License:
Copyright (c) 2006, The Regents of the University of
3-clause BSD
  // SPDX-License-Identifier: BSD-3-Clause
/*
Based on https://gist.github.com/asford/544323a5da7dddad2c9174490eb5ed06

Original license text
---------------------

This component utilizes components derived from cctbx, available at
http://cci.lbl.gov/cctbx_sources/boost_adaptbx/python_streambuf.h

*** License agreement ***

cctbx Copyright (c) 2006, The Regents of the University of
California, through Lawrence Berkeley National Laboratory (subject to
receipt of any required approvals from the U.S. Dept. of Energy).  All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

(1) Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

(2) Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

(3) Neither the name of the University of California, Lawrence Berkeley
National Laboratory, U.S. Dept. of Energy nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

You are under no obligation whatsoever to provide any bug fixes,
patches, or upgrades to the features, functionality or performance of
the source code ("Enhancements") to anyone; however, if you choose to
make your Enhancements available either publicly, or directly to
Lawrence Berkeley National Laboratory, without imposing a separate
written license agreement for such Enhancements, then you hereby grant
the following license: a  non-exclusive, royalty-free perpetual license
to install, use, modify, prepare derivative works, incorporate into
other computer software, distribute, and sublicense such enhancements or
derivative works thereof, in binary and source code form.

*/
```

```
Name: fast_float
Files: scipy/io/_fast_matrix_market/fast_matrix_market/dependencies/
fast_float/*
License: MIT
  MIT License

Copyright (c) 2021 The fast_float authors

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Name: ryu
Files: scipy/io/_fast_matrix_market/fast_matrix_market/dependencies/ryu/*
License: BSL-1.0
  Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Name: ID
Files: scipy/linalg/src/id_dist/*
License: 3-clause BSD
  Copyright 2014 by P.-G. Martinsson, V. Rokhlin,
```

```
Y. Shkolnisky, and M. Tygert.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNERS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: L-BFGS-B
Files: scipy/optimize/lbfgsb/*
License:
Copyright (c) 2004 David M. Cooke <cookedm@physics.mcmaster.ca>
BSD license
  From the website for the L-BFGS-B code (from at
http://www.ece.northwestern.edu/~nocedal/lbfgsb.html):

"""
L-BFGS-B is a limited-memory quasi-Newton code for bound-constrained
optimization, i.e. for problems where the only constraints are of the
form l<= x <= u.
"""

This is a Python wrapper (using F2PY) written by David M. Cooke
<cookedm@physics.mcmaster.ca> and released as version 0.9 on April 9, 2004.
The wrapper was slightly modified by Joonas Paalasmaa for the 3.0 version
in March 2012.

License of L-BFGS-B (Fortran code)
==================================

The version included here (in lbfgsb.f) is 3.0 (released April 25, 2011). It
 was
written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal <nocedal@ece.nwu.edu>.
 It
carries the following condition for use:

  """
  This software is freely available, but we expect that all publications
  describing work using this software, or all commercial products using it,
  quote at least one of the references given below. This software is
 released
  under the BSD License.

  References
    * R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound
      Constrained Optimization, (1995), SIAM Journal on Scientific and
      Statistical Computing, 16, 5, pp. 1190-1208.
    * C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B,
      FORTRAN routines for large scale bound constrained optimization
 (1997),
      ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.
    * J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-
BFGS-B,
      FORTRAN routines for large scale bound constrained optimization
 (2011),
      ACM Transactions on Mathematical Software, 38, 1.
  """
```

```
The Python wrapper
==================

This code uses F2PY (http://cens.ioc.ee/projects/f2py2e/) to generate
the wrapper around the Fortran code.

The Python code and wrapper are copyrighted 2004 by David M. Cooke
<cookedm@physics.mcmaster.ca>.

Example usage
=============

An example of the usage is given at the bottom of the lbfgsb.py file.
Run it with 'python lbfgsb.py'.

License for the Python wrapper
==============================

Copyright (c) 2004 David M. Cooke <cookedm@physics.mcmaster.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

Name: LAPJVsp
Files: scipy/sparse/csgraph/_matching.pyx
License: 3-clause BSD
Copyright 1987-, A. Volgenant/Amsterdam School of Economics,
                 University of Amsterdam

  Distributed under 3-clause BSD license with permission from
  University of Amsterdam.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
```

```
     this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

  3. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
    without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
  POSSIBILITY OF SUCH DAMAGE.


Name: SuperLU
Files: scipy/sparse/linalg/dsolve/SuperLU/*
License: 3-clause BSD
  Copyright (c) 2003, The Regents of the University of California, through
Lawrence Berkeley National Laboratory (subject to receipt of any required
approvals from U.S. Dept. of Energy)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

(1) Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
(2) Redistributions in binary form must reproduce the above copyright
 notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
(3) Neither the name of Lawrence Berkeley National Laboratory, U.S. Dept. of
Energy nor the names of its contributors may be used to endorse or promote
products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: ARPACK
Files: scipy/sparse/linalg/eigen/arpack/ARPACK/*
License: 3-clause BSD

BSD Software License
```

```
Pertains to ARPACK and P_ARPACK

Copyright (c) 1996-2008 Rice University.
Developed by D.C. Sorensen, R.B. Lehoucq, C. Yang, and K. Maschhoff.
All rights reserved.

Arpack has been renamed to arpack-ng.

Copyright (c) 2001-2011 - Scilab Enterprises
Updated by Allan Cornet, Sylvestre Ledru.

Copyright (c) 2010 - Jordi Gutiérrez Hermoso (Octave patch)

Copyright (c) 2007 - Sébastien Fabbro (gentoo patch)

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: Qhull
Files: scipy/spatial/qhull/*
License: Qhull license (BSD-like)

                      Qhull, Copyright (c) 1993-2019

                            C.B. Barber
                           Arlington, MA

                               and

       The National Science and Technology Research Center for
        Computation and Visualization of Geometric Structures
                        (The Geometry Center)
                      University of Minnesota

                      email: qhull@qhull.org

This software includes Qhull from C.B. Barber and The Geometry Center.
Qhull is copyrighted as noted above.  Qhull is free software and may
be obtained via http from www.qhull.org.  It may be freely copied, modified,
```

```
and redistributed under the following conditions:

1. All copyright notices must remain intact in all files.

2. A copy of this text file must be distributed along with any copies
   of Qhull that you redistribute; this includes copies that you have
   modified, or copies of programs or other software products that
   include Qhull.

3. If you modify Qhull, you must include a notice giving the
   name of the person performing the modification, the date of
   modification, and the reason for such modification.

4. When distributing modified versions of Qhull, or other software
   products that include Qhull, you must provide notice that the original
   source code may be obtained as noted above.

5. There is no warranty or other guarantee of fitness for Qhull, it is
   provided solely "as is".  Bug reports or fixes may be sent to
   qhull_bug@qhull.org; the authors may or may not act on them as
   they desire.

Name: Cephes
Files: scipy/special/cephes/*
License: 3-clause BSD
  Distributed under 3-clause BSD license with permission from the author,
  see https://lists.debian.org/debian-legal/2004/12/msg00295.html

  Cephes Math Library Release 2.8:  June, 2000
  Copyright 1984, 1995, 2000 by Stephen L. Moshier

  This software is derived from the Cephes Math Library and is
  incorporated herein by permission of the author.

  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:
      * Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.
      * Neither the name of the <organization> nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
  WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
  DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
  DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
  (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
  LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
  ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
  SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
Name: Faddeeva
Files: scipy/special/Faddeeva.*
License: MIT
  Copyright (c) 2012 Massachusetts Institute of Technology

  Permission is hereby granted, free of charge, to any person obtaining
  a copy of this software and associated documentation files (the
  "Software"), to deal in the Software without restriction, including
  without limitation the rights to use, copy, modify, merge, publish,
  distribute, sublicense, and/or sell copies of the Software, and to
  permit persons to whom the Software is furnished to do so, subject to
  the following conditions:

  The above copyright notice and this permission notice shall be
  included in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: qd
Files: scipy/special/cephes/dd_*.[ch]
License: modified BSD license ("BSD-LBNL-License.doc")

  Copyright (c) 2003-2009, The Regents of the University of California,
  through Lawrence Berkeley National Laboratory (subject to receipt of
  any required approvals from U.S. Dept. of Energy) All rights reserved.

  This work was supported by the Director, Office of Science, Division
  of Mathematical, Information, and Computational Sciences of the
  U.S. Department of Energy under contract numbers DE-AC03-76SF00098 and
  DE-AC02-05CH11231.

  1. Redistribution and use in source and binary forms, with or
  without modification, are permitted provided that the following
  conditions are met:

  (1) Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.

  (2) Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

  (3) Neither the name of the University of California, Lawrence
  Berkeley National Laboratory, U.S. Dept. of Energy nor the names
  of its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

  2. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  3. You are under no obligation whatsoever to provide any bug fixes,
  patches, or upgrades to the features, functionality or performance of
  the source code ("Enhancements") to anyone; however, if you choose to
  make your Enhancements available either publicly, or directly to
  Lawrence Berkeley National Laboratory, without imposing a separate
  written license agreement for such Enhancements, then you hereby grant
  the following license: a non-exclusive, royalty-free perpetual license
  to install, use, modify, prepare derivative works, incorporate into
  other computer software, distribute, and sublicense such enhancements
  or derivative works thereof, in binary and source code form.

Name: pypocketfft
Files: scipy/fft/_pocketfft/[pocketfft.h, pypocketfft.cxx]
License: 3-Clause BSD

  Copyright (C) 2010-2019 Max-Planck-Society
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its contributors
 may
  be used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: uarray
Files: scipy/_lib/uarray/*
License: 3-Clause BSD
  BSD 3-Clause License

Copyright (c) 2018, Quansight-Labs
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: ampgo
Files: benchmarks/benchmarks/go_benchmark_functions/*.py
License: MIT
  Functions for testing global optimizers, forked from the AMPGO project,
  https://code.google.com/archive/p/ampgo

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------

Name: pybind11
Files: no source files are included, however pybind11 binary artifacts are
  included with every binary build of SciPy.
License:
  Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights
 reserved.

  Redistribution and use in source and binary forms, with or without
```

```
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
 this
     list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  3. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
  WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE
  FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: HiGHS
Files: scipy/optimize/_highs/*
License: MIT
  MIT License

Copyright (c) 2024 HiGHS

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

Name: Boost
```

```
Files: scipy/_lib/boost_math/*
License: Boost Software License - Version 1.0
  Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Name: Biasedurn
Files: scipy/stats/biasedurn/*
License 3-Clause BSD
   The C++ code for these distributions without binding to the R project
are available here:
https://www.agner.org/random/stocc.zip
permission to use it in SciPy under the new BSD license.
By Agner Fog. Technical University of Denmark
copyright: 2008 - 2014. GNU General Public License

Name: UNU.RAN
Files: scipy/_lib/unuran/*
License 3-Clause BSD
copyright by Renee Touzin
  Permission was granted on 23 March 2021 by Josef Leydold
 (josef.leydold@wu.ac.at) and Wolfgang Hoermann (hormannw@bound.edu.tr)
to use the UNU.RAN code excluding the uniform random number generator in
 src/uniform/mrg31k3p.c (copyright by Renee Touzin)
under the BSD licence.

Name: NumPy
Files: scipy/stats/_rcont/[logfactorial.h,logfactorial.c]
License 3-Clause BSD
  Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
```

```
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Name: array-api-compat
Files: scipy/_lib/array-api-compat/*
License: MIT
 MIT License

Copyright (c) 2022 Consortium for Python Data API Standards

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

Name: Tempita
Files: scipy/_build_utils/tempita/*
License: MIT
License
-------

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
```

```
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


Name: mdspan
Files: scipy/special/special/third_party/kokkos/mdspan.hpp
License: Apache License v2.0 with LLVM Exceptions

// ***********************************************************************
//
//                        Kokkos v. 4.0
//       Copyright (2022) National Technology & Engineering
//               Solutions of Sandia, LLC (NTESS).
//
// Under the terms of Contract DE-NA0003525 with NTESS,
// the U.S. Government retains certain rights in this software.
//
// Part of Kokkos, under the Apache License v2.0 with LLVM Exceptions.
// See https://kokkos.org/LICENSE for license information.
// SPDX-License-Identifier: Apache-2.0 WITH LLVM-exception





Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------
Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
```

```
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
```

```
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
```

```
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
```

```
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice
```

```
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
```

Provider: seancfoley / Component(s): ipaddress 5.4.2

```
TOP-LEVEL COPYRIGHT NOTICE for com.github.seancfoley:ipaddress
/*
 * Copyright 2016-2018 Sean C Foley
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *     or at
 *     https://github.com/seancfoley/IPAddress/blob/master/LICENSE
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
---------separator---------
TOP-LEVEL COPYRIGHT LICENSE for com.github.seancfoley:ipaddress
 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
```

```
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "{}"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
    identification within third-party archives.
Copyright {yyyy} {name of copyright owner}
Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Secret Labs AB, Fredrik Lundh / Component(s): Python Imaging Library (Pillow) 3.4.2

```
Attribution:

Engineering/Development must ensure that the following license is included
 in the documentation of the Oracle product that includes the code:


The Python Imaging Library (PIL) is

Copyright © 1997-2011 by Secret Labs AB
Copyright © 1995-2011 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its associated
 documentation, you agree that you have read, understood, and will comply
 with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its
 associated documentation for any purpose and without fee is hereby granted,
 provided that the above copyright notice appears in all copies, and that
 both that copyright notice and this permission notice appear in supporting
 documentation, and that the name of Secret Labs AB or the author not be
 used in advertising or publicity pertaining to distribution of the software
 without specific, written prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
 SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.
 IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR ANY SPECIAL,
 INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THIS SOFTWARE.
Contact GitHub API Training Shop Blog About
© 2016 GitHub, Inc. Terms Privacy Security Status Help
```

Provider: Sergey Buturlakin / Component(s): DefinitelyTyped history type definitions 4.7.2

```
@types/history 4.7.2
COPYRIGHT LICENSE:

These definitions were written by Sergey Buturlakin https://github.com/
sergey-buturlakin,
Nathan Brown https://github.com/ngbrown, Young Rok Kim https://github.com/
rokoroku.


This project is licensed under the MIT license.
Copyrights are respective of each contributor listed at the beginning of
 each definition file.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Sergey Buturlakin / Component(s): DefinitelyTyped react-router type definitions 4.4.5

```
@types/react-router 4.4.5
COPYRIGHT:

// Definitions by: Sergey Buturlakin <https://github.com/sergey-buturlakin>
//                 Yuichi Murata <https://github.com/mrk21>
//                 Václav Ostrožlík <https://github.com/vasek17>
//                 Nathan Brown <https://github.com/ngbrown>
//                 Alex Wendland <https://github.com/awendland>
//                 Kostya Esmukov <https://github.com/KostyaEsmukov>
//                 John Reilly <https://github.com/johnnyreilly>
//                 Karol Janyst <https://github.com/LKay>
//                 Dovydas Navickas <https://github.com/DovydasNavickas>
//                 Tanguy Krotoff <https://github.com/tkrotoff>
//                 Huy Nguyen <https://github.com/huy-nguyen>
//                 Jérémy Fauvel <https://github.com/grmiade>
//                 Daniel Roth <https://github.com/DaIgeb>
//                 Egor Shulga <https://github.com/egorshulga>
//                 Youen Toupin <https://github.com/neuoy>
//                 Rahul Raina <https://github.com/rraina>
//                 Maksim Sharipov <https://github.com/pret-a-porter>
//                 Duong Tran <https://github.com/t49tran>
//                 Ben Smith <https://github.com/8enSmith>
//                 Wesley Tsai <https://github.com/wezleytsai>
//                 Sebastian Silbermann <https://github.com/eps1lon>
// Definitions: https://github.com/DefinitelyTyped/DefinitelyTyped
// TypeScript Version: 2.8


LICENSE: MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


*************************
4P Dependencies:
*************************


@types/history 4.7.2
COPYRIGHT LICENSE:

These definitions were written by Sergey Buturlakin https://github.com/
sergey-buturlakin,
Nathan Brown https://github.com/ngbrown, Young Rok Kim https://github.com/
rokoroku.


This project is licensed under the MIT license.
Copyrights are respective of each contributor listed at the beginning of
 each definition file.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



---
@types/react 16.8.3
COPYRIGHT:

// Project: http://facebook.github.io/react/
// Definitions by: Asana <https://asana.com>
//                 AssureSign <http://www.assuresign.com>
//                 Microsoft <https://microsoft.com>
//                 John Reilly <https://github.com/johnnyreilly>
//                 Benoit Benezech <https://github.com/bbenezech>
//                 Patricio Zavolinsky <https://github.com/pzavolinsky>
//                 Digiguru <https://github.com/digiguru>
//                 Eric Anderson <https://github.com/ericanderson>
//                 Tanguy Krotoff <https://github.com/tkrotoff>
//                 Dovydas Navickas <https://github.com/DovydasNavickas>
//                 Stéphane Goetz <https://github.com/onigoetz>
//                 Josh Rutherford <https://github.com/theruther4d>
//                 Guilherme Hübner <https://github.com/guilhermehubner>
//                 Ferdy Budhidharma <https://github.com/ferdaber>
```

```
//                  Johann Rakotoharisoa <https://github.com/jrakotoharisoa>
//                  Olivier Pascal <https://github.com/pascaloliv>
//                  Martin Hochel <https://github.com/hotell>
//                  Frank Li <https://github.com/franklixuefei>
//                  Jessica Franco <https://github.com/Jessidhia>
//                  Paul Sherman <https://github.com/pshrmn>
//                  Saransh Kataria <https://github.com/saranshkataria>
//                  Kanitkorn Sujautra <https://github.com/lukyth>
//                  Sebastian Silbermann <https://github.com/eps1lon>
// Definitions: https://github.com/DefinitelyTyped/DefinitelyTyped
// TypeScript Version: 2.8


LICENSE: MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



----

@types/prop-types 15.7.1
COPYRIGHT and LICENSE:

These definitions were written by DovydasNavickas https://github.com/
DovydasNavickas, Ferdy Budhidharma https://github.com/ferdaber, Sebastian
 Silbermann https://github.com/eps1lon.


Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
---
csstype 2.2.0
COPYRIGHT and LICENSE:

Copyright (c) 2017-2018 Fredrik Nicol

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: Shawn Starr / Component(s): yum-utils 1.1.31

```
YUM-UTILS 1.1.13 - Included notices from all components of yum-utils; all
 modules are licensed under GPLv2 (extracted text included below copyright
 notices)

package-cleanup.py
debuginfo-install.py
find-repos-of-install.py
needs-restarting.py
repo-check.py
repo-graph.py
repo-rss-py
repoclosure.py
repo-diff.py
repo manage.py
repoquery.py
reposync.py
repotrack.py
show-changed-rco.py
verifytree.py
yum-builddep.py
yum-complete-transaction.py
yum-debug-dump.py
yum-debug-restore.py
yum-util-cli-template
yumdownloader.py
yum v3.4.3
yum/callback.py
yum/cli.py
yum/yum-updatesd.py
yum/yumcommands.py
yum/yummain.py
```

```
=====================================================

package-cleanup.py
# (C) 2005 Gijs Hollestelle, released under the GPL
# Copyright 2009 Red Hat
# Rewritten 2009 - Seth Vidal
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
#
=================================

debuginfo-install.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# Copyright 2007 Seth Vidal
=================================

find-repos-of-install.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# copyright 2008 red hat, inc

=================================
needs-restarting.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
```

```
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# Copyright 2009 Red Hat Inc
# written by Seth Vidal
==================================
repo-check.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

==================================
repo-graph.py

This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# (c) 2005 Panu Matilainen

==================================
repo-rss.py

This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# seth vidal 2005 (c) etc etc
==================================
repo-closure.py
This program is free software; you can redistribute it and/or modify
```

```
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# seth vidal 2005 (c) etc etc
==================================
repo-diff.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# (c) 2007 Red Hat. Written by skvidal@fedoraproject.org
==================================
repomanage.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

# (c) Copyright Seth Vidal 2004
==================================
repoquery.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# (c) pmatilai@laiskiainen.org
==================================
reposync.py
```

```
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# copyright 2006 Duke University
# author seth vidal
==================================
repotrack.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# (c) 2005 seth vidal skvidal at phy.duke.edu
==================================
show-changed-rco.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
==================================
verifytree.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
# copyright (c) 2008 Red Hat, Inc - written by Seth Vidal and Will Woods
==================================
yum-builddep.py
```

```
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
==================================
yum-complete-transaction.py

# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
==================================
yum-debug-dump.py

# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
## (c) 2008 Red Hat. Written by skvidal@fedoraproject.org
==================================
yum-debug-restore.py
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
## (c) 2008 Red Hat. Written by skvidal@fedoraproject.org
## james@fedoraproject.org
==================================
```

```
yum-util-cli-template
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
# Copyright 2007 Seth Vidal

==================================
yumdownloader.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software Foundation,
# Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
==================================
yum
----------------
YUM AUTHORS
----------------

Seth Vidal
Jeremy Katz
Adrian Likins
Matthew Miller
Michael Stenner
Icon Riabitsev
Ryan Tomayko
Paul Nasrat
Robert G. Brown
Hollis Blanchard
Grigory Bakunov
Menno Smits
Gijs Hollestelle
Terje Rosten
Luke Macken
James Bowes
Tim Lauridsen
Florian Festi
Jack Neely
James Antill
Panu Matilainen
Tambet Ingo
Valentina Mukhamedzhanova


Original Yup people:
Bryan Stillwell
```

```
Stephen Edie
Dan Burcaw
Troy Bengegerdes

==================================
yum/callback.py
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU Library General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
# Copyright 2005 Duke University
=====================================
yum/cli.pi
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU Library General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
# Copyright 2005 Duke University
# Written by Seth Vidal
=====================================
yum-updatesd.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

# (c)2006 Duke University, Red Hat, Inc.
# Seth Vidal
# Jeremy Katz
=====================================
yumcommands.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
```

```
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU Library General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
# Copyright 2006 Duke University
# Copyright 2013 Red Hat
# Written by Seth Vidal
====================================
yummanin.py
This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU Library General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.
# Copyright 2005 Duke University
=================================================================



GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
```

```
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
```

```
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
```

```
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
```

```
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
```

```
the "copyright" line and a pointer to where the full notice is found.


Copyright (C)

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
```

Provider: Shigeru Chiba / Component(s): Javassist 3.24.0-GA

```
Javassist 3.24.0-GA

Copyright (C) 1999-2018 by Shigeru Chiba, All rights reserved.

Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
 simple. It is a class library for editing bytecodes in Java; it enables
 Java programs to define a new class at runtime and to modify a class file
 when the JVM loads it. Unlike other similar bytecode editors, Javassist
 provides two levels of API: source level and bytecode level. If the users
 use the source- level API, they can edit a class file without knowledge
```

```
 of the specifications of the Java bytecode. The whole API is designed with
 only the vocabulary of the Java language. You can even specify inserted
 bytecode in the form of source text; Javassist compiles it on the fly. On
 the other hand, the bytecode-level API allows the users to directly edit a
 class file as other editors.

This software is distributed under the Mozilla Public License Version 1.1,
 the GNU Lesser General Public License Version 2.1 or later, or the Apache
 License Version 2.0.
---

Note: While the original software is distributed under multiple licenses,
 this distribution has elected to use the Apache 2.0 license.

Apache 2.0:
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
```

```
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.
```

```
    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Shigeru Chiba / Component(s): Javassist 3.24.1-GA

```
Javassist 3.24.0-GA

Copyright (C) 1999-2018 by Shigeru Chiba, All rights reserved.

Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
 simple. It is a class library for editing bytecodes in Java; it enables
 Java programs to define a new class at runtime and to modify a class file
```

```
 when the JVM loads it. Unlike other similar bytecode editors, Javassist
 provides two levels of API: source level and bytecode level. If the users
 use the source- level API, they can edit a class file without knowledge
 of the specifications of the Java bytecode. The whole API is designed with
 only the vocabulary of the Java language. You can even specify inserted
 bytecode in the form of source text; Javassist compiles it on the fly. On
 the other hand, the bytecode-level API allows the users to directly edit a
 class file as other editors.

This software is distributed under the Mozilla Public License Version 1.1,
 the GNU Lesser General Public License Version 2.1 or later, or the Apache
 License Version 2.0.
---

Note: While the original software is distributed under multiple licenses,
 this distribution has elected to use the Apache 2.0 license.

Apache 2.0:
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
```

```
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
```

```
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Shigeru Chiba / Component(s): Javassist 3.25.0-GA

```
Javassist 3.24.0-GA

Copyright (C) 1999-2019 by Shigeru Chiba, All rights reserved.
```

```
Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
 simple. It is a class library for editing bytecodes in Java; it enables
 Java programs to define a new class at runtime and to modify a class file
 when the JVM loads it. Unlike other similar bytecode editors, Javassist
 provides two levels of API: source level and bytecode level. If the users
 use the source- level API, they can edit a class file without knowledge
 of the specifications of the Java bytecode. The whole API is designed with
 only the vocabulary of the Java language. You can even specify inserted
 bytecode in the form of source text; Javassist compiles it on the fly. On
 the other hand, the bytecode-level API allows the users to directly edit a
 class file as other editors.

This software is distributed under the Mozilla Public License Version 1.1,
 the GNU Lesser General Public License Version 2.1 or later, or the Apache
 License Version 2.0.
---

Note: While the original software is distributed under multiple licenses,
 this distribution has elected to use the Apache 2.0 license.

Apache 2.0:
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
```

```
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
```

```
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Simon Eskildsen / Component(s): logrus 1.0.6

```
logrus 1.0.6
COPYRIGHT and LICENSE:
```

```
The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

License for "golang.org/x/crypto":
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

license for "golang.org/x/sys":
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
```

```
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


gopkg.in/gemnasium/logrus-airbrake-hook.v2 2.1.2
COPYRIGHT and LICENSE:
The MIT License (MIT)

Copyright (c) 2015 Gemnasium

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Simon Eskildsen / Component(s): logrus 1.4.2

```
The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

License for "golang.org/x/crypto":
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

license for "golang.org/x/sys":
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Simon Eskildsen / Component(s): logrus 1.8.0

```
The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

license for "golang.org/x/sys":
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Simon Eskildsen / Component(s): logrus 1.9.0

```
github.com/sirupsen/logrus
```

```
-------- Copyrights
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2012 Miki Tebeka <miki.tebeka@gmail.com>.

-------- License
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



----------------------- Dependencies Grouped by License ------------
-------- Dependency
gopkg.in/yaml.v3
-------- Copyrights
Copyright (c) 2011-2019 Canonical Ltd
Copyright (c) 2006-2010 Kirill Simonov
Copyright 2011-2016 Canonical Ltd.
Copyright (c) 2006-2011 Kirill Simonov
-------- Notices
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


-------- Dependencies Summary
gopkg.in/yaml.v3

-------- License used by Dependencies

This project is covered by two different licenses: MIT and Apache.

#### MIT License ####

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
```

```
copyright staring in 2011 when the project was ported over:

    apic.go emitterc.go parserc.go readerc.go scannerc.go
    writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

### Apache License ###

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/pmezard/go-difflib
-------- Copyrights
Copyright (c) 2013, Patrick Mezard

-------- Dependencies Summary
github.com/pmezard/go-difflib

-------- License used by Dependencies
Copyright (c) 2013, Patrick Mezard
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
    The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/davecgh/go-spew
-------- Copyrights
Copyright (c) 2012-2016 Dave Collins <dave@davec.name>
Copyright (c) 2015-2016 Dave Collins <dave@davec.name>
Copyright (c) 2013-2016 Dave Collins <dave@davec.name>
Copyright (c) 2013 Dave Collins <dave@davec.name>

-------- Dependencies Summary
github.com/davecgh/go-spew

-------- License used by Dependencies
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/stretchr/testify
-------- Copyrights
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.

-------- Dependencies Summary
```

```
github.com/sirupsen/logrus
github.com/stretchr/testify

-------- License used by Dependencies
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



----------------------- Dependencies Grouped by License ------------
-------- Dependency
golang.org/x/sys
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
```

```
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependencies Summary
golang.org/x/sys

-------- License used by Dependencies
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




_______________________________



                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: SmartBear Software / Component(s): swagger-annotations 1.5.21

```
COPYRIGHT: Copyright 2018 SmartBear Software

LICENSE:
                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

    Definitions.

    "License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

    "You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

    "Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

    "Object" form shall mean any form resulting from mechanical
 transformation or translation of a Source form, including but not limited
 to compiled object code, generated documentation, and conversions to other
 media types.

    "Work" shall mean the work of authorship, whether in Source or Object
 form, made available under the License, as indicated by a copyright notice
 that is included in or attached to the work (an example is provided in the
 Appendix below).

    "Derivative Works" shall mean any work, whether in Source or Object
 form, that is based on (or derived from) the Work and for which the
 editorial revisions, annotations, elaborations, or other modifications
 represent, as a whole, an original work of authorship. For the purposes
 of this License, Derivative Works shall not include works that remain
 separable from, or merely link (or bind by name) to the interfaces of, the
 Work and Derivative Works thereof.

    "Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
```

```
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

    "Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

    Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

    Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

    Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    (a) You must give any other recipients of the Work or Derivative Works a
 copy of this License; and

    (b) You must cause any modified files to carry prominent notices stating
 that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
 distribution, then any Derivative Works that You distribute must include a
 readable copy of the attribution notices contained within such NOTICE file,
 excluding those notices that do not pertain to any part of the Derivative
 Works, in at least one of the following places: within a NOTICE text file
 distributed as part of the Derivative Works; within the Source form or
 documentation, if provided along with the Derivative Works; or, within
 a display generated by the Derivative Works, if and wherever such third-
party notices normally appear. The contents of the NOTICE file are for
 informational purposes only and do not modify the License. You may add
 Your own attribution notices within Derivative Works that You distribute,
 alongside or as an addendum to the NOTICE text from the Work, provided that
 such additional attribution notices cannot be construed as modifying the
 License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
```

```
   Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

   Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

   Disclaimer of Warranty. Unless required by applicable law or agreed
 to in writing, Licensor provides the Work (and each Contributor provides
 its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
 OF ANY KIND, either express or implied, including, without limitation,
 any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

   Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

   Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
```

Provider: SmartBear Software / Component(s): swagger-core 1.5.4

```
1. Include the copyright notice from the NOTICES file in the documentation,
 and if there is any indication that there is any material other than those
 referenced in the list of notices (see Development Restrictions), contact
 legal immediately.
2. Include prominent notice with modified files stating that such files were
 modified.
3. Include the following License ONCE in the documentation even if there are
 multiple products licensed under the license:
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
     except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
```

```
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: SmartBear Software / Component(s): swagger-jersey2-jaxrs 1.5.19

```
swagger-jersey2-jaxrs  1.5.19

Copyright 2016 SmartBear Software

Licensed under the Apache

License, Version 2.0 (the "License");
you may not use this file

except in compliance with the License.
You may obtain a copy of

the License at [apache.org/licenses/LICENSE-2.0]

(http://www.apache.org/licenses/LICENSE-2.0)

Unless required by

applicable law or agreed to in writing, software
distributed

under the License is distributed on an "AS IS" BASIS,
WITHOUT

WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied.
See the License for the specific language governing

permissions and
limitations under the License.



Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use,

reproduction, and distribution as defined by Sections 1 through

9 of this document.

"Licensor" shall mean the copyright owner or entity authorized

by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and
```

```
all other entities that control, are controlled by, or are
under common control with that entity. For the purposes of this
definition, "control" means (i) the power, direct or indirect,
to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%)
or more of the outstanding shares, or (iii) beneficial
ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.
"Source" form shall mean the preferred form for making
modifications, including but not limited to software source
code, documentation source, and configuration files.
"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by
a copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or
Object form, that is based on (or derived from) the Work and
for which the editorial revisions, annotations, elaborations,
or other modifications represent, as a whole, an original work
of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or
merely link (or bind by name) to the interfaces of, the Work
and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including the
original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the
```

```
copyright owner or by an individual or Legal Entity authorized
to submit on behalf of the copyright owner. For the purposes of
this definition, "submitted" means any form of electronic,
verbal, or written communication sent to the Licensor or its
representatives, including but not limited to communication on
electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of,
the Licensor for the purpose of discussing and improving the
Work, but excluding communication that is conspicuously marked
or otherwise designated in writing by the copyright owner as
"Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal
Entity on behalf of whom a Contribution has been received by
Licensor and subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and
conditions of this License, each Contributor hereby grants to
You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free, irrevocable copyright license to reproduce, prepare
Derivative Works of, publicly display, publicly perform,
sublicense, and distribute the Work and such Derivative Works
in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions
of this License, each Contributor hereby grants to You a
perpetual, worldwide, non-exclusive, no-charge, royalty-free,
irrevocable (except as stated in this section) patent license
to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to
those patent claims licensable by such Contributor that are
necessarily infringed by their Contribution(s) alone or by
combination of their Contribution(s) with the Work to which
such Contribution(s) was submitted. If You institute patent
litigation against any entity (including a cross-claim or
```

```
counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or
contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of
the Work or Derivative Works thereof in any medium, with or
without modifications, and in Source or Object form, provided
that You meet the following conditions:
    You must give any other recipients of the Work or
Derivative Works a copy of this License; and
    You must cause any modified files to carry prominent
notices stating that You changed the files; and
    You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work, excluding
those notices that do not pertain to any part of the Derivative
Works; and
    If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute
must include a readable copy of the attribution notices
contained within such NOTICE file, excluding those notices that
do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file
distributed as part of the Derivative Works; within the Source
form or documentation, if provided along with the Derivative
Works; or, within a display generated by the Derivative Works,
if and wherever such third-party notices normally appear. The
contents of the NOTICE file are for informational purposes only
and do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed as
```

```
modifying the License.
    You may add Your own copyright statement to Your
modifications and may provide additional or different license
terms and conditions for use, reproduction, or distribution of
Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the
Work otherwise complies with the conditions stated in this
License.
5. Submission of Contributions. Unless You explicitly state
otherwise, any Contribution intentionally submitted for
inclusion in the Work by You to the Licensor shall be under the
terms and conditions of this License, without any additional
terms or conditions. Notwithstanding the above, nothing herein
shall supersede or modify the terms of any separate license
agreement you may have executed with Licensor regarding such
Contributions.
6. Trademarks. This License does not grant permission to use
the trade names, trademarks, service marks, or product names of
the Licensor, except as required for reasonable and customary
use in describing the origin of the Work and reproducing the
content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or
conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or
FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible
for determining the appropriateness of using or redistributing
the Work and assume any risks associated with Your exercise of
permissions under this License.
8. Limitation of Liability. In no event and under no legal
```

```
theory, whether in tort (including negligence), contract, or
otherwise, unless required by applicable law (such as
deliberate and grossly negligent acts) or agreed to in writing,
shall any Contributor be liable to You for damages, including
any direct, indirect, special, incidental, or consequential
damages of any character arising as a result of this License or
out of the use or inability to use the Work (including but not
limited to damages for loss of goodwill, work stoppage,
computer failure or malfunction, or any and all other
commercial damages or losses), even if such Contributor has
been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While
redistributing the Work or Derivative Works thereof, You may
choose to offer, and charge a fee for, acceptance of support,
warranty, indemnity, or other liability obligations and/or
rights consistent with this License. However, in accepting such
obligations, You may act only on Your own behalf and on Your
sole responsibility, not on behalf of any other Contributor,
and only if You agree to indemnify, defend, and hold each
Contributor harmless for any liability incurred by, or claims
asserted against, such Contributor by reason of your accepting
any such warranty or additional liability.
END OF TERMS AND CONDITIONS
====================================================
Dependencies
swagger-core 1.5.19
swagger-models 1.5.19
swagger-annotations 1.5.19
Copyright 2016 SmartBear Software
Licensed under the Apache
License, Version 2.0 (the "License");
you may not use this file
except in compliance with the License.
You may obtain a copy of
```

```
the License at [apache.org/licenses/LICENSE-2.0]

(http://www.apache.org/licenses/LICENSE-2.0)

Unless required by

applicable law or agreed to in writing, software
distributed

under the License is distributed on an "AS IS" BASIS,
WITHOUT

WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied.
See the License for the specific language governing

permissions and
limitations under the License.



Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use,

reproduction, and distribution as defined by Sections 1 through

9 of this document.

"Licensor" shall mean the copyright owner or entity authorized

by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and

all other entities that control, are controlled by, or are

under common control with that entity. For the purposes of this

definition, "control" means (i) the power, direct or indirect,

to cause the direction or management of such entity, whether by

contract or otherwise, or (ii) ownership of fifty percent (50%)

or more of the outstanding shares, or (iii) beneficial

ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making
```

```
modifications, including but not limited to software source
code, documentation source, and configuration files.
"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by
a copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or
Object form, that is based on (or derived from) the Work and
for which the editorial revisions, annotations, elaborations,
or other modifications represent, as a whole, an original work
of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or
merely link (or bind by name) to the interfaces of, the Work
and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including the
original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the
copyright owner or by an individual or Legal Entity authorized
to submit on behalf of the copyright owner. For the purposes of
this definition, "submitted" means any form of electronic,
verbal, or written communication sent to the Licensor or its
representatives, including but not limited to communication on
electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of,
the Licensor for the purpose of discussing and improving the
Work, but excluding communication that is conspicuously marked
or otherwise designated in writing by the copyright owner as
```

```
"Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal
Entity on behalf of whom a Contribution has been received by
Licensor and subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and
conditions of this License, each Contributor hereby grants to
You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free, irrevocable copyright license to reproduce, prepare
Derivative Works of, publicly display, publicly perform,
sublicense, and distribute the Work and such Derivative Works
in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions
of this License, each Contributor hereby grants to You a
perpetual, worldwide, non-exclusive, no-charge, royalty-free,
irrevocable (except as stated in this section) patent license
to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to
those patent claims licensable by such Contributor that are
necessarily infringed by their Contribution(s) alone or by
combination of their Contribution(s) with the Work to which
such Contribution(s) was submitted. If You institute patent
litigation against any entity (including a cross-claim or
counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or
contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of
the Work or Derivative Works thereof in any medium, with or
without modifications, and in Source or Object form, provided
that You meet the following conditions:
    You must give any other recipients of the Work or
```

```
Derivative Works a copy of this License; and
    You must cause any modified files to carry prominent

notices stating that You changed the files; and
    You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work, excluding

those notices that do not pertain to any part of the Derivative

Works; and
    If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute

must include a readable copy of the attribution notices

contained within such NOTICE file, excluding those notices that

do not pertain to any part of the Derivative Works, in at least

one of the following places: within a NOTICE text file

distributed as part of the Derivative Works; within the Source

form or documentation, if provided along with the Derivative

Works; or, within a display generated by the Derivative Works,

if and wherever such third-party notices normally appear. The

contents of the NOTICE file are for informational purposes only

and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed as

modifying the License.

    You may add Your own copyright statement to Your

modifications and may provide additional or different license

terms and conditions for use, reproduction, or distribution of

Your modifications, or for any such Derivative Works as a

whole, provided Your use, reproduction, and distribution of the

Work otherwise complies with the conditions stated in this

License.

5. Submission of Contributions. Unless You explicitly state

otherwise, any Contribution intentionally submitted for

inclusion in the Work by You to the Licensor shall be under the
```

terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

```
9. Accepting Warranty or Additional Liability. While
redistributing the Work or Derivative Works thereof, You may
choose to offer, and charge a fee for, acceptance of support,
warranty, indemnity, or other liability obligations and/or
rights consistent with this License. However, in accepting such
obligations, You may act only on Your own behalf and on Your
sole responsibility, not on behalf of any other Contributor,
and only if You agree to indemnify, defend, and hold each
Contributor harmless for any liability incurred by, or claims
asserted against, such Contributor by reason of your accepting
any such warranty or additional liability.
END OF TERMS AND CONDITIONS
----------------------------------------------
jackson-databind 2.9.5
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use,
reproduction, and distribution as defined by Sections 1 through
9 of this document.
"Licensor" shall mean the copyright owner or entity authorized
by the copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and
all other entities that control, are controlled by, or are
under common control with that entity. For the purposes of this
definition, "control" means (i) the power, direct or indirect,
to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%)
or more of the outstanding shares, or (iii) beneficial
ownership of such entity.
```

```
"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.
"Source" form shall mean the preferred form for making
modifications, including but not limited to software source
code, documentation source, and configuration files.
"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by
a copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or
Object form, that is based on (or derived from) the Work and
for which the editorial revisions, annotations, elaborations,
or other modifications represent, as a whole, an original work
of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or
merely link (or bind by name) to the interfaces of, the Work
and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including the
original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the
copyright owner or by an individual or Legal Entity authorized
to submit on behalf of the copyright owner. For the purposes of
this definition, "submitted" means any form of electronic,
verbal, or written communication sent to the Licensor or its
representatives, including but not limited to communication on
electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of,
```

```
the Licensor for the purpose of discussing and improving the
Work, but excluding communication that is conspicuously marked
or otherwise designated in writing by the copyright owner as
"Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal
Entity on behalf of whom a Contribution has been received by
Licensor and subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and
conditions of this License, each Contributor hereby grants to
You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free, irrevocable copyright license to reproduce, prepare
Derivative Works of, publicly display, publicly perform,
sublicense, and distribute the Work and such Derivative Works
in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions
of this License, each Contributor hereby grants to You a
perpetual, worldwide, non-exclusive, no-charge, royalty-free,
irrevocable (except as stated in this section) patent license
to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to
those patent claims licensable by such Contributor that are
necessarily infringed by their Contribution(s) alone or by
combination of their Contribution(s) with the Work to which
such Contribution(s) was submitted. If You institute patent
litigation against any entity (including a cross-claim or
counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or
contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of
the Work or Derivative Works thereof in any medium, with or
```

```
without modifications, and in Source or Object form, provided
that You meet the following conditions:
    You must give any other recipients of the Work or
Derivative Works a copy of this License; and
    You must cause any modified files to carry prominent
notices stating that You changed the files; and
    You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work, excluding
those notices that do not pertain to any part of the Derivative
Works; and
    If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute
must include a readable copy of the attribution notices
contained within such NOTICE file, excluding those notices that
do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file
distributed as part of the Derivative Works; within the Source
form or documentation, if provided along with the Derivative
Works; or, within a display generated by the Derivative Works,
if and wherever such third-party notices normally appear. The
contents of the NOTICE file are for informational purposes only
and do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed as
modifying the License.
    You may add Your own copyright statement to Your
modifications and may provide additional or different license
terms and conditions for use, reproduction, or distribution of
Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the
Work otherwise complies with the conditions stated in this
```

```
License.
5. Submission of Contributions. Unless You explicitly state
otherwise, any Contribution intentionally submitted for
inclusion in the Work by You to the Licensor shall be under the
terms and conditions of this License, without any additional
terms or conditions. Notwithstanding the above, nothing herein
shall supersede or modify the terms of any separate license
agreement you may have executed with Licensor regarding such
Contributions.
6. Trademarks. This License does not grant permission to use
the trade names, trademarks, service marks, or product names of
the Licensor, except as required for reasonable and customary
use in describing the origin of the Work and reproducing the
content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or
conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or
FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible
for determining the appropriateness of using or redistributing
the Work and assume any risks associated with Your exercise of
permissions under this License.
8. Limitation of Liability. In no event and under no legal
theory, whether in tort (including negligence), contract, or
otherwise, unless required by applicable law (such as
deliberate and grossly negligent acts) or agreed to in writing,
shall any Contributor be liable to You for damages, including
any direct, indirect, special, incidental, or consequential
damages of any character arising as a result of this License or
out of the use or inability to use the Work (including but not
```

```
limited to damages for loss of goodwill, work stoppage,
computer failure or malfunction, or any and all other
commercial damages or losses), even if such Contributor has
been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While
redistributing the Work or Derivative Works thereof, You may
choose to offer, and charge a fee for, acceptance of support,
warranty, indemnity, or other liability obligations and/or
rights consistent with this License. However, in accepting such
obligations, You may act only on Your own behalf and on Your
sole responsibility, not on behalf of any other Contributor,
and only if You agree to indemnify, defend, and hold each
Contributor harmless for any liability incurred by, or claims
asserted against, such Contributor by reason of your accepting
any such warranty or additional liability.
END OF TERMS AND CONDITIONS
---------------------------------------------------
guava 20.0
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use,
reproduction, and distribution as defined by Sections 1 through
9 of this document.
"Licensor" shall mean the copyright owner or entity authorized
by the copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and
all other entities that control, are controlled by, or are
under common control with that entity. For the purposes of this
definition, "control" means (i) the power, direct or indirect,
```

```
to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%)
or more of the outstanding shares, or (iii) beneficial
ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.
"Source" form shall mean the preferred form for making
modifications, including but not limited to software source
code, documentation source, and configuration files.
"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by
a copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or
Object form, that is based on (or derived from) the Work and
for which the editorial revisions, annotations, elaborations,
or other modifications represent, as a whole, an original work
of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or
merely link (or bind by name) to the interfaces of, the Work
and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including the
original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the
copyright owner or by an individual or Legal Entity authorized
to submit on behalf of the copyright owner. For the purposes of
this definition, "submitted" means any form of electronic,
```

```
verbal, or written communication sent to the Licensor or its
representatives, including but not limited to communication on
electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of,
the Licensor for the purpose of discussing and improving the
Work, but excluding communication that is conspicuously marked
or otherwise designated in writing by the copyright owner as
"Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal
Entity on behalf of whom a Contribution has been received by
Licensor and subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and
conditions of this License, each Contributor hereby grants to
You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free, irrevocable copyright license to reproduce, prepare
Derivative Works of, publicly display, publicly perform,
sublicense, and distribute the Work and such Derivative Works
in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions
of this License, each Contributor hereby grants to You a
perpetual, worldwide, non-exclusive, no-charge, royalty-free,
irrevocable (except as stated in this section) patent license
to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to
those patent claims licensable by such Contributor that are
necessarily infringed by their Contribution(s) alone or by
combination of their Contribution(s) with the Work to which
such Contribution(s) was submitted. If You institute patent
litigation against any entity (including a cross-claim or
counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or
contributory patent infringement, then any patent licenses
```

```
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of
the Work or Derivative Works thereof in any medium, with or
without modifications, and in Source or Object form, provided
that You meet the following conditions:
    You must give any other recipients of the Work or
Derivative Works a copy of this License; and
    You must cause any modified files to carry prominent
notices stating that You changed the files; and
    You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work, excluding
those notices that do not pertain to any part of the Derivative
Works; and
    If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute
must include a readable copy of the attribution notices
contained within such NOTICE file, excluding those notices that
do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file
distributed as part of the Derivative Works; within the Source
form or documentation, if provided along with the Derivative
Works; or, within a display generated by the Derivative Works,
if and wherever such third-party notices normally appear. The
contents of the NOTICE file are for informational purposes only
and do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed as
modifying the License.
    You may add Your own copyright statement to Your
modifications and may provide additional or different license
terms and conditions for use, reproduction, or distribution of
```

```
Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the
Work otherwise complies with the conditions stated in this
License.
5. Submission of Contributions. Unless You explicitly state
otherwise, any Contribution intentionally submitted for
inclusion in the Work by You to the Licensor shall be under the
terms and conditions of this License, without any additional
terms or conditions. Notwithstanding the above, nothing herein
shall supersede or modify the terms of any separate license
agreement you may have executed with Licensor regarding such
Contributions.
6. Trademarks. This License does not grant permission to use
the trade names, trademarks, service marks, or product names of
the Licensor, except as required for reasonable and customary
use in describing the origin of the Work and reproducing the
content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or
conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or
FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible
for determining the appropriateness of using or redistributing
the Work and assume any risks associated with Your exercise of
permissions under this License.
8. Limitation of Liability. In no event and under no legal
theory, whether in tort (including negligence), contract, or
otherwise, unless required by applicable law (such as
deliberate and grossly negligent acts) or agreed to in writing,
shall any Contributor be liable to You for damages, including
```

```
any direct, indirect, special, incidental, or consequential
damages of any character arising as a result of this License or
out of the use or inability to use the Work (including but not
limited to damages for loss of goodwill, work stoppage,
computer failure or malfunction, or any and all other
commercial damages or losses), even if such Contributor has
been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While
redistributing the Work or Derivative Works thereof, You may
choose to offer, and charge a fee for, acceptance of support,
warranty, indemnity, or other liability obligations and/or
rights consistent with this License. However, in accepting such
obligations, You may act only on Your own behalf and on Your
sole responsibility, not on behalf of any other Contributor,
and only if You agree to indemnify, defend, and hold each
Contributor harmless for any liability incurred by, or claims
asserted against, such Contributor by reason of your accepting
any such warranty or additional liability.
END OF TERMS AND CONDITIONS
-------------------------------------------
reflections 0.9.11
DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE
                    Version 2, December 2004
 Copyright (C) 2004 Sam Hocevar <sam@hocevar.net>
 Everyone is permitted to copy and distribute verbatim or
modified
 copies of this license document, and changing it is allowed as
long
 as the name is changed.
            DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND
MODIFICATION
0. You just DO WHAT THE FUCK YOU WANT TO.
-------------------------------------------------------
```

```
javassist 3.21.0
Copyright (C) 1999-2017 by Shigeru Chiba, All rights reserved.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use,
reproduction, and distribution as defined by Sections 1 through
9 of this document.
"Licensor" shall mean the copyright owner or entity authorized
by the copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and
all other entities that control, are controlled by, or are
under common control with that entity. For the purposes of this
definition, "control" means (i) the power, direct or indirect,
to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%)
or more of the outstanding shares, or (iii) beneficial
ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.
"Source" form shall mean the preferred form for making
modifications, including but not limited to software source
code, documentation source, and configuration files.
"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by
a copyright notice that is included in or attached to the work
```

```
(an example is provided in the Appendix below).
"Derivative Works" shall mean any work, whether in Source or
Object form, that is based on (or derived from) the Work and
for which the editorial revisions, annotations, elaborations,
or other modifications represent, as a whole, an original work
of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or
merely link (or bind by name) to the interfaces of, the Work
and Derivative Works thereof.
"Contribution" shall mean any work of authorship, including the
original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the
copyright owner or by an individual or Legal Entity authorized
to submit on behalf of the copyright owner. For the purposes of
this definition, "submitted" means any form of electronic,
verbal, or written communication sent to the Licensor or its
representatives, including but not limited to communication on
electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of,
the Licensor for the purpose of discussing and improving the
Work, but excluding communication that is conspicuously marked
or otherwise designated in writing by the copyright owner as
"Not a Contribution."
"Contributor" shall mean Licensor and any individual or Legal
Entity on behalf of whom a Contribution has been received by
Licensor and subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and
conditions of this License, each Contributor hereby grants to
You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free, irrevocable copyright license to reproduce, prepare
Derivative Works of, publicly display, publicly perform,
```

```
sublicense, and distribute the Work and such Derivative Works
in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions
of this License, each Contributor hereby grants to You a
perpetual, worldwide, non-exclusive, no-charge, royalty-free,
irrevocable (except as stated in this section) patent license
to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to
those patent claims licensable by such Contributor that are
necessarily infringed by their Contribution(s) alone or by
combination of their Contribution(s) with the Work to which
such Contribution(s) was submitted. If You institute patent
litigation against any entity (including a cross-claim or
counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or
contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of
the Work or Derivative Works thereof in any medium, with or
without modifications, and in Source or Object form, provided
that You meet the following conditions:
    You must give any other recipients of the Work or
Derivative Works a copy of this License; and
    You must cause any modified files to carry prominent
notices stating that You changed the files; and
    You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work, excluding
those notices that do not pertain to any part of the Derivative
Works; and
    If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute
```

```
must include a readable copy of the attribution notices
contained within such NOTICE file, excluding those notices that
do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file
distributed as part of the Derivative Works; within the Source
form or documentation, if provided along with the Derivative
Works; or, within a display generated by the Derivative Works,
if and wherever such third-party notices normally appear. The
contents of the NOTICE file are for informational purposes only
and do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed as
modifying the License.
    You may add Your own copyright statement to Your
modifications and may provide additional or different license
terms and conditions for use, reproduction, or distribution of
Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the
Work otherwise complies with the conditions stated in this
License.
5. Submission of Contributions. Unless You explicitly state
otherwise, any Contribution intentionally submitted for
inclusion in the Work by You to the Licensor shall be under the
terms and conditions of this License, without any additional
terms or conditions. Notwithstanding the above, nothing herein
shall supersede or modify the terms of any separate license
agreement you may have executed with Licensor regarding such
Contributions.
6. Trademarks. This License does not grant permission to use
the trade names, trademarks, service marks, or product names of
the Licensor, except as required for reasonable and customary
```

```
use in describing the origin of the Work and reproducing the
content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or
conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or
FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible
for determining the appropriateness of using or redistributing
the Work and assume any risks associated with Your exercise of
permissions under this License.
8. Limitation of Liability. In no event and under no legal
theory, whether in tort (including negligence), contract, or
otherwise, unless required by applicable law (such as
deliberate and grossly negligent acts) or agreed to in writing,
shall any Contributor be liable to You for damages, including
any direct, indirect, special, incidental, or consequential
damages of any character arising as a result of this License or
out of the use or inability to use the Work (including but not
limited to damages for loss of goodwill, work stoppage,
computer failure or malfunction, or any and all other
commercial damages or losses), even if such Contributor has
been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While
redistributing the Work or Derivative Works thereof, You may
choose to offer, and charge a fee for, acceptance of support,
warranty, indemnity, or other liability obligations and/or
rights consistent with this License. However, in accepting such
obligations, You may act only on Your own behalf and on Your
sole responsibility, not on behalf of any other Contributor,
and only if You agree to indemnify, defend, and hold each
```

```
Contributor harmless for any liability incurred by, or claims

asserted against, such Contributor by reason of your accepting

any such warranty or additional liability.

END OF TERMS AND CONDITIONS

-----------------------------------------------------
```

Provider: SmartBear Software / Component(s): swagger-jersey2-jaxrs 1.5.4

```
See the License for the specific language 1. Include the following verbatim
 in the documentation:

Copyright 2016 SmartBear Software

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at [apache.org/licenses/LICENSE-2.0]
(http://www.apache.org/licenses/LICENSE-2.0)

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
]

2. Include the following License ONLY ONCE in the documentation even if
 there are multiple products licensed under the license.

The following applies to all products licensed under the Apache 2.0 License:

You may not use the identified files except in compliance with the Apache
 License, Version 2.0 (the "License.")

You may obtain a copy of the License at http://www.apache.org/licenses/
LICENSE-2.0.  A copy of the license is also reproduced below.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
1. Definitions.
"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.
"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.
"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.
"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
```

```
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.
"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."
"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.
2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
1. You must give any other recipients of the Work or Derivative Works a copy
 of this License; and
2. You must cause any modified files to carry prominent notices stating that
 You changed the files; and
3. You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
```

```
4. If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.
8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work
To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
```

```
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: SnakeYAML.org / Component(s): SnakeYAML 2.2

```
SnakeYAML

        Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
========================================================================

COPYRIGHT:

/**
* Copyright (c) 2008, SnakeYAML
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
 distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
* or implied. See the License for the specific language governing
 permissions and limitations under
* the License.
*/
```

Provider: Sony Corporation / Component(s): gobreaker 0.5.0

```
The MIT License (MIT)

Copyright 2015 Sony Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Splunk Inc. / Component(s): fluent-plugin-kubernetes-objects 1.1.12

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2018 Splunk Inc.
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

========================================================================
Fluentd Plugin for Kubernetes Objects:

The Fluentd Plugin for Kubernetes Objects project contains
subcomponents with separate copyright notices and license terms.
Your use of the source code for the these subcomponents is subject
to the terms and conditions of the following licenses.

=========================================================================
Apache License 2.0
=========================================================================
The following components are provided under the Apache License 2.0. See
 project link for details.

    (Apache License 2.0) fluentd (https://github.com/fluent/fluentd/blob/
master/LICENSE)

=========================================================================
MIT licenses
=========================================================================
The following components are provided under the MIT License. See project
 link for details.

    (MIT License) kubeclient (https://github.com/abonas/kubeclient/blob/
master/LICENSE.txt)
    (MIT License) bundler (https://github.com/bundler/bundler/blob/master/
LICENSE.md)
    (MIT License) rake (https://github.com/ruby/rake/blob/master/MIT-
LICENSE)
    (MIT License) webmock (https://github.com/bblimke/webmock/blob/master/
LICENSE)
    (MIT License) minitest (https://github.com/seattlerb/minitest/blob/
master/README.rdoc#license)

=========================================================================
For test-unit:
=========================================================================

See https://github.com/test-unit/test-unit/blob/master/COPYING

*****************************************************
Dependent 3rd Party

kubeclient
==================================
Copyright (c) 2014 Alissa Bonas

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
```

```
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------
http
================
MIT License

Copyright (c) 2011-2022 Tony Arcieri, Erik Michaels-Ober, Alexey V.
 Zapparov, Zachary Anker

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

addressable
========================
Copyright © Bob Aman

                             Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
```

```
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
```

```
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
--------------------------------------------------------------------------------------------------

public_suffix
==========================
Copyright (c) 2009-2020 Simone Carletti

MIT License
```

```
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

domain_name
================================
Copyright (c) 2011-2017 Akinori MUSHA

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

* lib/domain_name/punycode.rb

This file is derived from the implementation of punycode available at
here:

https://www.verisign.com/en_US/channel-resources/domain-registry-products/
idn-sdks/index.xhtml

Copyright (C) 2000-2002 Verisign Inc., All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

 1) Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
```

```
 2) Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

 3) Neither the name of the VeriSign Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

This software is licensed under the BSD open source license. For more
information visit www.opensource.org.

Authors:
 John Colosi (VeriSign)
 Srikanth Veeramachaneni (VeriSign)
 Nagesh Chigurupati (Verisign)
 Praveen Srinivasan(Verisign)

* lib/domain_name/etld_data.rb

This file is generated from the Public Suffix List
(https://publicsuffix.org/), which is licensed under MPL 2.0:

https://mozilla.org/MPL/2.0/
-------------------------------------------------------------------------------------------------

unf
===============
BSD-2-CLAUSE

Copyright (c) 2011, 2012 Akinori MUSHA

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
```

```
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
-----------------------------------------------------------------------------------------

unf_ext
==============
The MIT License

Copyright (c) 2010 Takeru Ohta
Copyright (c) 2011-2018 Akinori MUSHA  (extended Ruby support)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
-----------------------------------------------------------------------------------------

http-form_data
=========================
Copyright (c) 2015-2021 Alexey V Zapparov

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------------------------

http-parser
==========
The MIT License (MIT)

Copyright (c) 2013 CoTag Media
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

ffi-compiler
===============
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2020 FFI

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------------------------------------------------------------------

ffi
=============
BSD-3-CLAUSE

Copyright (c) 2008-2016, Ruby FFI project contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the Ruby FFI project nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
```

```
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL  BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------

rake
========

Copyright (c) Jim Weirich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

jsonpath
==================

The MIT License (MIT)

Copyright (c) 2017 Joshua Lin & Gergely Brautigam

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
--------------------------------------------------------------------------------

multi_json
=============
MIT License

Copyright (c) 2010-2013 Michael Bleigh, Josh Kalderimis, Erik Michaels-Ober,
 Pavel Pravosud

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

recursive-open-struct
=================
MIT License

Copyright (c) 2009-2018, The Recursive-open-struct developers (given in the
file AUTHORS.txt).

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------

rest-client
===========

The MIT License (MIT)

Copyright (c) 2008-2014 Rest Client Authors

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-------------------------------------------------------------------------------

http-accept
=============

Released under the MIT license.

Copyright, 2016, by Samuel G. D. Williams.
Copyright, 2016, by Matthew Kerwin.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------

http-cookie
============

Copyright (c) 2013 Akinori MUSHA
Copyright (c) 2011-2012 Akinori MUSHA, Eric Hodel
Copyright (c) 2006-2011 Aaron Patterson, Mike Dalessio

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
```

```
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

mime-types
=====================
# Licence

- Copyright 2003-2019 Austin Ziegler and contributors.

The software in this repository is made available under the MIT license.

## MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CON
-------------------------------------------------------------------------------------------

mime-types-data
=========================

## Licence

- Copyright 2003-2021 Austin Ziegler and other contributors.

The software in this repository is made available under the MIT license.

### MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
```

```
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------

netrc
==========
The MIT License (MIT)

Copyright (c) 2011-2014 Alexey Fedorov alexey.fedorov@wimdu.com
Andrew Davey as.davey@gmail.com
Avdi Grimm avdi@avdi.org
Barry Allard barry@barryallard.name
Dan Peterson dpiddy@gmail.com
Elan Ruusamäe glen@delfi.ee
Keith Rarick kr@xph.us
Nicholas E. Rabenau nerab@gmx.at
Phil Hagelberg technomancy@gmail.com
Wesley Beary geemus+github@gmail.com
Wesley Beary geemus@gmail.com
Wesley Beary wesley@heroku.com
geemus geemus@gmail.com
tiroc chaoyang.che@gmail.com

(https://github.com/geemus/netrc/blob/master/CONTRIBUTORS.md)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
```

```
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-------------------------------------------------------------------------------------------
*****************************************************************************
------------Fluentd---------------------

Fluentd (Apache 2.0)
=================

                                Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
```

```
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
```

```
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2011-2018 Fluentd Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

4th party dependencies
=======================

=================
bundler
MIT Licese

Copyright (c) Chad Fowler, Rich Kilmer, Jim Weirich and others.

Portions copyright (c) Engine Yard and Andre Arko


Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the

'Software'), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to

the following conditions:


The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.


THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY

CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
```

```
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================
msgpack

Copyright (c) 2008-2015 Sadayuki Furuhashi


                         Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
===========================

cool.io

MIT License
```

```
Copyright (c) 2007-10 Tony Arcieri

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
=============================================
http_parser.rb

MIT License

Copyright 2009,2010 Marc-André Cournoyer
Copyright 2010,2011 Aman Gupta

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
=============================================
serverengine

Copyright (C) 2012-2013 Sadayuki Furuhashi

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
==============================================
sigdump
```

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2011-2018 Fluentd Authors
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
=======================================================
strptime

BSD-2-CLAUSE

Copyright (C) 2015 NARUSE, Yui. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

ext/strptime/strptime.c:
  date_strptime.c: Coded by Tadayoshi Funaba 2011,2012
  Copyright (C) 2004-2007 Koichi Sasada
=============================================================
tzinfo

MIT License

Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==================================================
concurrent-ruby

Copyright (c) Jerry D'Antonio -- released under the MIT license.

http://www.opensource.org/licenses/mit-license.php

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
===============================================
tzinfo-data

MIT License

Copyright (c) 2005-2022 Philip Ross

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==================================================
webrick

BSD-2-CLAUSE

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
==================================================
yajl-ruby

The MIT License (MIT)

Copyright (c) 2014 Brian Lopez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
==================================================
```

Provider: SQLAlchemy authors / Component(s): SQLAlchemy 2.0.31

```
=====================Top Level License and Notice=======================

MIT License
===========

Copyright 2005-2024 SQLAlchemy authors and contributors <see AUTHORS file>.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


------------------------------------------------------------------------------
4th Party Dependencies:
=======================

greenlet - Under MIT License and PYTHON SOFTWARE FOUNDATION LICENSE VERSION
 2
==============================================================================

The following files are derived from Stackless Python and are subject to the
same license as Stackless Python:

 src/greenlet/slp_platformselect.h
 files in src/greenlet/platform/ directory

See LICENSE.PSF and http://www.stackless.com/ for details.

Unless otherwise noted, the files in greenlet have been released under the
following MIT license:

Copyright (c) Armin Rigo, Christian Tismer and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011 Python Software Foundation; All Rights Reserved" are retained in Python
alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
```

```
--------------------------------------------------------------------------------

typing-extensions - Under PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
======================================================================

A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.
```

```
B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
================================================================

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
```

```
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
```

```
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
```

```
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

================================================================================
```

Provider: Square, Inc / Component(s): OkHttp 4.10.0

Provider: Square, Inc. / Component(s): OkHttp 3.12.1

```
Copyright 2016 Square, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.
```

```
"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:
```

```
You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
```

```
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Stafford Brunk / Component(s): VS Code Ruby Extensions 0.28.1

```
vscode-ruby (MIT)
The MIT License (MIT)
Copyright (c) 2016 Peng Lv
Copyright (c) 2017-2019 Stafford Brunk
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
---------separator---------
tslib (0BSD)
Copyright (c) Microsoft Corporation.
---------separator---------
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
---------separator---------
diff-match-patch (Apache-2.0)
# Below is a list of people and organizations that have contributed
# to the Diff Match Patch project.
Google Inc.
Duncan Cross <duncan.cross@gmail.com> (Lua port)
Jan Weiß <jan@geheimwerk.de> (Objective C port)
Matthaeus G. Chajdas <anteru@developer.shelter13.net> (C# port)
Mike Slemmer <mikeslemmer@gmail.com> (C++ port)
---------separator---------
rxjs (Apache-2.0)
Copyright (c) 2015-2018 Google, Inc., Netflix, Inc., Microsoft Corp. and
 contributors
```

```
---------separator---------
diff-match-patch
rxjs
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright {yyyy} {name of copyright owner}
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
---------separator---------
isexe (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
lru-cache (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
minimatch (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
once (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
semver (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
signal-exit (ISC)
Copyright (c) 2015, Contributors
```

```
---------separator---------
which (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
wrappy (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
yallist (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
isexe
lru-cache
minimatch
once
semver
signal-exit
which
wrappy
yallist
Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.
---------separator---------
async (MIT)
Copyright (c) 2010-2018 Caolan McMahon
---------separator---------
balanced-match (MIT)
Copyright (c) 2013 Julian Gruber &lt;julian@juliangruber.com&gt;
---------separator---------
brace-expansion (MIT)
Copyright (c) 2013 Julian Gruber &lt;julian@juliangruber.com&gt;
---------separator---------
concat-map (MIT)
The above copyright notice and this permission notice shall be included in
 all
---------separator---------
cross-spawn (MIT)
Copyright (c) 2018 Made With MOXY Lda <hello@moxy.studio>
---------separator---------
default-shell (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
---------separator---------
end-of-stream (MIT)
Copyright (c) 2014 Mathias Buus
---------separator---------
is-stream (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (https://
sindresorhus.com)
---------separator---------
lodash (MIT)
```

```
Copyright OpenJS Foundation and other contributors <https://openjsf.org/>
---------separator---------
loglevel (MIT)
Copyright (c) 2013 Tim Perry
---------separator---------
merge-stream (MIT)
Copyright (c) Stephen Sugden <me@stephensugden.com> (stephensugden.com)
---------separator---------
mimic-fn (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
---------separator---------
nice-try (MIT)
Copyright (c) 2018 Tobias Reich
---------separator---------
onetime (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (https://
sindresorhus.com)
---------separator---------
path-key (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
---------separator---------
pump (MIT)
Copyright (c) 2014 Mathias Buus
---------separator---------
shebang-command (MIT)
Copyright (c) Kevin Mårtensson <kevinmartensson@gmail.com> (github.com/
kevva)
---------separator---------
shebang-regex (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
---------separator---------
strip-final-newline (MIT)
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
---------separator---------
vscode-jsonrpc (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-languageclient (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-languageserver (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-languageserver-protocol (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-languageserver-textdocument (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-languageserver-types (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-uri (MIT)
Copyright (c) Microsoft
---------separator---------
web-tree-sitter (MIT)
Copyright (c) 2018-2021 Max Brunsfeld
---------separator---------
async
balanced-match
brace-expansion
concat-map
cross-spawn
default-shell
```

```
end-of-stream
is-stream
lodash
loglevel
merge-stream
nice-try
onetime
path-key
pump
shebang-command
shebang-regex
strip-final-newline
vscode-jsonrpc
vscode-languageclient
vscode-languageserver
vscode-languageserver-protocol
vscode-languageserver-textdocument
vscode-languageserver-types
vscode-uri
web-tree-sitter
The MIT License (MIT)
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Stanislaw Pitucha / Component(s): rust-prctl 1.0.0

```
Copyright (c) 2015 Stanislaw Pitucha

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
```

```
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: Steve Francia / Component(s): cobra 0.0.4

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

4th Party Dependencies, spf13/pflag d16db1e5, License Text:
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

4th Party Dependencies, inconshreveable/mousetrap 76626ae9, License Text:
Copyright 2014 Alan Shreve

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0 (included above)

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Steve Francia / Component(s): cobra 1.5.0

```
=== Public License Template ===
github.com/spf13/cobra
-------- Copyrights
Copyright © 2013 Steve Francia <spf@spf13.com>.
Copyright 2015 Red Hat Inc. All rights reserved.
Copyright 2016 French Ben. All rights reserved.
Copyright © 2022 Steve Francia <spf@spf13.com>.

-------- License
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
```

```
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor
hereby grants to You a perpetual, worldwide, non-exclusive, no-charge,
 royalty-free, irrevocable
```

```
copyright license to reproduce, prepare Derivative Works of, publicly
 display, publicly perform,
sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor
hereby grants to You a perpetual, worldwide, non-exclusive, no-charge,
 royalty-free, irrevocable
(except as stated in this section) patent license to make, have made, use,
 offer to sell, sell,
import, and otherwise transfer the Work, where such license applies only to
 those patent claims
licensable by such Contributor that are necessarily infringed by their
 Contribution(s) alone or by
combination of their Contribution(s) with the Work to which such
 Contribution(s) was submitted. If
You institute patent litigation against any entity (including a cross-claim
 or counterclaim in a
lawsuit) alleging that the Work or a Contribution incorporated within the
 Work constitutes direct or
contributory patent infringement, then any patent licenses granted to You
 under this License for
that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof
in any medium, with or without modifications, and in Source or Object form,
 provided that You meet
the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.
```

```
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any
 Contribution
intentionally submitted for inclusion in the Work by You to the Licensor
 shall be under the terms
and conditions of this License, without any additional terms or conditions.
 Notwithstanding the
above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may
have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service
marks, or product names of the Licensor, except as required for reasonable
 and customary use in
describing the origin of the Work and reproducing the content of the NOTICE
 file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in
 writing, Licensor
provides the Work (and each Contributor provides its Contributions) on an
 "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including,
 without limitation, any
warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or
 FITNESS FOR A PARTICULAR
PURPOSE. You are solely responsible for determining the appropriateness of
 using or redistributing
the Work and assume any risks associated with Your exercise of permissions
 under this License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including
negligence), contract, or otherwise, unless required by applicable law (such
 as deliberate and
grossly negligent acts) or agreed to in writing, shall any Contributor be
 liable to You for damages,
including any direct, indirect, special, incidental, or consequential
 damages of any character
arising as a result of this License or out of the use or inability to use
 the Work (including but
not limited to damages for loss of goodwill, work stoppage, computer failure
 or malfunction, or any
and all other commercial damages or losses), even if such Contributor has
 been advised of the
possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work
 or Derivative Works
thereof, You may choose to offer, and charge a fee for, acceptance of
 support, warranty, indemnity,
or other liability obligations and/or rights consistent with this License.
 However, in accepting
such obligations, You may act only on Your own behalf and on Your sole
 responsibility, not on behalf
```

```
of any other Contributor, and only if You agree to indemnify, defend, and
 hold each Contributor
harmless for any liability incurred by, or claims asserted against, such
 Contributor by reason of
your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.



------------------------ Dependencies Grouped by License ------------
-------- Dependency
gopkg.in/yaml.v2
-------- Copyrights
Copyright (c) 2006 Kirill Simonov
Copyright 2011-2016 Canonical Ltd.
-------- Notices
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
-------- Dependencies Summary
github.com/spf13/cobra
gopkg.in/yaml.v2

-------- License used by Dependencies
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
```

```
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor
hereby grants to You a perpetual, worldwide, non-exclusive, no-charge,
 royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of, publicly
 display, publicly perform,
sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor
hereby grants to You a perpetual, worldwide, non-exclusive, no-charge,
 royalty-free, irrevocable
(except as stated in this section) patent license to make, have made, use,
 offer to sell, sell,
import, and otherwise transfer the Work, where such license applies only to
 those patent claims
licensable by such Contributor that are necessarily infringed by their
 Contribution(s) alone or by
combination of their Contribution(s) with the Work to which such
 Contribution(s) was submitted. If
You institute patent litigation against any entity (including a cross-claim
 or counterclaim in a
lawsuit) alleging that the Work or a Contribution incorporated within the
 Work constitutes direct or
contributory patent infringement, then any patent licenses granted to You
 under this License for
that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof
in any medium, with or without modifications, and in Source or Object form,
 provided that You meet
the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
```

```
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any
 Contribution
intentionally submitted for inclusion in the Work by You to the Licensor
 shall be under the terms
and conditions of this License, without any additional terms or conditions.
 Notwithstanding the
above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may
have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service
marks, or product names of the Licensor, except as required for reasonable
 and customary use in
describing the origin of the Work and reproducing the content of the NOTICE
 file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in
 writing, Licensor
provides the Work (and each Contributor provides its Contributions) on an
 "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including,
 without limitation, any
warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or
 FITNESS FOR A PARTICULAR
PURPOSE. You are solely responsible for determining the appropriateness of
 using or redistributing
the Work and assume any risks associated with Your exercise of permissions
 under this License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including
negligence), contract, or otherwise, unless required by applicable law (such
 as deliberate and
grossly negligent acts) or agreed to in writing, shall any Contributor be
 liable to You for damages,
including any direct, indirect, special, incidental, or consequential
 damages of any character
```

```
arising as a result of this License or out of the use or inability to use
 the Work (including but
not limited to damages for loss of goodwill, work stoppage, computer failure
 or malfunction, or any
and all other commercial damages or losses), even if such Contributor has
 been advised of the
possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work
 or Derivative Works
thereof, You may choose to offer, and charge a fee for, acceptance of
 support, warranty, indemnity,
or other liability obligations and/or rights consistent with this License.
 However, in accepting
such obligations, You may act only on Your own behalf and on Your sole
 responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify, defend, and
 hold each Contributor
harmless for any liability incurred by, or claims asserted against, such
 Contributor by reason of
your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.



----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/cpuguy83/go-md2man/v2
-------- Copyrights
Copyright (c) 2014 Brian Goff
```

```
-------- Dependencies Summary
github.com/cpuguy83/go-md2man/v2

-------- License used by Dependencies
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/spf13/pflag
-------- Copyrights
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.

-------- Dependencies Summary
github.com/spf13/pflag

-------- License used by Dependencies
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/russross/blackfriday/v2
-------- Copyrights
Copyright © 2011 Russ Ross
Copyright © 2011 Russ Ross <russ@russross.com>.

-------- Dependencies Summary
github.com/russross/blackfriday/v2

-------- License used by Dependencies
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=== ATTRIBUTION-HELPER-GENERATED:
=== Attribution helper version: {Major:0 Minor:11 GitVersion:0.10.0-49-
gaea1ec17-dirty
GitCommit:aea1ec17079a9618fc61c4fc4eaf6cfee2ddc083 GitTreeState:dirty
 BuildDate:2022-08-18T20:10:44Z
GoVersion:go1.18.3 Compiler:gc Platform:darwin/amd64}
=== License file based on go.mod with md5 sum:
 0279d71c49fd3aea848655a3e95d6282
```

Provider: Steve Francia / Component(s): cobra 7aeaa2cc

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

4th Party Dependencies, spf13/pflag d16db1e5, License Text:
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
```

```
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

4th Party Dependencies, inconshreveable/mousetrap 76626ae9, License Text:
Copyright 2014 Alan Shreve

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0 (included above)

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: Stuart Bishop / Component(s): pytz 2018.9

```
pytz is dual-licensed under the MIT license or the Zope Public License 2.1.
 Oracle elects the MIT license.

Copyright (c) 2003-2018 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: Stuart Knightley et. al / Component(s): JSZip 3.2.0

```
https://github.com/Stuk/jszip/blob/master/LICENSE.markdown

JSZip is dual-licensed - it may be used under the MIT license or the GPLv3
 license. This distribution elects to license and distribute under the MIT
 license.

The MIT License

Copyright (c) 2009-2016 Stuart Knightley, David Duponchel, Franz Buchinger,
 António Afonso

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
```

```
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

core-js: 2.3.0 (MIT)

Copyright (c) 2014-2016 Denis Pushkarev

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------
es6-promise: 3.0.2 (MIT)

Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------
lie: 3.1.0 (MIT)

#Copyright (c) 2014 Calvin Metcalf

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------
pako: 1.0.2 (MIT)

(The MIT License)

Copyright (C) 2014-2016 by Vitaly Puzrin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------
readable-stream: 2.0.6 (MIT)

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
```

```
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

---------------------------------------------------------------
4th party dependencies (as mentioned in https://github.com/Stuk/jszip/blob/
master/package.json)

Pako 1.0.2
https://github.com/nodeca/pako/blob/master/LICENSE

(The MIT License)

Copyright (C) 2014-2017 by Vitaly Puzrin and Andrei Tuputcyn

Permission is hereby granted, free of charge, to any person obtaining a
 copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the
 rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

-------------------------------------------------------
lie 3.3.0
https://github.com/calvinmetcalf/lie/releases/tag/v3.3.0
MIT License
#Copyright (c) 2014-2018 Calvin Metcalf, Jordan Harband

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------------------------------
readable-stream 2.3.6
https://github.com/nodejs/readable-stream/releases/tag/v2.3.6
Node.js is licensed for use as follows:

"""
Copyright Node.js contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
"""

This license applies to parts of Node.js originating from the
https://github.com/joyent/node repository:

"""
Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
"""
----------------------------------------------
set-immediate-shim 1.0.1
https://github.com/sindresorhus/set-immediate-shim/releases/tag/v1.0.1

MIT License
Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Stuart Sierra / Component(s): data.json 0.2.6

```
The documentation team must include the following in the documentation
 accompanying the Oracle product that includes the EPL code:

1.  The follow files are available in source code form under the Eclipse
 Public License at:  {INSERT WEBSITE WHERE SOURCE CODE IS AVAILABLE}.  (The
 EPL license is reproduced below).

2.  All past Contributors to org.clojure/data.json disclaim all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose.  In addition, such
 Contributors are not liable for any damages, including direct, indirect,
 special, incidental and consequential damages, such as lost profits.

3.  Any provisions of the Oracle license agreement that differ from the
 Eclipse Public License are offered by Oracle alone and not by any other
 party.

4.  {If there are modifications or additions, insert the following:} Oracle
 has modified the following files {list files}

5.  {If executables are under Oracle Agreement as opposed to EPL insert the
 following:} These files are licensed in executable form under your Oracle
 license agreement.  Oracle is solely responsible for any representations
 and warranties contained therein.

{Reproduce EPL as follows:}

Copyright (c) Stuart Sierra, 2012
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT’S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:


a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
```

```
 b) in the case of each subsequent Contributor:

i)changes to the Program, and

ii)additions to the Program;

where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor’s behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient’s responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

3. REQUIREMENTS
```

```
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:


a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.

When the Program is made available in source code form:


a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
 the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
```

warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program

```
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: Supasate Choochaisri / Component(s): connected-react-router 5.0.0

```
. connected-react-router@5.0.0
    == License Type
    . MIT
    == Copyright Notices And License
    . The MIT License (MIT)

Copyright (c) 2016-present Supasate Choochaisri

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


---------------------------- Fourth-party information ----------------------
=== ==========================================================================

    == NAME OF DEPENDENCY 1
    . immutable@3.8.2
    == License Type
    . MIT
    == Copyright Notices And License
    . MIT License

Copyright (c) 2014-present, Facebook, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------
(JavaScript)---------------------------------

    == NAME OF DEPENDENCY 2
    . seamless-immutable@7.1.4
    == License Type
    . BSD-3-Clause
    == Copyright Notices And License
    . Copyright (c) 2016, Richard Feldman
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of seamless-immutable nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: SuSe - Novell / Component(s): Motif runtime library (libXm4) 2.3.4-14

```
GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to
 share and change it. By contrast, the GNU General Public Licenses are
 intended to guarantee your freedom to share and change free software--to
 make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially
 designated software packages--typically libraries--of the Free Software
 Foundation and other authors who decide to use it. You can use it too,
 but we suggest you first think carefully about whether this license or
 the ordinary General Public License is the better strategy to use in any
 particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
 price. Our General Public Licenses are designed to make sure that you have
 the freedom to distribute copies of free software (and charge for this
 service if you wish); that you receive source code or can get it if you
 want it; that you can change the software and use pieces of it in new free
 programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid
 distributors to deny you these rights or to ask you to surrender these
 rights. These restrictions translate to certain responsibilities for you if
 you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for
 a fee, you must give the recipients all the rights that we gave you. You
 must make sure that they, too, receive or can get the source code. If you
 link other code with the library, you must provide complete object files to
 the recipients, so that they can relink them with the library after making
 changes to the library and recompiling it. And you must show them these
 terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library,
 and (2) we offer you this license, which gives you legal permission to
 copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no
 warranty for the free library. Also, if the library is modified by someone
 else and passed on, the recipients should know that what they have is not
 the original version, so that the original author's reputation will not be
 affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any
 free program. We wish to make sure that a company cannot effectively
 restrict the users of a free program by obtaining a restrictive license
 from a patent holder. Therefore, we insist that any patent license obtained
```

```
 for a version of the library must be consistent with the full freedom of
 use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary
 GNU General Public License. This license, the GNU Lesser General Public
 License, applies to certain designated libraries, and is quite different
 from the ordinary General Public License. We use this license for certain
 libraries in order to permit linking those libraries into non-free
 programs.

When a program is linked with a library, whether statically or using a
 shared library, the combination of the two is legally speaking a combined
 work, a derivative of the original library. The ordinary General Public
 License therefore permits such linking only if the entire combination fits
 its criteria of freedom. The Lesser General Public License permits more lax
 criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does
 Less to protect the user's freedom than the ordinary General Public
 License. It also provides other free software developers Less of an
 advantage over competing non-free programs. These disadvantages are the
 reason we use the ordinary General Public License for many libraries.
 However, the Lesser license provides advantages in certain special
 circumstances.

For example, on rare occasions, there may be a special need to encourage
 the widest possible use of a certain library, so that it becomes a de-
facto standard. To achieve this, non-free programs must be allowed to use
 the library. A more frequent case is that a free library does the same job
 as widely used non-free libraries. In this case, there is little to gain
 by limiting the free library to free software only, so we use the Lesser
 General Public License.

In other cases, permission to use a particular library in non-free programs
 enables a greater number of people to use a large body of free software.
 For example, permission to use the GNU C Library in non-free programs
 enables many more people to use the whole GNU operating system, as well as
 its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users'
 freedom, it does ensure that the user of a program that is linked with the
 Library has the freedom and the wherewithal to run that program using a
 modified version of the Library.

The precise terms and conditions for copying, distribution and modification
 follow. Pay close attention to the difference between a "work based on
 the library" and a "work that uses the library". The former contains code
 derived from the library, whereas the latter must be combined with the
 library in order to run.
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program
 which contains a notice placed by the copyright holder or other authorized
 party saying it may be distributed under the terms of this Lesser General
 Public License (also called "this License"). Each licensee is addressed as
 "you".

A "library" means a collection of software functions and/or data prepared so
 as to be conveniently linked with application programs (which use some of
 those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has
 been distributed under these terms. A "work based on the Library" means
 either the Library or any derivative work under copyright law: that is to
```

```
 say, a work containing the Library or a portion of it, either verbatim
 or with modifications and/or translated straightforwardly into another
 language. (Hereinafter, translation is included without limitation in the
 term "modification".)

"Source code" for a work means the preferred form of the work for making
 modifications to it. For a library, complete source code means all the
 source code for all modules it contains, plus any associated interface
 definition files, plus the scripts used to control compilation and
 installation of the library.

Activities other than copying, distribution and modification are not covered
 by this License; they are outside its scope. The act of running a program
 using the Library is not restricted, and output from such a program
 is covered only if its contents constitute a work based on the Library
 (independent of the use of the Library in a tool for writing it). Whether
 that is true depends on what the Library does and what the program that
 uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete
 source code as you receive it, in any medium, provided that you
 conspicuously and appropriately publish on each copy an appropriate
 copyright notice and disclaimer of warranty; keep intact all the notices
 that refer to this License and to the absence of any warranty; and
 distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you
 may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it,
 thus forming a work based on the Library, and copy and distribute such
 modifications or work under the terms of Section 1 above, provided that you
 also meet all of these conditions:

    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices stating
 that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no charge to
 all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a table
 of data to be supplied by an application program that uses the facility,
 other than as an argument passed when the facility is invoked, then you
 must make a good faith effort to ensure that, in the event an application
 does not supply such function or table, the facility still operates, and
 performs whatever part of its purpose remains meaningful.

    (For example, a function in a library to compute square roots has a
 purpose that is entirely well-defined independent of the application.
 Therefore, Subsection 2d requires that any application-supplied function or
 table used by this function must be optional: if the application does not
 supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable
 sections of that work are not derived from the Library, and can be
 reasonably considered independent and separate works in themselves,
 then this License, and its terms, do not apply to those sections when
 you distribute them as separate works. But when you distribute the same
 sections as part of a whole which is a work based on the Library, the
 distribution of the whole must be on the terms of this License, whose
 permissions for other licensees extend to the entire whole, and thus to
 each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
 rights to work written entirely by you; rather, the intent is to exercise
```

```
 the right to control the distribution of derivative or collective works
 based on the Library.

In addition, mere aggregation of another work not based on the Library with
 the Library (or with a work based on the Library) on a volume of a storage
 or distribution medium does not bring the other work under the scope of
 this License.

3. You may opt to apply the terms of the ordinary GNU General Public License
 instead of this License to a given copy of the Library. To do this, you
 must alter all the notices that refer to this License, so that they refer
 to the ordinary GNU General Public License, version 2, instead of to this
 License. (If a newer version than version 2 of the ordinary GNU General
 Public License has appeared, then you can specify that version instead if
 you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy,
 so the ordinary GNU General Public License applies to all subsequent copies
 and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library
 into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of
 it, under Section 2) in object code or executable form under the terms of
 Sections 1 and 2 above provided that you accompany it with the complete
 corresponding machine-readable source code, which must be distributed
 under the terms of Sections 1 and 2 above on a medium customarily used for
 software interchange.

If distribution of object code is made by offering access to copy from a
 designated place, then offering equivalent access to copy the source code
 from the same place satisfies the requirement to distribute the source
 code, even though third parties are not compelled to copy the source along
 with the object code.

5. A program that contains no derivative of any portion of the Library, but
 is designed to work with the Library by being compiled or linked with it,
 is called a "work that uses the Library". Such a work, in isolation, is not
 a derivative work of the Library, and therefore falls outside the scope of
 this License.

However, linking a "work that uses the Library" with the Library creates
 an executable that is a derivative of the Library (because it contains
 portions of the Library), rather than a "work that uses the library". The
 executable is therefore covered by this License. Section 6 states terms for
 distribution of such executables.

When a "work that uses the Library" uses material from a header file that is
 part of the Library, the object code for the work may be a derivative work
 of the Library even though the source code is not. Whether this is true is
 especially significant if the work can be linked without the Library, or
 if the work is itself a library. The threshold for this to be true is not
 precisely defined by law.

If such an object file uses only numerical parameters, data structure
 layouts and accessors, and small macros and small inline functions (ten
 lines or less in length), then the use of the object file is unrestricted,
 regardless of whether it is legally a derivative work. (Executables
 containing this object code plus portions of the Library will still fall
 under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
 the object code for the work under the terms of Section 6. Any executables
```

```
 containing that work also fall under Section 6, whether or not they are
 linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link
 a "work that uses the Library" with the Library to produce a work
 containing portions of the Library, and distribute that work under terms
 of your choice, provided that the terms permit modification of the work
 for the customer's own use and reverse engineering for debugging such
 modifications.

You must give prominent notice with each copy of the work that the Library
 is used in it and that the Library and its use are covered by this License.
 You must supply a copy of this License. If the work during execution
 displays copyright notices, you must include the copyright notice for the
 Library among them, as well as a reference directing the user to the copy
 of this License. Also, you must do one of these things:

    a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever changes were used in the
 work (which must be distributed under Sections 1 and 2 above); and, if the
 work is an executable linked with the Library, with the complete machine-
readable "work that uses the Library", as object code and/or source code, so
 that the user can modify the Library and then relink to produce a modified
 executable containing the modified Library. (It is understood that the
 user who changes the contents of definitions files in the Library will
 not necessarily be able to recompile the application to use the modified
 definitions.)
    b) Use a suitable shared library mechanism for linking with the Library.
 A suitable mechanism is one that (1) uses at run time a copy of the
 library already present on the user's computer system, rather than copying
 library functions into the executable, and (2) will operate properly with
 a modified version of the library, if the user installs one, as long as the
 modified version is interface-compatible with the version that the work was
 made with.
    c) Accompany the work with a written offer, valid for at least three
 years, to give the same user the materials specified in Subsection 6a,
 above, for a charge no more than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy from
 a designated place, offer equivalent access to copy the above specified
 materials from the same place.
    e) Verify that the user has already received a copy of these materials
 or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library"
 must include any data and utility programs needed for reproducing the
 executable from it. However, as a special exception, the materials to be
 distributed need not include anything that is normally distributed (in
 either source or binary form) with the major components (compiler, kernel,
 and so on) of the operating system on which the executable runs, unless
 that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of
 other proprietary libraries that do not normally accompany the operating
 system. Such a contradiction means you cannot use both them and the Library
 together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library
 side-by-side in a single library together with other library facilities not
 covered by this License, and distribute such a combined library, provided
 that the separate distribution of the work based on the Library and of the
 other library facilities is otherwise permitted, and provided that you do
 these two things:
```

```
    a) Accompany the combined library with a copy of the same work based
 on the Library, uncombined with any other library facilities. This must be
 distributed under the terms of the Sections above.
    b) Give prominent notice with the combined library of the fact that
 part of it is a work based on the Library, and explaining where to find the
 accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the
 Library except as expressly provided under this License. Any attempt
 otherwise to copy, modify, sublicense, link with, or distribute the Library
 is void, and will automatically terminate your rights under this License.
 However, parties who have received copies, or rights, from you under this
 License will not have their licenses terminated so long as such parties
 remain in full compliance.

9. You are not required to accept this License, since you have not signed
 it. However, nothing else grants you permission to modify or distribute
 the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by modifying or distributing the
 Library (or any work based on the Library), you indicate your acceptance
 of this License to do so, and all its terms and conditions for copying,
 distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
 Library), the recipient automatically receives a license from the original
 licensor to copy, distribute, link with or modify the Library subject to
 these terms and conditions. You may not impose any further restrictions
 on the recipients' exercise of the rights granted herein. You are not
 responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent
 infringement or for any other reason (not limited to patent issues),
 conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License. If you cannot distribute
 so as to satisfy simultaneously your obligations under this License and any
 other pertinent obligations, then as a consequence you may not distribute
 the Library at all. For example, if a patent license would not permit
 royalty-free redistribution of the Library by all those who receive copies
 directly or indirectly through you, then the only way you could satisfy
 both it and this License would be to refrain entirely from distribution of
 the Library.

If any portion of this section is held invalid or unenforceable under any
 particular circumstance, the balance of the section is intended to apply,
 and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or other property right claims or to contest validity of any such claims;
 this section has the sole purpose of protecting the integrity of the
 free software distribution system which is implemented by public license
 practices. Many people have made generous contributions to the wide range
 of software distributed through that system in reliance on consistent
 application of that system; it is up to the author/donor to decide if he
 or she is willing to distribute software through any other system and a
 licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a
 consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain
 countries either by patents or by copyrighted interfaces, the original
 copyright holder who places the Library under this License may add an
 explicit geographical distribution limitation excluding those countries,
```

```
 so that distribution is permitted only in or among countries not thus
 excluded. In such case, this License incorporates the limitation as if
 written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of
 the Lesser General Public License from time to time. Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

Each version is given a distinguishing version number. If the Library
 specifies a version number of this License which applies to it and "any
 later version", you have the option of following the terms and conditions
 either of that version or of any later version published by the Free
 Software Foundation. If the Library does not specify a license version
 number, you may choose any version ever published by the Free Software
 Foundation.

14. If you wish to incorporate parts of the Library into other free programs
 whose distribution conditions are incompatible with these, write to the
 author to ask for permission. For software which is copyrighted by the Free
 Software Foundation, write to the Free Software Foundation; we sometimes
 make exceptions for this. Our decision will be guided by the two goals of
 preserving the free status of all derivatives of our free software and of
 promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
 FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
 OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
 PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
 OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO
 THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY
 PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR
 CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
 REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
 OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED
 TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
 YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER
 SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible
 use to the public, we recommend making it free software that everyone can
 redistribute and change. You can do so by permitting redistribution under
 these terms (or, alternatively, under the terms of the ordinary General
 Public License).

To apply these terms, attach the following notices to the library. It is
 safest to attach them to the start of each source file to most effectively
 convey the exclusion of warranty; and each file should have at least the
 "copyright" line and a pointer to where the full notice is found.

one line to give the library's name and an idea of what it does.
Copyright (C) year  name of author

This library is free software; you can redistribute it and/or
```

```
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301
 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
 school, if any, to sign a "copyright disclaimer" for the library, if
 necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in
the library `Frob' (a library for tweaking knobs) written
by James Random Hacker.

signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

====

In files:
/etc/X11/mwm/system.mwmrc
/usr/include/X11/bitmaps/xm_error
/usr/include/X11/bitmaps/xm_hour16
/usr/include/X11/bitmaps/xm_hour16m
/usr/include/X11/bitmaps/xm_hour32
/usr/include/X11/bitmaps/xm_hour32m
/usr/include/X11/bitmaps/xm_information
/usr/include/X11/bitmaps/xm_noenter16
/usr/include/X11/bitmaps/xm_noenter16m
/usr/include/X11/bitmaps/xm_noenter32
/usr/include/X11/bitmaps/xm_noenter32m
/usr/include/X11/bitmaps/xm_question
/usr/include/X11/bitmaps/xm_warning
/usr/include/X11/bitmaps/xm_working
/usr/share/X11/bindings/acorn
/usr/share/X11/bindings/apollo
/usr/share/X11/bindings/dec
/usr/share/X11/bindings/dg_AViiON
/usr/share/X11/bindings/doubleclick
/usr/share/X11/bindings/hal
/usr/share/X11/bindings/hitachi
/usr/share/X11/bindings/hp
/usr/share/X11/bindings/ibm
/usr/share/X11/bindings/intergraph
/usr/share/X11/bindings/intergraph17
/usr/share/X11/bindings/megatek
/usr/share/X11/bindings/motorola
/usr/share/X11/bindings/ncr_at
/usr/share/X11/bindings/ncr_vt
/usr/share/X11/bindings/pc
/usr/share/X11/bindings/sgi
/usr/share/X11/bindings/siemens_9733
```

```
/usr/share/X11/bindings/siemens_wx200
/usr/share/X11/bindings/sni
/usr/share/X11/bindings/sni_97801
/usr/share/X11/bindings/sony
/usr/share/X11/bindings/tek
/usr/share/X11/bindings/xmbind.alias

Copyright (c) 1987-2012, The Open Group. All rights reserved.

These libraries and programs are free software; you can
redistribute them and/or modify them under the terms of the GNU
Lesser General Public License as published by the Free Software
Foundation; either version 2 of the License, or (at your option)
any later version.

These libraries and programs are distributed in the hope that
they will be useful, but WITHOUT ANY WARRANTY; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE. See the GNU Lesser General Public License for more
details.

You should have received a copy of the GNU Lesser General Public
License along with these librararies and programs; if not, write
to the Free Software Foundation, Inc., 51 Franklin Street, Fifth
Floor, Boston, MA 02110-1301 USA
```

T to Y

Provider: Taku Kudo / Component(s): sentencepiece 0.2.0

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
```

```
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
```

```
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
```

Provider: Tanguy Krotoff / Component(s): DefinitelyTyped enzyme-adapter-react-16 type definitions 1.0.5

```
@types/enzyme-adapter-react-16 1.0.5

COPYRIGHT and LICENSE:

// Type definitions for enzyme-adapter-react-16 1.0
// Project: https://github.com/airbnb/enzyme, http://airbnb.io/enzyme
// Definitions by: Tanguy Krotoff <https://github.com/tkrotoff>
// Definitions: https://github.com/DefinitelyTyped/DefinitelyTyped
// TypeScript Version: 3.1


This project is licensed under the MIT license.
Copyrights are respective of each contributor listed at the beginning of
 each definition file.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Tanuki Software / Component(s): Java Service Wrapper 3.5.41

```
> The Tanuki TLA is based on the Oracle standard TLA form with the following
 deviations resulting from negotiations:
>
```

```
> -          The license to Tanuki Java Service Wrapper (the technology
 that is subject of the Agreement) is perpetual with respect to all Oracle
 product versions into which it was incorporated prior to termination and
 for support thereof.  This is significantly better than our standard term
 of 10 years post termination rights.
>
> -          Tanuki is responsible for providing updates and upgrades
 only so long as Oracle continues to pay the yearly Support Fee, which is
 distinct from the one-time licensing fee.   The Support Fee may fluctuate
 in accordance with the exchange rate between the JPY and USD up to 5%.
>
> -          In order to retain California choice of law and San Francisco
 or Santa Clara county courts as the venues, Oracle agreed to pay Tanuki a
 $5,000 fee in the event that Oracle initiated litigation against Tanuki in
 the United States.
```

Provider: Tatsuhiro Tsujikawa / Component(s): Argparse4j 0.8.1

```
 * Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.
```

Provider: Tatsuhiro Tsujikawa / Component(s): Argparse4j 0.9.0

```
/*
 * Copyright (C) 2011-2021 The contributors: https://github.com/argparse4j/
argparse4j/graphs/contributors
 *
 * Permission is hereby granted, free of charge, to any person
 * obtaining a copy of this software and associated documentation
 * files (the "Software"), to deal in the Software without
 * restriction, including without limitation the rights to use, copy,
 * modify, merge, publish, distribute, sublicense, and/or sell copies
 * of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be
 * included in all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 * MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
```

```
 * BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 * ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */
```

Provider: Tatu Saloranta / Component(s): Jackson Databind 2.17.0

```
------------------------------- Top-level license -------------------------
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

---------------------------- Fourth-party information ----------------------
== NAME OF DEPENDENCY 1
com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-core

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
```

```
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

## FastDoubleParser

jackson-core bundles a shaded copy of FastDoubleParser <https://github.com/
wrandelshofer/FastDoubleParser>.
That code is available under an MIT license <https://github.com/
wrandelshofer/FastDoubleParser/blob/main/LICENSE>
under the following copyright.

Copyright © 2023 Werner Randelshofer, Switzerland. MIT License.

See FastDoubleParser-NOTICE for details of other source code included in
 FastDoubleParser
and the licenses and copyrights that apply to that code.

---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
net.bytebuddy:byte-buddy

== License
Apache 2.0 (Same as Top-level license)

== Copyright Notices
ASM: a very small and fast Java bytecode manipulation framework
Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
```

```
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Tatu Saloranta / Component(s): jackson-datatype-collections 2.9.9

```
Jackson Datatype Collections 2.9.9

COPYRIGHT:
Copyright 2007 Tatu Saloranta
Copyright 2012 FasterXML.com

LICENSE: Apache 2.0
                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



================================
Modules:

jackson datatype guava
jackson datatype hppc
jackson datatype pcollections
jackson datatype eclipse-collections

================================
4P Dependencies:


com.google.guava 18.0 (upgrade to 27.1)
COPYRIGHT: Copyright (C) 2008 The Guava Authors
LICENSE: Apache 2.0 https://github.com/google/guava/blob/v26.0/COPYING



---
com.fasterxml.jackson.core jackson-core 2.9.9
com.fasterxml.jackson.core jackson-databind 2.9.9
com.fasterxml.jackson.core jackson-annotations 2.9.9

COPYRIGHT:
Copyright 2007 Tatu Saloranta
Copyright 2012 FasterXML.com

LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0



---
org.eclipse.collections eclipse-collections 9.1.0
COPYRIGHT:
LICENSE: EDL v1.0 + EPL v1.0
This distribution elects to license under the EDL 1.0
Eclipse Distribution License - v 1.0

Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
```

```
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



---
com.carrotsearch hppc 0.7.3
COPYRIGHT: Copyright (c) 2013 Terence Parr, Sam Harwell
LICENSE: Apache 2.0
                           Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
            documentation, if provided along with the Derivative Works; or,
            within a display generated by the Derivative Works, if and
            wherever such third-party notices normally appear. The contents
            of the NOTICE file are for informational purposes only and
            do not modify the License. You may add Your own attribution
            notices within Derivative Works that You distribute, alongside
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
---
org.pcollections 2.1.2
COPYRIGHT and LICENSE:
Copyright (c) 2008 Harold Cooper

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Tatu Saloranta / Component(s): Java Uuid Generator 3.1.5

```
Java UUID Generator » 3.1.5
COPYRIGHT: Copyright (c) 2002- Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
```

```
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
```

```
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: Tatu Saloranta / Component(s): Woodstox XML Processor 6.5.1

```
/* Woodstox XML processor
 *
 * Copyright (c) 2004 Tatu Saloranta, tatu.saloranta@iki.fi
 *
 * Licensed under the License specified in file LICENSE, included with
 * the source code.
 * You may not use this file except in compliance with the License.
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

   Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
```

```
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

 --------------------------------------------
4P Dependency: org.codehaus.woodstox:stax2-api:jar

Copyright (c) 2004-2010, Woodstox Project (http://woodstox.codehaus.org/)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
3. Neither the name of the Woodstox XML Processor nor the names
   of its contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

Provider: Taylor G Smith / Component(s): pmdarima 2.0.4

```
pmdarima:
```

```
MIT License

Copyright (c) 2017 Taylor G Smith

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-----
cython:
Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
```

```
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

from https://github.com/cython/cython/
blob/1f087a63463ffca38d174c5fad349606cdad2a1e/appveyor/install.ps1:
Authors: Olivier Grisel and Kyle Kastner
License: CC0 1.0 Universal: https://creativecommons.org/publicdomain/
zero/1.0/

from https://github.com/cython/cython/blob/
bf6362634eecec89f8907e79d7bc68bed0267838/Cython/Build/IpythonMagic.py:
Copyright (C) 2010-2011, IPython Development Team.
Distributed under the terms of the Modified BSD License.
The full license is in the file ipython-COPYING.rst, distributed with this
 software.
IPython is licensed under the terms of the Modified BSD License (also known
 as New or Revised or 3-Clause BSD), as follows:

    Copyright (c) 2008-2014, IPython Development Team
    Copyright (c) 2001-2007, Fernando Perez <fernando.perez@colorado.edu>
    Copyright (c) 2001, Janko Hauser <jhauser@zscout.de>
    Copyright (c) 2001, Nathaniel Gray <n8gray@caltech.edu>

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the IPython Development Team nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


-----
```

```
joblib:
BSD 3-Clause License

Copyright (c) 2008-2021, The joblib developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-----
numpy:
numpy:
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: extra-dll\libopenb*.dll
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow
```

```
  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
```

```
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------
tempita

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
```

```
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------
dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

-----------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.

-----------------------------------------------------------------------------
LICENSES_bundled in different directories:
-----------------------------------------------------------------------------
```

```
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------------------
```

```
Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64
```

```
The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

```
Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

--------------------------------------------------------------------------------------------------------------
```

```
Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

-----
pandas:
BSD 3-Clause License

Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2023, Open source contributors.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
```

```
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

DATEUTIL_LICENSE (https://github.com/pandas-dev/pandas/blob/main/LICENSES/
DATEUTIL_LICENSE):
Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
```

```
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.

HAVEN_LICENSE (https://github.com/pandas-dev/pandas/blob/main/LICENSES/
HAVEN_LICENSE):
# MIT License

Copyright (c) 2019 Hadley Wickham; RStudio; and Evan Miller

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

HAVEN_MIT (https://github.com/pandas-dev/pandas/blob/main/LICENSES/
HAVEN_MIT):
Based on http://opensource.org/licenses/MIT

This is a template. Complete and ship as file LICENSE the following 2
lines (only)

YEAR:
COPYRIGHT HOLDER:

and specify as

License: MIT + file LICENSE

Copyright (c) <YEAR>, <COPYRIGHT HOLDER>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
```

```
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

KLIB (https://github.com/pandas-dev/pandas/blob/main/LICENSES/KLIB_LICENSE):
The MIT License

Copyright (c) 2008-     Attractive Chaos <attractor@live.co.uk>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

MUSL (https://github.com/pandas-dev/pandas/blob/main/LICENSES/MUSL_LICENSE):
musl as a whole is licensed under the following standard MIT license:

----------------------------------------------------------------------
Copyright © 2005-2014 Rich Felker, et al.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
----------------------------------------------------------------------

Authors/contributors include:

Anthony G. Basile
Arvid Picciani
Bobby Bingham
Boris Brezillon
Brent Cook
Chris Spiegel
Clément Vasseur
```

```
Emil Renner Berthing
Hiltjo Posthuma
Isaac Dunham
Jens Gustedt
Jeremy Huntwork
John Spencer
Justin Cormack
Luca Barbato
Luka Perkov
M Farkas-Dyck (Strake)
Michael Forney
Nicholas J. Kain
orc
Pascal Cuoq
Pierre Carrier
Rich Felker
Richard Pennington
sin
Solar Designer
Stefan Kristiansson
Szabolcs Nagy
Timo Teräs
Valentin Ochs
William Haddon

Portions of this software are derived from third-party works licensed
under terms compatible with the above MIT license:

The TRE regular expression implementation (src/regex/reg* and
src/regex/tre*) is Copyright © 2001-2008 Ville Laurikari and licensed
under a 2-clause BSD license (license text in the source files). The
included version has been heavily modified by Rich Felker in 2012, in
the interests of size, simplicity, and namespace cleanliness.

Much of the math library code (src/math/* and src/complex/*) is
Copyright © 1993,2004 Sun Microsystems or
Copyright © 2003-2011 David Schultz or
Copyright © 2003-2009 Steven G. Kargl or
Copyright © 2003-2009 Bruce D. Evans or
Copyright © 2008 Stephen L. Moshier
and labelled as such in comments in the individual source files. All
have been licensed under extremely permissive terms.

The ARM memcpy code (src/string/armel/memcpy.s) is Copyright © 2008
The Android Open Source Project and is licensed under a two-clause BSD
license. It was taken from Bionic libc, used on Android.

The implementation of DES for crypt (src/misc/crypt_des.c) is
Copyright © 1994 David Burren. It is licensed under a BSD license.

The implementation of blowfish crypt (src/misc/crypt_blowfish.c) was
originally written by Solar Designer and placed into the public
domain. The code also comes with a fallback permissive license for use
in jurisdictions that may not recognize the public domain.

The smoothsort implementation (src/stdlib/qsort.c) is Copyright © 2011
Valentin Ochs and is licensed under an MIT-style license.

The BSD PRNG implementation (src/prng/random.c) and XSI search API
(src/search/*.c) functions are Copyright © 2011 Szabolcs Nagy and
licensed under following terms: "Permission to use, copy, modify,
and/or distribute this code for any purpose with or without fee is
hereby granted. There is no warranty."
```

```
The x86_64 port was written by Nicholas J. Kain. Several files (crt)
were released into the public domain; others are licensed under the
standard MIT license terms at the top of this file. See individual
files for their copyright status.

The mips and microblaze ports were originally written by Richard
Pennington for use in the ellcc project. The original code was adapted
by Rich Felker for build system and code conventions during upstream
integration. It is licensed under the standard MIT terms.

The powerpc port was also originally written by Richard Pennington,
and later supplemented and integrated by John Spencer. It is licensed
under the standard MIT terms.

All other files which have no copyright comments are original works
produced specifically for use as part of this library, written either
by Rich Felker, the main author of the library, or by one or more
contibutors listed above. Details on authorship of individual files
can be found in the git version control history of the project. The
omission of copyright and license comments in each file is in the
interest of source tree size.

All public header files (include/* and arch/*/bits/*) should be
treated as Public Domain as they intentionally contain no content
which can be covered by copyright. Some source modules may fall in
this category as well. If you believe that a file is so trivial that
it should be in the Public Domain, please contact the authors and
request an explicit statement releasing it from copyright.

The following files are trivial, believed not to be copyrightable in
the first place, and hereby explicitly released to the Public Domain:

All public headers: include/*, arch/*/bits/*
Startup files: crt/*

NUMPY (https://github.com/pandas-dev/pandas/blob/main/LICENSES/
NUMPY_LICENSE):
Copyright (c) 2005-2011, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

BOTTLENECK (https://github.com/pandas-dev/pandas/blob/main/LICENSES/OTHER):
Bottleneck license
------------------

Copyright (c) 2010-2012 Archipel Asset Management AB.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Pyperclip v1.3 license
----------------------

Copyright (c) 2010, Albert Sweigart
All rights reserved.

BSD-style license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the pyperclip nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY Albert Sweigart "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL Albert Sweigart BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
PACKAGING (https://github.com/pandas-dev/pandas/blob/main/LICENSES/
PACKAGING_LICENSE):

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.
```

```
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

PSF (https://github.com/pandas-dev/pandas/blob/main/LICENSES/PSF_LICENSE):
A. HISTORY OF THE SOFTWARE
--------------------------

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property.  Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.2             2.1.1       2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2.1           2.2         2002        PSF         yes
    2.2.2           2.2.1       2002        PSF         yes
```

```
    2.2.3           2.2.2       2003        PSF         yes
    2.3             2.2.2       2002-2003   PSF         yes
    2.3.1           2.3         2002-2003   PSF         yes
    2.3.2           2.3.1       2002-2003   PSF         yes
    2.3.3           2.3.2       2002-2003   PSF         yes
    2.3.4           2.3.3       2004        PSF         yes
    2.3.5           2.3.4       2005        PSF         yes
    2.4             2.3         2004        PSF         yes
    2.4.1           2.4         2005        PSF         yes
    2.4.2           2.4.1       2005        PSF         yes
    2.4.3           2.4.2       2006        PSF         yes
    2.4.4           2.4.3       2006        PSF         yes
    2.5             2.4         2006        PSF         yes
    2.5.1           2.5         2007        PSF         yes
    2.5.2           2.5.1       2008        PSF         yes
    2.5.3           2.5.2       2008        PSF         yes
    2.6             2.5         2008        PSF         yes
    2.6.1           2.6         2008        PSF         yes
    2.6.2           2.6.1       2009        PSF         yes
    2.6.3           2.6.2       2009        PSF         yes
    2.6.4           2.6.3       2009        PSF         yes
    2.6.5           2.6.4       2010        PSF         yes
    2.7             2.6         2010        PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
---------------------------------------------------------------

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010
Python Software Foundation; All Rights Reserved" are retained in Python
 alone or
in any derivative version prepared by Licensee.
```

```
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
```

```
5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the Internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the Internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
```

```
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

PYUPGRADE (https://github.com/pandas-dev/pandas/blob/main/LICENSES/
PYUPGRADE_LICENSE):
Copyright (c) 2017 Anthony Sottile

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

SAS7BDAT (https://github.com/pandas-dev/pandas/blob/main/LICENSES/
SAS7BDAT_LICENSE):
Copyright (c) 2015 Jared Hobbs

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

SCIPY (https://github.com/pandas-dev/pandas/blob/main/LICENSES/
SCIPY_LICENSE):
Copyright (c) 2001, 2002 Enthought, Inc.
All rights reserved.

Copyright (c) 2003-2012 SciPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Enthought nor the names of the SciPy Developers
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
```

```
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

ULTRAJSON (https://github.com/pandas-dev/pandas/blob/main/LICENSES/
ULTRAJSON_LICENSE):
Copyright (c) 2011-2013, ESN Social Software AB and Jonas Tarnstrom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the ESN Social Software AB nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL ESN SOCIAL SOFTWARE AB OR JONAS TARNSTROM BE
 LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)
https://github.com/client9/stringencoders
Copyright (c) 2007  Nick Galbreath -- nickg [at] modp [dot] com. All rights
 reserved.

Numeric decoder derived from TCL library
http://www.opensource.apple.com/source/tcl/tcl-14/tcl/license.terms
 * Copyright (c) 1988-1993 The Regents of the University of California.
 * Copyright (c) 1994 Sun Microsystems, Inc.

XARRAY (https://github.com/pandas-dev/pandas/blob/main/LICENSES/
XARRAY_LICENSE):
Copyright 2014-2019, xarray Developers

--------------------------------------------------------------------------------

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
```

```
"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
```

```
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
```

```
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
```

```
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


-----
scikit-learn:
BSD 3-Clause License

Copyright (c) 2007-2023 The scikit-learn developers.
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-----
scipy:
Copyright (c) 2001-2002 Enthought, Inc. 2003-2022, SciPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Bundled Licenses for scipy:
```

```
----

The SciPy repository and source distributions bundle a number of libraries
 that
are compatibly licensed.  We list these here.


Name: Decorator
Files: scipy/_lib/decorator.py
License: 2-clause BSD
  For details, see the header inside scipy/_lib/decorator.py

Name: ID
Files: scipy/linalg/src/id_dist/*
License: 3-clause BSD
  For details, see scipy/linalg/src/id_dist/doc/doc.tex

Name: L-BFGS-B
Files: scipy/optimize/lbfgsb/*
License: BSD license
  For details, see scipy/optimize/lbfgsb/README

Name: LAPJVsp
Files: scipy/sparse/csgraph/_matching.pyx
License: 3-clause BSD
Copyright 1987-, A. Volgenant/Amsterdam School of Economics,
                 University of Amsterdam

  Distributed under 3-clause BSD license with permission from
  University of Amsterdam.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

  3. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
    without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
  POSSIBILITY OF SUCH DAMAGE.


Name: SuperLU
```

```
Files: scipy/sparse/linalg/dsolve/SuperLU/*
License: 3-clause BSD
  For details, see scipy/sparse/linalg/dsolve/SuperLU/License.txt

Name: ARPACK
Files: scipy/sparse/linalg/eigen/arpack/ARPACK/*
License: 3-clause BSD
  For details, see scipy/sparse/linalg/eigen/arpack/ARPACK/COPYING

Name: Qhull
Files: scipy/spatial/qhull/*
License: Qhull license (BSD-like)
  For details, see scipy/spatial/qhull/COPYING.txt

Name: Cephes
Files: scipy/special/cephes/*
License: 3-clause BSD
  Distributed under 3-clause BSD license with permission from the author,
  see https://lists.debian.org/debian-legal/2004/12/msg00295.html

  Cephes Math Library Release 2.8:  June, 2000
  Copyright 1984, 1995, 2000 by Stephen L. Moshier

  This software is derived from the Cephes Math Library and is
  incorporated herein by permission of the author.

  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:
      * Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.
      * Neither the name of the <organization> nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
  WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
  DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
  DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
  (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
  LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
  ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
  SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: Faddeeva
Files: scipy/special/Faddeeva.*
License: MIT
  Copyright (c) 2012 Massachusetts Institute of Technology

  Permission is hereby granted, free of charge, to any person obtaining
  a copy of this software and associated documentation files (the
```

```
  "Software"), to deal in the Software without restriction, including
  without limitation the rights to use, copy, modify, merge, publish,
  distribute, sublicense, and/or sell copies of the Software, and to
  permit persons to whom the Software is furnished to do so, subject to
  the following conditions:

  The above copyright notice and this permission notice shall be
  included in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: qd
Files: scipy/special/cephes/dd_*.[ch]
License: modified BSD license ("BSD-LBNL-License.doc")
  This work was supported by the Director, Office of Science, Division
  of Mathematical, Information, and Computational Sciences of the
  U.S. Department of Energy under contract numbers DE-AC03-76SF00098 and
  DE-AC02-05CH11231.

  Copyright (c) 2003-2009, The Regents of the University of California,
  through Lawrence Berkeley National Laboratory (subject to receipt of
  any required approvals from U.S. Dept. of Energy) All rights reserved.

  1. Redistribution and use in source and binary forms, with or
  without modification, are permitted provided that the following
  conditions are met:

  (1) Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.

  (2) Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

  (3) Neither the name of the University of California, Lawrence
  Berkeley National Laboratory, U.S. Dept. of Energy nor the names
  of its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

  2. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  3. You are under no obligation whatsoever to provide any bug fixes,
  patches, or upgrades to the features, functionality or performance of
  the source code ("Enhancements") to anyone; however, if you choose to
  make your Enhancements available either publicly, or directly to
  Lawrence Berkeley National Laboratory, without imposing a separate
```

```
  written license agreement for such Enhancements, then you hereby grant
  the following license: a non-exclusive, royalty-free perpetual license
  to install, use, modify, prepare derivative works, incorporate into
  other computer software, distribute, and sublicense such enhancements
  or derivative works thereof, in binary and source code form.

Name: pypocketfft
Files: scipy/fft/_pocketfft/[pocketfft.h, pypocketfft.cxx]
License: 3-Clause BSD
  For details, see scipy/fft/_pocketfft/LICENSE.md

Name: uarray
Files: scipy/_lib/uarray/*
License: 3-Clause BSD
  For details, see scipy/_lib/uarray/LICENSE

Name: ampgo
Files: benchmarks/benchmarks/go_benchmark_functions/*.py
License: MIT
  Functions for testing global optimizers, forked from the AMPGO project,
  https://code.google.com/archive/p/ampgo

Name: pybind11
Files: no source files are included, however pybind11 binary artifacts are
  included with every binary build of SciPy.
License:
  Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights
 reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

  1. Redistributions of source code must retain the above copyright notice,
 this
     list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
 notice,
     this list of conditions and the following disclaimer in the
 documentation
     and/or other materials provided with the distribution.

  3. Neither the name of the copyright holder nor the names of its
 contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
  WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE
  FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
Name: HiGHS
Files: scipy/optimize/_highs/*
License: MIT
  For details, see scipy/optimize/_highs/LICENCE

Name: Boost
Files: scipy/_lib/boost/*
License: Boost Software License - Version 1.0
  For details, see scipy/_lib/boost/LICENSE_1_0.txt

Name: Biasedurn
Files: scipy/stats/biasedurn/*
License 3-Clause BSD
  For details, see scipy/stats/biasedurn/license.txt

Name: UNU.RAN
Files: scipy/_lib/unuran/*
License 3-Clause BSD
  For details, see scipy/_lib/unuran/license.txt

Name: NumPy
Files: scipy/stats/_rcont/[logfactorial.h,logfactorial.c]
License 3-Clause BSD
  For details, see header inside scipy/stats/_rcont/logfactorial.h
  and scipy/stats/_rcont/logfactorial.c


--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------------------

Name: Decorator

##########################     LICENSE     ############################## #

Copyright (c) 2005-2015, Michele Simionato
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
  Redistributions in bytecode form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------------------
```

```
Name: ID

Copyright (c) 2014 by P.-G. Martinsson, V. Rokhlin,
Y. Shkolnisky, and M. Tygert.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  Redistributions of source code must retain the above copyright
  notice, this list of conditions, and the following disclaimer.
  Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions, and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
  None of the names of the copyright holders may be used to endorse
  or promote products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNERS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------

Name: L-BFGS-B

This is a Python wrapper (using F2PY) written by David M. Cooke
<cookedm@physics.mcmaster.ca> and released as version 0.9 on April 9, 2004.
The wrapper was slightly modified by Joonas Paalasmaa for the 3.0 version
in March 2012.

License of L-BFGS-B (Fortran code)
----------------------------------

The version included here (in lbfgsb.f) is 3.0 (released April 25, 2011). It
 was
written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal <nocedal@ece.nwu.edu>.
 It
carries the following condition for use:

  """
  This software is freely available, but we expect that all publications
  describing work using this software, or all commercial products using it,
  quote at least one of the references given below. This software is
 released
  under the BSD License.

  References
    * R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound
      Constrained Optimization, (1995), SIAM Journal on Scientific and
      Statistical Computing, 16, 5, pp. 1190-1208.
    * C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B,
      FORTRAN routines for large scale bound constrained optimization
 (1997),
      ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.
```

```
    * J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-
BFGS-B,
      FORTRAN routines for large scale bound constrained optimization
 (2011),
      ACM Transactions on Mathematical Software, 38, 1.
  """

The Python wrapper
------------------

This code uses F2PY (http://cens.ioc.ee/projects/f2py2e/) to generate
the wrapper around the Fortran code.

The Python code and wrapper are copyrighted 2004 by David M. Cooke
<cookedm@physics.mcmaster.ca>.


License for the Python wrapper
------------------------------

Copyright (c) 2004 David M. Cooke <cookedm@physics.mcmaster.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


--------------------------------------------------------------------------------

Name: SuperLU

Copyright (c) 2003, The Regents of the University of California, through
Lawrence Berkeley National Laboratory (subject to receipt of any required
approvals from U.S. Dept. of Energy)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

(1) Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
```

```
(2) Redistributions in binary form must reproduce the above copyright
 notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
(3) Neither the name of Lawrence Berkeley National Laboratory, U.S. Dept. of
Energy nor the names of its contributors may be used to endorse or promote
products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------

Name: ARPACK

BSD Software License

Pertains to ARPACK and P_ARPACK

Copyright (c) 1996-2008 Rice University.
Developed by D.C. Sorensen, R.B. Lehoucq, C. Yang, and K. Maschhoff.
All rights reserved.

Arpack has been renamed to arpack-ng.

Copyright (c) 2001-2011 - Scilab Enterprises
Updated by Allan Cornet, Sylvestre Ledru.

Copyright (c) 2010 - Jordi Gutiérrez Hermoso (Octave patch)

Copyright (c) 2007 - Sébastien Fabbro (gentoo patch)

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
```

```
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------------------------

Name: Qhull

                    Qhull, Copyright (c) 1993-2019

                            C.B. Barber
                           Arlington, MA

                               and

       The National Science and Technology Research Center for
        Computation and Visualization of Geometric Structures
                        (The Geometry Center)
                      University of Minnesota

                      email: qhull@qhull.org

This software includes Qhull from C.B. Barber and The Geometry Center.
Qhull is copyrighted as noted above.  Qhull is free software and may
be obtained via http from www.qhull.org.  It may be freely copied,
 modified,
and redistributed under the following conditions:

1. All copyright notices must remain intact in all files.

2. A copy of this text file must be distributed along with any copies
   of Qhull that you redistribute; this includes copies that you have
   modified, or copies of programs or other software products that
   include Qhull.

3. If you modify Qhull, you must include a notice giving the
   name of the person performing the modification, the date of
   modification, and the reason for such modification.

4. When distributing modified versions of Qhull, or other software
   products that include Qhull, you must provide notice that the original
   source code may be obtained as noted above.

5. There is no warranty or other guarantee of fitness for Qhull, it is
   provided solely "as is".  Bug reports or fixes may be sent to
   qhull_bug@qhull.org; the authors may or may not act on them as
   they desire.

-----------------------------------------------------------------------------------------

Name: pypocketfft

Copyright (C) 2010-2019 Max-Planck-Society All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
```

```
Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------

Name: uarray
Files: scipy/_lib/uarray/*
License: 3-Clause BSD
  For details, see scipy/_lib/uarray/LICENSE

BSD 3-Clause License

Copyright (c) 2018, Quansight-Labs
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------

Name: HiGHS

Copyright (c) 2021 ERGO-Code

    IPX and BASICLU, Copyright (c) 2018-2021  ERGO-Code
    Used in HiGHS under the MIT license.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

Name: Boost

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Biasedurn

---------- Forwarded message ---------
From: Agner Fog <agner@agner.org>
Date: Wed, Jul 22, 2020 at 8:54 PM
Subject: Re: Add BiasedUrn to SciPy?
To: Matt Haberland <mhaberla@calpoly.edu>
Cc: Warren Weckesser <warren.weckesser@gmail.com>

Dear Matt The C++ code for these distributions without binding to the R
 project
```

```
are available here:
https://www.agner.org/random/stocc.zip
You have my permission to use it in SciPy under the new BSD license.
Best regards,
Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:
Hi Agner, I'm a maintainer of the Python scientific computing library
 SciPy,
and I'm working on improving the capabilities of our statistics subpackage
scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral
hypergeometric distributions, but these look quite challenging to implement.
We found your BiasedUrn package, and we'd love to wrap it, but we can't
include GPL-3 licensed code under our BSD-new license. Would you consider
re-licensing BiasedUrn under a more permissive license, such as BSD-new or
MIT, so we can include it in SciPy?
Thank you for considering it!
Matt
--
Matt Haberland
Assistant Professor
BioResource and Agricultural Engineering
08A-3K, Cal Poly

----------------------------------------------------------------------------------------------------

Name: UNU.RAN

Permission was granted on 23 March 2021 by Josef Leydold
 (josef.leydold@wu.ac.at) and Wolfgang Hoermann (hormannw@bound.edu.tr)
to use the UNU.RAN code excluding the uniform random number generator in
 src/uniform/mrg31k3p.c (copyright by Renee Touzin)
under the BSD licence. The following files have been removed from the
 original library:

    unuran-1.8.1/COPYING
    unuran-1.8.1/INSTALL
    unuran-1.8.1/Makefile.am
    unuran-1.8.1/Makefile.in
    unuran-1.8.1/NEWS
    unuran-1.8.1/UPGRADE
    unuran-1.8.1/acinclude.m4
    unuran-1.8.1/aclocal.m4
    unuran-1.8.1/autoconf/config.guess
    unuran-1.8.1/autoconf/config.sub
    unuran-1.8.1/autoconf/depcomp
    unuran-1.8.1/autoconf/install-sh
    unuran-1.8.1/autoconf/ltmain.sh
    unuran-1.8.1/autoconf/mdate-sh
    unuran-1.8.1/autoconf/missing
    unuran-1.8.1/autogen.sh
    unuran-1.8.1/configure
    unuran-1.8.1/doc/Makefile.am
    unuran-1.8.1/doc/Makefile.in
    unuran-1.8.1/doc/figures/Makefile.am
    unuran-1.8.1/doc/figures/Makefile.in
    unuran-1.8.1/doc/figures/discrete_inversion.eps
    unuran-1.8.1/doc/figures/discrete_inversion.pdf
    unuran-1.8.1/doc/figures/discrete_inversion.png
    unuran-1.8.1/doc/figures/discrete_inversion.txt
    unuran-1.8.1/doc/figures/inversion.eps
    unuran-1.8.1/doc/figures/inversion.pdf
    unuran-1.8.1/doc/figures/inversion.png
    unuran-1.8.1/doc/figures/inversion.txt
```

```
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.eps
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.pdf
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.png
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.txt
    unuran-1.8.1/doc/figures/rou-cauchy.eps
    unuran-1.8.1/doc/figures/rou-cauchy.pdf
    unuran-1.8.1/doc/figures/rou-cauchy.png
    unuran-1.8.1/doc/figures/rou-cauchy.txt
    unuran-1.8.1/doc/figures/texpict2img.pl
    unuran-1.8.1/doc/src/Makefile.am
    unuran-1.8.1/doc/src/Makefile.in
    unuran-1.8.1/doc/src/README
    unuran-1.8.1/doc/src/arvag.dh
    unuran-1.8.1/doc/src/error_debug.dh
    unuran-1.8.1/doc/src/examples.dh
    unuran-1.8.1/doc/src/glossary.dh
    unuran-1.8.1/doc/src/index.dh
    unuran-1.8.1/doc/src/installation.dh
    unuran-1.8.1/doc/src/intro.dh
    unuran-1.8.1/doc/src/make_texi.pl
    unuran-1.8.1/doc/src/methods.dh
    unuran-1.8.1/doc/src/methods_cemp.texi
    unuran-1.8.1/doc/src/methods_cont.texi
    unuran-1.8.1/doc/src/methods_cvec.texi
    unuran-1.8.1/doc/src/methods_cvemp.texi
    unuran-1.8.1/doc/src/methods_discr.texi
    unuran-1.8.1/doc/src/methods_matr.texi
    unuran-1.8.1/doc/src/methods_mcmc.texi
    unuran-1.8.1/doc/src/misc.dh
    unuran-1.8.1/doc/src/ref_example0.texi
    unuran-1.8.1/doc/src/ref_example0_str.texi
    unuran-1.8.1/doc/src/ref_example1.texi
    unuran-1.8.1/doc/src/ref_example1_str.texi
    unuran-1.8.1/doc/src/ref_example2.texi
    unuran-1.8.1/doc/src/ref_example2_str.texi
    unuran-1.8.1/doc/src/ref_example3.texi
    unuran-1.8.1/doc/src/ref_example3_str.texi
    unuran-1.8.1/doc/src/ref_example_FuncStr.texi
    unuran-1.8.1/doc/src/ref_example_anti.texi
    unuran-1.8.1/doc/src/ref_example_anti_str.texi
    unuran-1.8.1/doc/src/ref_example_cext.texi
    unuran-1.8.1/doc/src/ref_example_cont.texi
    unuran-1.8.1/doc/src/ref_example_cont_str.texi
    unuran-1.8.1/doc/src/ref_example_dext.texi
    unuran-1.8.1/doc/src/ref_example_discr.texi
    unuran-1.8.1/doc/src/ref_example_discr_str.texi
    unuran-1.8.1/doc/src/ref_example_emp.texi
    unuran-1.8.1/doc/src/ref_example_emp_str.texi
    unuran-1.8.1/doc/src/ref_example_gsl.texi
    unuran-1.8.1/doc/src/ref_example_mixt.texi
    unuran-1.8.1/doc/src/ref_example_mixt_inv.texi
    unuran-1.8.1/doc/src/ref_example_rngstreams.texi
    unuran-1.8.1/doc/src/ref_example_vemp.texi
    unuran-1.8.1/doc/src/ref_example_win32_1.texi
    unuran-1.8.1/doc/src/ref_example_win32_2.texi
    unuran-1.8.1/doc/src/references.dh
    unuran-1.8.1/doc/src/stddist.dh
    unuran-1.8.1/doc/src/texinfo.tex
    unuran-1.8.1/doc/src/top.dh
    unuran-1.8.1/doc/src/unuran_src.texi
    unuran-1.8.1/doc/stamp-1
    unuran-1.8.1/doc/stamp-vti
    unuran-1.8.1/doc/unuran.html
    unuran-1.8.1/doc/unuran.info
```

```
    unuran-1.8.1/doc/unuran.pdf
    unuran-1.8.1/doc/unuran.texi
    unuran-1.8.1/doc/unuran.txt
    unuran-1.8.1/doc/unuran_win32.html
    unuran-1.8.1/doc/unuran_win32.info
    unuran-1.8.1/doc/unuran_win32.pdf
    unuran-1.8.1/doc/unuran_win32.texi
    unuran-1.8.1/doc/unuran_win32_libname.texi
    unuran-1.8.1/doc/version.texi
    unuran-1.8.1/doc/version_win32.texi
    unuran-1.8.1/examples/Makefile.am
    unuran-1.8.1/examples/Makefile.in
    unuran-1.8.1/examples/example0.c
    unuran-1.8.1/examples/example0_str.c
    unuran-1.8.1/examples/example1.c
    unuran-1.8.1/examples/example1_str.c
    unuran-1.8.1/examples/example2.c
    unuran-1.8.1/examples/example2_str.c
    unuran-1.8.1/examples/example3.c
    unuran-1.8.1/examples/example3_str.c
    unuran-1.8.1/examples/example_FuncStr.c
    unuran-1.8.1/examples/example_anti.c
    unuran-1.8.1/examples/example_anti_str.c
    unuran-1.8.1/examples/example_cext.c
    unuran-1.8.1/examples/example_cont.c
    unuran-1.8.1/examples/example_cont_str.c
    unuran-1.8.1/examples/example_cpp.cpp
    unuran-1.8.1/examples/example_dext.c
    unuran-1.8.1/examples/example_discr.c
    unuran-1.8.1/examples/example_discr_str.c
    unuran-1.8.1/examples/example_emp.c
    unuran-1.8.1/examples/example_emp_str.c
    unuran-1.8.1/examples/example_errorhandler.c
    unuran-1.8.1/examples/example_gsl.c
    unuran-1.8.1/examples/example_mcorr.c
    unuran-1.8.1/examples/example_mixt.c
    unuran-1.8.1/examples/example_mixt_inv.c
    unuran-1.8.1/examples/example_prng.c
    unuran-1.8.1/examples/example_prng_str.c
    unuran-1.8.1/examples/example_rngstreams.c
    unuran-1.8.1/examples/example_vemp.c
    unuran-1.8.1/experiments/Makefile.am
    unuran-1.8.1/experiments/Makefile.in
    unuran-1.8.1/experiments/make_timing_table.c
    unuran-1.8.1/experiments/timings_chap_10.conf
    unuran-1.8.1/experiments/timings_chap_8.conf
    unuran-1.8.1/scripts/Makefile.am
    unuran-1.8.1/scripts/Makefile.in
    unuran-1.8.1/scripts/compute_machine_constants.c
    unuran-1.8.1/scripts/make_urng_header.pl
    unuran-1.8.1/scripts/merge_h.pl
    unuran-1.8.1/scripts/read_PDF.pl
    unuran-1.8.1/scripts/remove_comments.pl
    unuran-1.8.1/scripts/run_valgrind.sh
    unuran-1.8.1/scripts/win32/Makefile.win32
    unuran-1.8.1/scripts/win32/build.sh
    unuran-1.8.1/scripts/win32/example1.c
    unuran-1.8.1/scripts/win32/example2.c
    unuran-1.8.1/scripts/win32/make_dll_def.pl
    unuran-1.8.1/src/Makefile.am
    unuran-1.8.1/src/Makefile.in
    unuran-1.8.1/src/README
    unuran-1.8.1/src/distr/Makefile.am
    unuran-1.8.1/src/distr/Makefile.in
```

```
    unuran-1.8.1/src/distributions/Makefile.am
    unuran-1.8.1/src/distributions/Makefile.in
    unuran-1.8.1/src/distributions/README
    unuran-1.8.1/src/methods/Makefile.am
    unuran-1.8.1/src/methods/Makefile.in
    unuran-1.8.1/src/parser/Makefile.am
    unuran-1.8.1/src/parser/Makefile.in
    unuran-1.8.1/src/parser/functparser_doc.dh
    unuran-1.8.1/src/parser/make_stringparser.pl
    unuran-1.8.1/src/parser/stringparser_doc.dh
    unuran-1.8.1/src/specfunct/Makefile.am
    unuran-1.8.1/src/specfunct/Makefile.in
    unuran-1.8.1/src/tests/Makefile.am
    unuran-1.8.1/src/tests/Makefile.in
    unuran-1.8.1/src/uniform/Makefile.am
    unuran-1.8.1/src/uniform/Makefile.in
    unuran-1.8.1/src/uniform/fish.c
    unuran-1.8.1/src/uniform/mrg31k3p.c
    unuran-1.8.1/src/uniform/mstd.c
    unuran-1.8.1/src/uniform/unuran_urng_gsl.h
    unuran-1.8.1/src/uniform/unuran_urng_prng.h
    unuran-1.8.1/src/uniform/unuran_urng_rngstreams.h
    unuran-1.8.1/src/uniform/urng_builtin.c
    unuran-1.8.1/src/uniform/urng_builtin.h
    unuran-1.8.1/src/uniform/urng_fvoid.c
    unuran-1.8.1/src/uniform/urng_fvoid.h
    unuran-1.8.1/src/uniform/urng_gsl.c
    unuran-1.8.1/src/uniform/urng_gsl.h
    unuran-1.8.1/src/uniform/urng_gslqrng.c
    unuran-1.8.1/src/uniform/urng_gslqrng.h
    unuran-1.8.1/src/uniform/urng_prng.c
    unuran-1.8.1/src/uniform/urng_prng.h
    unuran-1.8.1/src/uniform/urng_randomshift.c
    unuran-1.8.1/src/uniform/urng_randomshift.h
    unuran-1.8.1/src/uniform/urng_rngstreams.c
    unuran-1.8.1/src/uniform/urng_rngstreams.h
    unuran-1.8.1/src/unuran.h.in
    unuran-1.8.1/src/urng/Makefile.am
    unuran-1.8.1/src/urng/Makefile.in
    unuran-1.8.1/src/utils/Makefile.am
    unuran-1.8.1/src/utils/Makefile.in
    unuran-1.8.1/tests/Makefile.am
    unuran-1.8.1/tests/Makefile.in
    unuran-1.8.1/tests/README.conf
    unuran-1.8.1/tests/make_test_files.pl
    unuran-1.8.1/tests/t_arou.c
    unuran-1.8.1/tests/t_arou.conf
    unuran-1.8.1/tests/t_ars.c
    unuran-1.8.1/tests/t_ars.conf
    unuran-1.8.1/tests/t_auto.c
    unuran-1.8.1/tests/t_auto.conf
    unuran-1.8.1/tests/t_cext.c
    unuran-1.8.1/tests/t_cext.conf
    unuran-1.8.1/tests/t_cstd.c
    unuran-1.8.1/tests/t_cstd.conf
    unuran-1.8.1/tests/t_dari.c
    unuran-1.8.1/tests/t_dari.conf
    unuran-1.8.1/tests/t_dau.c
    unuran-1.8.1/tests/t_dau.conf
    unuran-1.8.1/tests/t_deprecated_tdrgw.c
    unuran-1.8.1/tests/t_deprecated_vmt.c
    unuran-1.8.1/tests/t_deprecated_vmt.conf
    unuran-1.8.1/tests/t_dext.c
    unuran-1.8.1/tests/t_dext.conf
```

```
    unuran-1.8.1/tests/t_dgt.c
    unuran-1.8.1/tests/t_dgt.conf
    unuran-1.8.1/tests/t_distr.c
    unuran-1.8.1/tests/t_distr.conf
    unuran-1.8.1/tests/t_distr_cemp.c
    unuran-1.8.1/tests/t_distr_cemp.conf
    unuran-1.8.1/tests/t_distr_condi.c
    unuran-1.8.1/tests/t_distr_condi.conf
    unuran-1.8.1/tests/t_distr_cont.c
    unuran-1.8.1/tests/t_distr_cont.conf
    unuran-1.8.1/tests/t_distr_corder.c
    unuran-1.8.1/tests/t_distr_corder.conf
    unuran-1.8.1/tests/t_distr_cvec.c
    unuran-1.8.1/tests/t_distr_cvec.conf
    unuran-1.8.1/tests/t_distr_cvemp.c
    unuran-1.8.1/tests/t_distr_cvemp.conf
    unuran-1.8.1/tests/t_distr_cxtrans.c
    unuran-1.8.1/tests/t_distr_cxtrans.conf
    unuran-1.8.1/tests/t_distr_discr.c
    unuran-1.8.1/tests/t_distr_discr.conf
    unuran-1.8.1/tests/t_distr_matr.c
    unuran-1.8.1/tests/t_distr_matr.conf
    unuran-1.8.1/tests/t_dsrou.c
    unuran-1.8.1/tests/t_dsrou.conf
    unuran-1.8.1/tests/t_dss.c
    unuran-1.8.1/tests/t_dss.conf
    unuran-1.8.1/tests/t_dstd.c
    unuran-1.8.1/tests/t_dstd.conf
    unuran-1.8.1/tests/t_empk.c
    unuran-1.8.1/tests/t_empk.conf
    unuran-1.8.1/tests/t_empl.c
    unuran-1.8.1/tests/t_empl.conf
    unuran-1.8.1/tests/t_gibbs.c
    unuran-1.8.1/tests/t_gibbs.conf
    unuran-1.8.1/tests/t_hinv.c
    unuran-1.8.1/tests/t_hinv.conf
    unuran-1.8.1/tests/t_hist.c
    unuran-1.8.1/tests/t_hist.conf
    unuran-1.8.1/tests/t_hitro.c
    unuran-1.8.1/tests/t_hrb.c
    unuran-1.8.1/tests/t_hrb.conf
    unuran-1.8.1/tests/t_hrd.c
    unuran-1.8.1/tests/t_hrd.conf
    unuran-1.8.1/tests/t_hri.c
    unuran-1.8.1/tests/t_hri.conf
    unuran-1.8.1/tests/t_info.c
    unuran-1.8.1/tests/t_info.conf
    unuran-1.8.1/tests/t_itdr.c
    unuran-1.8.1/tests/t_itdr.conf
    unuran-1.8.1/tests/t_mcorr.c
    unuran-1.8.1/tests/t_mcorr.conf
    unuran-1.8.1/tests/t_mixt.c
    unuran-1.8.1/tests/t_mvstd.c
    unuran-1.8.1/tests/t_mvstd.conf
    unuran-1.8.1/tests/t_mvtdr.c
    unuran-1.8.1/tests/t_ninv.c
    unuran-1.8.1/tests/t_ninv.conf
    unuran-1.8.1/tests/t_norta.c
    unuran-1.8.1/tests/t_norta.conf
    unuran-1.8.1/tests/t_nrou.c
    unuran-1.8.1/tests/t_nrou.conf
    unuran-1.8.1/tests/t_pinv
    unuran-1.8.1/tests/t_pinv.c
    unuran-1.8.1/tests/t_srou.c
```

```
    unuran-1.8.1/tests/t_srou.conf
    unuran-1.8.1/tests/t_ssr.c
    unuran-1.8.1/tests/t_ssr.conf
    unuran-1.8.1/tests/t_stringparser.c
    unuran-1.8.1/tests/t_stringparser.conf
    unuran-1.8.1/tests/t_tabl.c
    unuran-1.8.1/tests/t_tabl.conf
    unuran-1.8.1/tests/t_tdr.c
    unuran-1.8.1/tests/t_tdr.conf
    unuran-1.8.1/tests/t_tdr_gw.c
    unuran-1.8.1/tests/t_tdr_gw.conf
    unuran-1.8.1/tests/t_tdr_ia.c
    unuran-1.8.1/tests/t_tdr_ia.conf
    unuran-1.8.1/tests/t_tdr_ps.c
    unuran-1.8.1/tests/t_tdr_ps.conf
    unuran-1.8.1/tests/t_unif.c
    unuran-1.8.1/tests/t_unif.conf
    unuran-1.8.1/tests/t_unur_error.c
    unuran-1.8.1/tests/t_unur_error.conf
    unuran-1.8.1/tests/t_unur_tests.c
    unuran-1.8.1/tests/t_unur_tests.conf
    unuran-1.8.1/tests/t_urng.c
    unuran-1.8.1/tests/t_urng.conf
    unuran-1.8.1/tests/t_utdr.c
    unuran-1.8.1/tests/t_utdr.conf
    unuran-1.8.1/tests/t_util_matrix.c
    unuran-1.8.1/tests/t_util_matrix.conf
    unuran-1.8.1/tests/t_vempk.c
    unuran-1.8.1/tests/t_vempk.conf
    unuran-1.8.1/tests/t_vnrou.c
    unuran-1.8.1/tests/t_vnrou.conf
    unuran-1.8.1/tests/t_x_gen.c
    unuran-1.8.1/tests/t_x_gen.conf
    unuran-1.8.1/tests/test_StdDistr.c
    unuran-1.8.1/tests/test_StdDistr.m
    unuran-1.8.1/tests/test_functionparser.c
    unuran-1.8.1/tests/test_functionparser.m
    unuran-1.8.1/tests/testcounter.c
    unuran-1.8.1/tests/testdistributions/Makefile.am
    unuran-1.8.1/tests/testdistributions/Makefile.in
    unuran-1.8.1/tests/testdistributions/c_sawtooth_contpdf.c
    unuran-1.8.1/tests/testdistributions/c_sawtooth_discpdf.c
    unuran-1.8.1/tests/testdistributions/c_w_pdf_from_logpdf.c
    unuran-1.8.1/tests/testdistributions/c_with_multiple_of_pdf.c
    unuran-1.8.1/tests/testdistributions/c_wo_logpdf.c
    unuran-1.8.1/tests/testdistributions/testdistributions.h
    unuran-1.8.1/tests/testdistributions/vc_cauchy_RoU_ball.c
    unuran-1.8.1/tests/testdistributions/vc_special_correlations_ar1.c
    unuran-1.8.1/tests/testdistributions/
vc_special_correlations_constantrho.c
    unuran-1.8.1/tests/testdistributions/vc_w_marginals.c
    unuran-1.8.1/tests/testdistributions/vc_wo_logpdf.c
    unuran-1.8.1/tests/testroutines.c
    unuran-1.8.1/tests/testunuran.h
    unuran-1.8.1/src/distr/deprecated_distr.c
    unuran-1.8.1/src/distr/deprecated_distr.h
    unuran-1.8.1/src/methods/deprecated_methods.c
    unuran-1.8.1/src/methods/deprecated_methods.h
    unuran-1.8.1/src/methods/deprecated_tdrgw.h
    unuran-1.8.1/src/methods/deprecated_vmt.c
    unuran-1.8.1/src/methods/deprecated_vmt.h
    unuran-1.8.1/src/methods/deprecated_vmt_struct.h
    unuran-1.8.1/src/parser/stringparser_lists.ch.in
```

```
UNU.RAN relies on a modified version of the library Cephes, see ./src/src/
specfunct/cephes_source.h

Details from /src/src/specfunct/cephes_source.h
-----------------------------------------------
   This file was considerably changed for UNU.RAN.
   As a consequence it has been renamed from "mconf.h" to
   "cephes_source.h" to avoid confusion.

   We were only interested in the files:
      gamma.c
      igamma.c
      incbet.c
      ndtr.c
      ndtri.c
   to use these files we needed the auxiliary files:
      isnan.c
      mtherr.c
      polevl.c
   The aim was to enhance portability for ANSI C without expert
   knowledge of the floating point unit.
   The main changes are
      numeric constants (in cephes - const.c) are replaced
      by macros defined in this file (source_mconf.h).
      We changed these constants using the constants provided by
      ANSI C in the math.h file.
      We changed also the definitions of MAXGAM (in incbet.c) and of
      MAXSTIR (in gamma.c).
      Everything concerning NANS and INFINITY was moved into isnan.c.
      (Also the defines to turn it off or on.)
      We have only tested this version with NAN and INFINITY turned
      off, but we have not changed anything concerning that
      question. So turning this support on should (could) work.
   March 26th, 2001, Josef Leydold and Wolfgang Hoermann.

/
*------------------------------------------------------------------------------
*/

/*              mconf.h
 *
 *  Common include file for math routines
 *
 *
 *
 * SYNOPSIS:
 *
 * #include "mconf.h"
 *
 *
 *
 * DESCRIPTION:
 *
 * This file contains definitions for error codes that are
 * passed to the common error handling routine mtherr()
 * (which see).
 *
 * The file also includes a conditional assembly definition
 * for the type of computer arithmetic (IEEE, DEC, Motorola
 * IEEE, or UNKnown).
 *
 * For Digital Equipment PDP-11 and VAX computers, certain
 * IBM systems, and others that use numbers with a 56-bit
 * significand, the symbol DEC should be defined.  In this
```

```
 * mode, most floating point constants are given as arrays
 * of octal integers to eliminate decimal to binary conversion
 * errors that might be introduced by the compiler.
 *
 * For little-endian computers, such as IBM PC, that follow the
 * IEEE Standard for Binary Floating Point Arithmetic (ANSI/IEEE
 * Std 754-1985), the symbol IBMPC should be defined.  These
 * numbers have 53-bit significands.  In this mode, constants
 * are provided as arrays of hexadecimal 16 bit integers.
 *
 * Big-endian IEEE format is denoted MIEEE.  On some RISC
 * systems such as Sun SPARC, double precision constants
 * must be stored on 8-byte address boundaries.  Since integer
 * arrays may be aligned differently, the MIEEE configuration
 * may fail on such machines.
 *
 * To accommodate other types of computer arithmetic, all
 * constants are also provided in a normal decimal radix
 * which one can hope are correctly converted to a suitable
 * format by the available C language compiler.  To invoke
 * this mode, define the symbol UNK.
 *
 * An important difference among these modes is a predefined
 * set of machine arithmetic constants for each.  The numbers
 * MACHEP (the machine roundoff error), MAXNUM (largest number
 * represented), and several other parameters are preset by
 * the configuration symbol.  Check the file const.c to
 * ensure that these values are correct for your computer.
 *
 * Configurations NANS, INFINITIES, MINUSZERO, and DENORMAL
 * may fail on many systems.  Verify that they are supposed
 * to work on your computer.
 */

Cephes Math Library Release 2.3:  June, 1995
Copyright 1984, 1987, 1989, 1995 by Stephen L. Moshier

--------------------------------------------------------------------------------------------------

Name: NumPy

Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-----
setuptools:
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

-----
statsmodels:
Copyright (C) 2006, Jonathan E. Taylor
All rights reserved.

Copyright (c) 2006-2008 Scipy Developers.
All rights reserved.

Copyright (c) 2009-2018 statsmodels Developers.
All rights reserved.


Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of statsmodels nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL STATSMODELS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.



The license of statsmodels can be found in LICENSE.txt

statsmodels contains code or derivative code from several other
```

```
packages. Some modules also note the author of individual contributions, or
author of code that formed the basis for the derived or translated code.
The copyright statements for the datasets are attached to the individual
datasets, most datasets are in public domain, and we do not claim any
 copyright
on any of them.

In the following, we collect copyright statements of code from other
 packages,
all of which are either a version of BSD or MIT licensed:

numpy
scipy
pandas
matplotlib
scikit-learn
qsturng-py http://code.google.com/p/qsturng-py/


numpy (statsmodels.compatnp contains copy of entire model)
----------------------------------------------------------
Copyright (c) 2005-2024, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------------------------------

scipy
-----
Copyright (c) 2001, 2002 Enthought, Inc.
All rights reserved.

Copyright (c) 2003-2009 SciPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the Enthought nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
-----------------------------------------------------------------------------


pandas
------

Copyright (c) 2008-2009 AQR Capital Management, LLC
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the copyright holder nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------------------------------------------


matplotlib (copied from license.py)
-----------------------------------
```

```
LICENSE AGREEMENT FOR MATPLOTLIB %(version)s
--------------------------------------

1. This LICENSE AGREEMENT is between John D. Hunter ("JDH"), and the
Individual or Organization ("Licensee") accessing and otherwise using
matplotlib software in source or binary form and its associated
documentation.

2. Subject to the terms and conditions of this License Agreement, JDH
hereby grants Licensee a nonexclusive, royalty-free, world-wide license
to reproduce, analyze, test, perform and/or display publicly, prepare
derivative works, distribute, and otherwise use matplotlib %(version)s
alone or in any derivative version, provided, however, that JDH's
License Agreement and JDH's notice of copyright, i.e., "Copyright (c)
2002-%(year)d John D. Hunter; All Rights Reserved" are retained in
matplotlib %(version)s alone or in any derivative version prepared by
Licensee.

3. In the event Licensee prepares a derivative work that is based on or
incorporates matplotlib %(version)s or any part thereof, and wants to
make the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to matplotlib %(version)s.

4. JDH is making matplotlib %(version)s available to Licensee on an "AS
IS" basis. JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB %(version)s
WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB
%(version)s FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR
LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING
MATPLOTLIB %(version)s, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF
THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between JDH and
Licensee. This License Agreement does not grant permission to use JDH
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using matplotlib %(version)s,
Licensee agrees to be bound by the terms and conditions of this License
Agreement.
-----------------------------------------------------------------------------

scikits-learn
-------------

New BSD License

Copyright (c) 2007 - 2010 Scikit-Learn Developers.
All rights reserved.


Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
```

```
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the Scikit-learn Developers  nor the names of
     its contributors may be used to endorse or promote products
     derived from this software without specific prior written
     permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
------------------------------------------------------------------------------

qsturng-py (code included in statsmodels.stats.libqsturng)
-----------------------------------------------------------------
Copyright (c) 2011, Roger Lew [see LICENSE.txt]
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials provided
    with the distribution.
  * Neither the name of the organizations affiliated with the
    contributors or the names of its contributors themselves may be
    used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------

-----
urllib3:
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------------------------------------------------------------------------
packaging,BSD

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Terence Parr / Component(s): ANTLR 4.7.2

```
ANTLR 4 License
[The BSD License]
Copyright (c) 2012 Terence Parr and Sam Harwell
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
```

```
    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the author nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

Provider: Terence Parr / Component(s): ANTLR4 4.9.2

```
antlr4 4.9.2

COPYRIGHT and LICENSE:
[The "BSD 3-clause license"]
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holder nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
=====
MIT License for codepointat.js from https://git.io/codepointat
MIT License for fromcodepoint.js from https://git.io/vDW1m
Copyright Mathias Bynens <https://mathiasbynens.be/>
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
```

```
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
===========================
Modules:
runtime/Java
tool
antlr4-maven-plugin
tool-testsuite
runtime-testsuite/annotations
runtime-testsuite/processors
runtime-testsuite
===========================
4P Dependencies:
com.ibm.icu » icu4j 69.1
COPYRIGHT and LICENSE: ICU License - ICU 1.8.1 and later
COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)
Copyright © 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/
copyright.html.
Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.
THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.
Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.
---------------------
Third-Party Software Licenses
This section contains third-party software notices and/or additional
terms for licensed third-party software components included within ICU
libraries.
1. ICU License - ICU 1.8.1 to ICU 57.1
COPYRIGHT AND PERMISSION NOTICE
Copyright (c) 1995-2016 International Business Machines Corporation and
 others
All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
```

```
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.
All trademarks and registered trademarks mentioned herein are the
property of their respective owners.
2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)
# The Google Chrome software developed by Google is licensed under
# the BSD license. Other software included in this distribution is
# provided under other licenses, as set forth below.
#
# The BSD License
# http://opensource.org/licenses/bsd-license.php
# Copyright (C) 2006-2008, Google Inc.
#
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are
 met:
#
# Redistributions of source code must retain the above copyright notice,
# this list of conditions and the following disclaimer.
# Redistributions in binary form must reproduce the above
# copyright notice, this list of conditions and the following
# disclaimer in the documentation and/or other materials provided with
# the distribution.
# Neither the name of Google Inc. nor the names of its
# contributors may be used to endorse or promote products derived from
# this software without specific prior written permission.
#
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
# CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
# INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
# DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
# LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
# BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
# LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
# NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
# SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
#
# The word list in cjdict.txt are generated by combining three word lists
# listed below with further processing for compound word breaking. The
```

```
# frequency is generated with an iterative training against Google web
# corpora.
#
# * Libtabe (Chinese)
# - https://sourceforge.net/project/?group_id=1519
# - Its license terms and conditions are shown below.
#
# * IPADIC (Japanese)
# - http://chasen.aist-nara.ac.jp/chasen/distribution.html
# - Its license terms and conditions are shown below.
#
# ---------COPYING.libtabe ---- BEGIN--------------------
#
# /*
# * Copyright (c) 1999 TaBE Project.
# * Copyright (c) 1999 Pai-Hsiang Hsiao.
# * All rights reserved.
# *
# * Redistribution and use in source and binary forms, with or without
# * modification, are permitted provided that the following conditions
# * are met:
# *
# * . Redistributions of source code must retain the above copyright
# * notice, this list of conditions and the following disclaimer.
# * . Redistributions in binary form must reproduce the above copyright
# * notice, this list of conditions and the following disclaimer in
# * the documentation and/or other materials provided with the
# * distribution.
# * . Neither the name of the TaBE Project nor the names of its
# * contributors may be used to endorse or promote products derived
# * from this software without specific prior written permission.
# *
# * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
# * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
# * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
# * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
# * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
# * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
# * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
# * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
# * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
# * OF THE POSSIBILITY OF SUCH DAMAGE.
# */
#
# /*
# * Copyright (c) 1999 Computer Systems and Communication Lab,
# * Institute of Information Science, Academia
# * Sinica. All rights reserved.
# *
# * Redistribution and use in source and binary forms, with or without
# * modification, are permitted provided that the following conditions
# * are met:
# *
# * . Redistributions of source code must retain the above copyright
# * notice, this list of conditions and the following disclaimer.
# * . Redistributions in binary form must reproduce the above copyright
# * notice, this list of conditions and the following disclaimer in
# * the documentation and/or other materials provided with the
# * distribution.
# * . Neither the name of the Computer Systems and Communication Lab
# * nor the names of its contributors may be used to endorse or
# * promote products derived from this software without specific
```

```
# * prior written permission.
# *
# * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
# * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
# * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
# * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
# * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
# * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
# * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
# * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
# * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
# * OF THE POSSIBILITY OF SUCH DAMAGE.
# */
#
# Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
# University of Illinois
# c-tsai4@uiuc.edu http://casper.beckman.uiuc.edu/~c-tsai4
#
# ---------------COPYING.libtabe-----END-------------------------------
#
#
# ---------------COPYING.ipadic-----BEGIN------------------------------
#
# Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
# and Technology. All Rights Reserved.
#
# Use, reproduction, and distribution of this software is permitted.
# Any copy of this software, whether in its original form or modified,
# must include both the above copyright notice and the following
# paragraphs.
#
# Nara Institute of Science and Technology (NAIST),
# the copyright holders, disclaims all warranties with regard to this
# software, including all implied warranties of merchantability and
# fitness, in no event shall NAIST be liable for
# any special, indirect or consequential damages or any damages
# whatsoever resulting from loss of use, data or profits, whether in an
# action of contract, negligence or other tortuous action, arising out
# of or in connection with the use or performance of this software.
#
# A large portion of the dictionary entries
# originate from ICOT Free Software. The following conditions for ICOT
# Free Software applies to the current dictionary as well.
#
# Each User may also freely distribute the Program, whether in its
# original form or modified, to any third party or parties, PROVIDED
# that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
# on, or be attached to, the Program, which is distributed substantially
# in the same form as set out herein and that such intended
# distribution, if actually made, will neither violate or otherwise
# contravene any of the laws and regulations of the countries having
# jurisdiction over the User or the intended distribution itself.
#
# NO WARRANTY
#
# The program was produced on an experimental basis in the course of the
# research and development conducted during the project and is provided
# to users as so produced on an experimental basis. Accordingly, the
# program is provided without any warranty whatsoever, whether express,
# implied, statutory or otherwise. The term "warranty" used herein
# includes, but is not limited to, any warranty of the quality,
# performance, merchantability and fitness for a particular purpose of
```

```
# the program and the nonexistence of any infringement or violation of
# any right of any third party.
#
# Each user of the program will agree and understand, and be deemed to
# have agreed and understood, that there is no warranty whatsoever for
# the program and, accordingly, the entire risk arising from or
# otherwise connected with the program is assumed by the user.
#
# Therefore, neither ICOT, the copyright holder, or any other
# organization that participated in or was otherwise related to the
# development of the program and their respective officials, directors,
# officers and other employees shall be held liable for any and all
# damages, including, without limitation, general, special, incidental
# and consequential damages, arising out of or otherwise in connection
# with the use or inability to use the program or any product, material
# or result produced or otherwise obtained by using the program,
# regardless of whether they have been advised of, or otherwise had
# knowledge of, the possibility of such damages at any time during the
# project or thereafter. Each user will be deemed to have agreed to the
# foregoing by his or her commencement of use of the program. The term
# "use" as used herein includes, but is not limited to, the use,
# modification, copying and distribution of the program and the
# production of secondary products from the program.
#
# In the case where the program, whether in its original form or
# modified, was distributed or delivered to or received by a user from
# any person, organization or entity other than ICOT, unless it makes or
# grants independently of ICOT any specific warranty to the user in
# writing, such person, organization or entity, will also be exempted
# from and not be held liable to the user for any such damages as noted
# above as far as the program is concerned.
#
# ---------------COPYING.ipadic-----END----------------------------------
3. Lao Word Break Dictionary Data (laodict.txt)
# Copyright (c) 2013 International Business Machines Corporation
# and others. All Rights Reserved.
#
# Project: https://github.com/veer66/lao-dictionary
# Dictionary: https://github.com/veer66/lao-dictionary/blob/master/Lao-
Dictionary.txt
# License: https://github.com/veer66/lao-dictionary/blob/master/Lao-
Dictionary-LICENSE.txt
# (copied below)
#
# This file is derived from the above dictionary, with slight
# modifications.
# --------------------------------------------------------------------------
# Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification,
# are permitted provided that the following conditions are met:
#
#
# Redistributions of source code must retain the above copyright notice,
 this
# list of conditions and the following disclaimer. Redistributions in
# binary form must reproduce the above copyright notice, this list of
# conditions and the following disclaimer in the documentation and/or
# other materials provided with the distribution.
#
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
# "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
# LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
# FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
# COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
# INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
# (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
# SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
# STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
# OF THE POSSIBILITY OF SUCH DAMAGE.
# ---------------------------------------------------------------------------
4. Burmese Word Break Dictionary Data (burmesedict.txt)
# Copyright (c) 2014 International Business Machines Corporation
# and others. All Rights Reserved.
#
# This list is part of a project hosted at:
# github.com/kanyawtech/myanmar-karen-word-lists
#
# ---------------------------------------------------------------------------
# Copyright (c) 2013, LeRoy Benjamin Sharon
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions
# are met: Redistributions of source code must retain the above
# copyright notice, this list of conditions and the following
# disclaimer. Redistributions in binary form must reproduce the
# above copyright notice, this list of conditions and the following
# disclaimer in the documentation and/or other materials provided
# with the distribution.
#
# Neither the name Myanmar Karen Word Lists, nor the names of its
# contributors may be used to endorse or promote products derived
# from this software without specific prior written permission.
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
# CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
# INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
# DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
# BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
# EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
# TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
# DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
# ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
# TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
# THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
# SUCH DAMAGE.
# ---------------------------------------------------------------------------
5. Time Zone Database
ICU uses the public domain data and code derived from Time Zone
Database for its time zone support. The ownership of the TZ database
is explained in BCP 175: Procedure for Maintaining the Time Zone
Database section 7.
# 7. Database Ownership
#
# The TZ database itself is not an IETF Contribution or an IETF
# document. Rather it is a pre-existing and regularly updated work
# that is in the public domain, and is intended to remain in the
# public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
# not apply to the TZ Database or contributions that individuals make
# to it. Should any claims be made and substantiated against the TZ
# Database, the organization that is providing the IANA
```

```
# Considerations defined in this RFC, under the memorandum of
# understanding with the IETF, currently ICANN, may act in accordance
# with all competent court orders. No ownership claims will be made
# by ICANN or the IETF Trust on the database or the code. Any person
# making a contribution to the database or code waives all rights to
# future claims in that contribution or in the TZ Database.
6. Google double-conversion
Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
------------
https://www.unicode.org/copyright.html
Unicode® Copyright and Terms of Use
For the general privacy policy governing access to this site, see the
 Unicode Privacy
Policy.
A. Unicode Copyright
1. Copyright © 1991-2021 Unicode, Inc. All rights reserved.
B. Definitions
C. Unicode Data Files ("DATA FILES") include all data files under the
 directories:
D. https://www.unicode.org/Public/
E. https://www.unicode.org/reports/
F. https://www.unicode.org/ivd/data/
G.
H. Unicode Data Files do not include PDF online code charts under the
 directory:
I. https://www.unicode.org/Public/
J.
K. Unicode Software ("SOFTWARE") includes any source code published in the
 Unicode
Standard
L. or any source code or compiled code under the directories:
M. https://www.unicode.org/Public/PROGRAMS/
N. https://www.unicode.org/Public/cldr/
O. http://site.icu-project.org/download/
P. Terms of Use
1. Certain documents and files on this website contain a legend indicating
 that
"Modification is permitted." Any person is hereby authorized, without fee,
 to modify such
documents and files to create derivative works conforming to the Unicode®
 Standard,
```

```
subject to Terms and Conditions herein.
2. Any person is hereby authorized, without fee, to view, use, reproduce,
 and distribute
all documents and files, subject to the Terms and Conditions herein.
3. Further specifications of rights and restrictions pertaining to the use
 of the
Unicode DATA FILES and SOFTWARE can be found in the Unicode Data Files and
 Software
License.
4. Each version of the Unicode Standard has further specifications of rights
 and
restrictions of use. For the book editions (Unicode 5.0 and earlier), these
 are found on
the back of the title page.
5. The Unicode PDF online code charts carry specific restrictions. Those
 restrictions
are incorporated as the first page of each PDF code chart.
6. All other files, including online documentation of the core specification
 for Unicode
6.0 and later, are covered under these general Terms of Use.
7. No license is granted to "mirror" the Unicode website where a fee is
 charged for
access to the "mirror" site.
8. Modification is not permitted with respect to this document. All copies
 of this
document must be verbatim.
Q. Restricted Rights Legend
1. Any technical data or software which is licensed to the United States of
 America, its
agencies and/or instrumentalities under this Agreement is commercial
 technical data or
commercial computer software developed exclusively at private expense as
 defined in FAR
2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data,
 use,
duplication, or disclosure by the Government is subject to restrictions as
 set forth in
DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this
 Agreement.
For Software, in accordance with FAR 12-212 or DFARS 227-7202, as
 applicable, use,
duplication or disclosure by the Government is subject to the restrictions
 set forth in
this Agreement.
R. Warranties and Disclaimers
1. This publication and/or website may include technical or typographical
 errors or
other inaccuracies. Changes are periodically added to the information
 herein; these
changes will be incorporated in new editions of the publication and/or
 website. Unicode,
Inc. may make improvements and/or changes in the product(s) and/or
 program(s) described
in this publication and/or website at any time.
2. If this file has been purchased on magnetic or optical media from
 Unicode, Inc. the
sole and exclusive remedy for any claim will be exchange of the defective
 media within
ninety (90) days of original purchase.
3. EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS
 PROVIDED "AS
IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY,
 INCLUDING, BUT
```

```
NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
 PURPOSE, OR
NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY
 FOR ERRORS OR
OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE
 REFERENCED BY
OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.
S. Waiver of Damages
1. In no event shall Unicode, Inc. or its licensors be liable for any
 special,
incidental, indirect or consequential damages of any kind, or any damages
 whatsoever,
whether or not Unicode, Inc. was advised of the possibility of the damage,
 including,
without limitation, those resulting from the following: loss of use, data or
 profits, in
connection with the use, modification or distribution of this information or
 its
derivatives.
T. Trademarks & Logos
1. The Unicode Word Mark and the Unicode Logo are trademarks of Unicode,
 Inc. "The
Unicode Consortium" and "Unicode, Inc." are trade names of Unicode, Inc. Use
 of the
information and materials found on this website indicates your
 acknowledgement of
Unicode, Inc.'s exclusive worldwide rights in the Unicode Word Mark, the
 Unicode Logo,
and the Unicode trade names.
2. The Unicode Consortium Name and Trademark Usage Policy ("Trademark
 Policy") are
incorporated herein by reference and you agree to abide by the provisions of
 the
Trademark Policy, which may be changed from time to time in the sole
 discretion of
Unicode, Inc.
3. All third party trademarks referenced herein are the property of their
 respective
owners.
U. Miscellaneous
1. Jurisdiction and Venue. This website is operated from a location in the
 State of
California, United States of America. Unicode, Inc. makes no representation
 that the
materials are appropriate for use in other locations. If you access this
 website from
other locations, you are responsible for compliance with local laws. This
 Agreement, all
use of this website and any claims and damages resulting from use of this
 website are
governed solely by the laws of the State of California without regard to any
 principles
which would apply the laws of a different jurisdiction. The user agrees that
 any disputes
regarding this website shall be resolved solely in the courts located in
 Santa Clara
County, California. The user agrees said courts have personal jurisdiction
 and agree to
waive any right to transfer the dispute to any other forum.
2. Modification by Unicode, Inc. Unicode, Inc. shall have the right to
 modify this
Agreement at any time by posting it to this website. The user may not assign
 any part of
this Agreement without Unicode, Inc.'s prior written consent.
```

```
3. Taxes. The user agrees to pay any taxes arising from access to this
 website or use of
the information herein, except for those based on Unicode’s net income.
4. Severability.  If any provision of this Agreement is declared invalid or
unenforceable, the remaining provisions of this Agreement shall remain in
 effect.
5. Entire Agreement. This Agreement constitutes the entire agreement between
 the
parties.
---
org.abego.treelayout » org.abego.treelayout.core 1.0.3
COPYRIGHT and LICENSE:
BSD 3-Clause License
Copyright (c) 2011, abego Software GmbH, Germany (http://www.abego.org)
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---
org.antlr » antlr4-runtime 4.9.2
org.antlr » antlr-runtime 3.5.2
COPYRIGHT and LICENSE:
[The "BSD 3-clause license"]
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holder nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
=====
MIT License for codepointat.js from https://git.io/codepointat
MIT License for fromcodepoint.js from https://git.io/vDW1m
Copyright Mathias Bynens <https://mathiasbynens.be/>
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
---
org.antlr » ST4 4.3.1
COPYRIGHT and LICENSE:
[The "BSD license"]
Copyright (c) 2011-2013 Terence Parr
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. The name of the author may not be used to endorse or promote products
    derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---
org.apache.maven » maven-plugin-api 3.0.5
org.apache.maven » maven-project 2.2.1
COPYRIGHT: Copyright 2001-2018 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/maven/blob/master/LICENSE
---
org.codehaus.plexus » plexus-compiler-api 2.2
COPYRIGHT: Copyright 2001-2005 The Apache Software Foundation.
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0
---
org.sonatype.plexus » plexus-build-api 0.0.7
COPYRIGHT: Copyright (c) 2008 Sonatype, Inc. All rights reserved.
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0
                                 Apache License
                           Version 2.0, January 2004
```

```
                        http://www.apache.org/licenses/
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
  1. Definitions.
     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.
     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.
     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.
     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.
     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.
     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.
     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."
     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.
  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: Terence Parr / Component(s): ANTLR4 Java Runtime 4.9.3

```
=====================================================================
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
Use of this file is governed by the BSD 3-clause license that
can be found in the LICENSE.txt file in the project root.
====================================================================
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

Provider: Terence Parr / Component(s): StringTemplate 4.3.4

```
[The "BSD license"]
Copyright (c) 2011-2022 Terence Parr
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. The name of the author may not be used to endorse or promote products
    derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------
###########License.txt of 3rd party Component antlr.runtime 3.5.3
 ##############################
[The "BSD license"]
Copyright (c) 2013 Terence Parr
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. The name of the author may not be used to endorse or promote products
    derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
```

```
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Terracotta, Inc. / Component(s): Quartz Job Scheduler 2.5.0-rc1

```
**************
Quartz Copyright Notice

/*
 * All content copyright Terracotta, Inc., unless otherwise indicated. All
 rights reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not
 * use this file except in compliance with the License. You may obtain a
 copy
 * of the License at
 *
 *   http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 *
 */

**************
**************
Quartz License

    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
```

```
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

**************
**************
c3p0

/*
 * This library is free software; you can redistribute it and/or modify
 * it under the terms of EITHER:
 *
 *     1) The GNU Lesser General Public License (LGPL), version 2.1, as
 *        published by the Free Software Foundation
 *
```

```
 * OR
 *
 *     2) The Eclipse Public License (EPL), version 1.0
 *
 * You may choose which license to accept if you wish to redistribute
 * or modify this work. You may offer derivatives of this work
 * under the license you have chosen, or you may provide the same
 * choice of license which you have been offered here.
 *
 * This software is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
 *
 * You should have received copies of both LGPL v2.1 and EPL v1.0
 * along with this software; see the files LICENSE-EPL and LICENSE-LGPL.
 * If not, the text of these licenses are currently available at
 *
 * LGPL v2.1: http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
 *  EPL v1.0: http://www.eclipse.org/org/documents/epl-v10.php
 */

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT’S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
   distributed under this Agreement, and

b) in the case of each subsequent Contributor:

    i) changes to the Program, and

   ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates'
 from
a Contributor if it was added to the Program by such Contributor itself or
anyone acting on such Contributor’s behalf. Contributions do not include
additionsto the Program which: (i) are separate modules of software
 distributed
in conjunction with the Program under their own license agreement, and (ii)
 are
not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which
 are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.
```

```
2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free copyright license to
reproduce, prepare derivative works of, publicly display, publicly perform,
distribute and sublicense the Contribution of such Contributor, if any, and
 such
derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free patent license under
Licensed Patents to make, use, sell, offer to sell, import and otherwise
transfer the Contribution of such Contributor, if any, in source code and
object code form. This patent license shall apply to the combination of the
Contribution and the Program if, at the time the Contribution is added by
 the
Contributor, such addition of the Contribution causes such combination to
 be
covered by the Licensed Patents. The patent license shall not apply to any
other combinations which include the Contribution. No hardware per se is
licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to
its Contributions set forth herein, no assurances are provided by any
Contributor that the Program does not infringe the patent or other
 intellectual
property rights of any other entity. Each Contributor disclaims any
 liability
to Recipient for claims brought by any other entity based on infringement
 of
intellectual property rights or otherwise. As a condition to exercising the
rights and licenses granted hereunder, each Recipient hereby assumes sole
responsibility to secure any other intellectual property rights needed, if
 any.
For example, if a third party patent license is required to allow Recipient
 to
distribute the Program, it is Recipient’s responsibility to acquire that
license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
copyright rights in its Contribution, if any, to grant the copyright
 license
set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form
 under
its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

     i) effectively disclaims on behalf of all Contributors all warranties
 and
        conditions, express and implied, including warranties or conditions
 of
        title and non-infringement, and implied warranties or conditions of
        merchantability and fitness for a particular purpose;
```

```
    ii) effectively excludes on behalf of all Contributors all liability
 for
        damages, including direct, indirect, special, incidental and
        consequential damages, such as lost profits;

   iii) states that any provisions which differ from this Agreement are
        offered by that Contributor alone and not by any other party; and

    iv) states that source code for the Program is available from such
        Contributor, and informs licensees how to obtain it in a reasonable
        manner on or through a medium customarily used for software
 exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within
the Program.

Each Contributor must identify itself as the originator of its
 Contribution,
if any, in a manner that reasonably allows subsequent Recipients to
 identify
the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
 with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor
 who
includes the Program in a commercial product offering should do so in a
 manner
which does not create potential liability for other Contributors.
 Therefore,
if a Contributor includes the Program in a commercial product offering,
 such
Contributor ("Commercial Contributor") hereby agrees to defend and
 indemnify
every other Contributor ("Indemnified Contributor") against any losses,
 damages
and costs (collectively "Losses") arising from claims, lawsuits and other
 legal
actions brought by a third party against the Indemnified Contributor to the
extent caused by the acts or omissions of such Commercial Contributor in
connection with its distribution of the Program in a commercial product
offering. The obligations in this section do not apply to any claims or
 Losses
relating to any actual or alleged intellectual property infringement. In
 order
to qualify, an Indemnified Contributor must: a) promptly notify the
 Commercial
Contributor in writing of such claim, and b) allow the Commercial
 Contributor
to control, and cooperate with the Commercial Contributor in, the defense
 and
any related settlement negotiations. The Indemnified Contributor may
 participate
in any such claim at its own expense.
```

```
For example, a Contributor might include the Program in a commercial
 product
offering, Product X. That Contributor is then a Commercial Contributor. If
 that
Commercial Contributor then makes performance claims, or offers warranties
related to Product X, those performance claims and warranties are such
Commercial Contributor’s responsibility alone. Under this section, the
Commercial Contributor would have to defend claims against the other
Contributors related to those performance claims and warranties, and if a
 court
requires any other Contributor to pay any damages as a result, the
 Commercial
Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS
 OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
 TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of
 using
and distributing the Program and assumes all risks associated with its
exercise of rights under this Agreement , including but not limited to the
risks and costs of program errors, compliance with applicable laws, damage
 to
or loss of data, programs or equipment, and unavailability or interruption
 of
operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION
 LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
 ANY
WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY
 RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable
law, it shall not affect the validity or enforceability of the remainder of
 the
terms of this Agreement, and without further action by the parties hereto,
 such
provision shall be reformed to the minimum extent necessary to make such
provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program itself
(excluding combinations of the Program with other software or hardware)
infringes such Recipient’s patent(s), then such Recipient’s rights granted
under Section 2(b) shall terminate as of the date such litigation is filed.
```

```
All Recipient’s rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and
 does
not cure such failure in a reasonable period of time after becoming aware
 of
such noncompliance. If all Recipient’s rights under this Agreement
 terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient’s obligations under this
 Agreement
and any licenses granted by Recipient relating to the Program shall
 continue
and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right
 to
publish new versions (including revisions) of this Agreement from time to
 time.
No one other than the Agreement Steward has the right to modify this
 Agreement.
The Eclipse Foundation is the initial Agreement Steward. The Eclipse
 Foundation
may assign the responsibility to serve as the Agreement Steward to a
 suitable
separate entity. Each new version of the Agreement will be given a
distinguishing version number. The Program (including Contributions) may
 always
be distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to distribute the Program (including its
 Contributions)
under the new version. Except as expressly stated in Sections 2(a) and 2(b)
above, Recipient receives no rights or licenses to the intellectual property
 of
any Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
 under
this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to
 this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury
 trial
in any resulting litigation.

GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

       Preamble
```

```
The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
```

```
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.
```

```
Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
```

```
In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
```

```
6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
```

```
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
```

```
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

       NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

       END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries
```

```
If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!

**************
**************
mchange-commons-java

 * Copyright (C) 2015 Machinery For Change, Inc.
 * Author: Steve Waldman <swaldman@mchange.com>

/*
 * This library is free software; you can redistribute it and/or modify
 * it under the terms of EITHER:
 *
 *     1) The GNU Lesser General Public License (LGPL), version 2.1, as
 *        published by the Free Software Foundation
 *
 * OR
 *
 *     2) The Eclipse Public License (EPL), version 1.0
 *
 * You may choose which license to accept if you wish to redistribute
 * or modify this work. You may offer derivatives of this work
```

```
 * under the license you have chosen, or you may provide the same
 * choice of license which you have been offered here.
 *
 * This software is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
 *
 * You should have received copies of both LGPL v2.1 and EPL v1.0
 * along with this software; see the files LICENSE-EPL and LICENSE-LGPL.
 * If not, the text of these licenses are currently available at
 *
 * LGPL v2.1: http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html
 * EPL v1.0: http://www.eclipse.org/org/documents/epl-v10.php
 */

**************
**************
hikaricp

/*
 * Copyright (C) 2013, 2014 Brett Wooldridge
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

**************
**************
slf4j-api, slf4j-log4j12, slf4j-reload4j

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

MIT License

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
```

```
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**************
**************
reload4j

Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

License: Apache-2.0

**************
**************
jakarta.xml.bind-api

Notice -
Notices for Jakarta XML Binding
This content is produced and maintained by the Jakarta XML Binding project.

Project home: https://projects.eclipse.org/projects/ee4j.jaxb
Trademarks
Jakarta XML Binding is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Distribution License v. 1.0 which is available at
 http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code
The project maintains the following source code repositories:
 https://github.com/eclipse-ee4j/jaxb-api
 https://github.com/eclipse-ee4j/jaxb-tck

Third-party Content
 This project leverages the following third party content.

Apache River (3.0.0)
 License: Apache-2.0 AND BSD-3-Clause
ASM 7 (n/a)
 License: BSD-3-Clause
 Project: https://asm.ow2.io/
 Source: https://repository.ow2.org/nexus/#nexus-search;gav~org.ow2.asm~asm-
commons~~~~kw,versionexpand
JTHarness (5.0)
 License: (GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)
 Project: https://wiki.openjdk.java.net/display/CodeTools/JT+Harness
 Source: http://hg.openjdk.java.net/code-tools/jtharness/
normalize.css (3.0.2)
 License: MIT
 SigTest (n/a)
 License: GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Cryptography
Content may contain encryption software. The country in which you are
 currently may have restrictions on the import, possession, and use, and/
or re-export to another country, of encryption software. BEFORE using
```

```
 any encryption software, please check the country's laws, regulations
 and policies concerning the import, possession, or use, and re-export of
 encryption software, to see if this is permitted.

License - BSD 3-Clause "New" or "Revised" License
Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

**************
**************
jakarta.activation-api

Notice -
Notices for Jakarta Activation
This content is produced and maintained by Jakarta Activation project.

Project home: https://projects.eclipse.org/projects/ee4j.jaf
Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Distribution License v. 1.0, which is available at
 http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jaf

License - BSD 3-Clause "New" or "Revised" License
Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

**************
**************
```

Provider: The ANTLR Project / Component(s): ANTLR 4.8

```
[The "BSD 3-clause license"]
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holder nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====
```

```
MIT License for codepointat.js from https://git.io/codepointat
MIT License for fromcodepoint.js from https://git.io/vDW1m

Copyright Mathias Bynens <https://mathiasbynens.be/>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------------------
4th party depend.

com.ibm.icu » icu4j 61.1
https://github.com/unicode-org/icu/tree/release-61-1
COPYRIGHT: © 2016 and later: Unicode, Inc. and others.
LICENSE: MIT

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.


---
org.abego.treelayout.core 1.0.3
COPYRIGHT and LICENSE:
```

```
BSD 3-Clause License

Copyright (c) 2011, abego Software GmbH, Germany (http://www.abego.org)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
antlr4-runtime
COPYRIGHT:
Copyright (c) 2003-2008 Terence Parr. All rights reserved.
Copyright (c) 2008, Yahoo! Inc. All rights reserved.

Code licensed under the BSD License:
http://www.antlr.org/license.html

[The BSD License]
Copyright (c) 2012 Terence Parr and Sam Harwell
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the author nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
```

```
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



---
antlr-runtime 3.5.2
COPYRIGHT:
Copyright (c) 2003-2008 Terence Parr. All rights reserved.
Copyright (c) 2008, Yahoo! Inc. All rights reserved.

Code licensed under the BSD License:
http://www.antlr.org/license.html

[The BSD License]
Copyright (c) 2012 Terence Parr and Sam Harwell
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the author nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


---
org.antlr » ST4 4.3
COPYRIGHT and LICENSE:

[The "BSD license"]
Copyright (c) 2011-2013 Terence Parr
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
```

```
    documentation and/or other materials provided with the distribution.
 3. The name of the author may not be used to endorse or promote products
    derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Apache Software Foundation / Component(s): Ant 1.10.11

```
Apache Ant
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

The <sync> task is based on code Copyright (c) 2002, Landmark
Graphics Corp that has been kindly donated to the Apache Software
Foundation.


/*
 *                                 Apache License
 *                           Version 2.0, January 2004
 *                        http://www.apache.org/licenses/
 *
 *   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
 *
 *   1. Definitions.
 *
 *      "License" shall mean the terms and conditions for use, reproduction,
 *      and distribution as defined by Sections 1 through 9 of this
 document.
 *
 *      "Licensor" shall mean the copyright owner or entity authorized by
 *      the copyright owner that is granting the License.
 *
 *      "Legal Entity" shall mean the union of the acting entity and all
 *      other entities that control, are controlled by, or are under common
 *      control with that entity. For the purposes of this definition,
 *      "control" means (i) the power, direct or indirect, to cause the
 *      direction or management of such entity, whether by contract or
 *      otherwise, or (ii) ownership of fifty percent (50%) or more of the
 *      outstanding shares, or (iii) beneficial ownership of such entity.
 *
 *      "You" (or "Your") shall mean an individual or Legal Entity
 *      exercising permissions granted by this License.
 *
 *      "Source" form shall mean the preferred form for making
 modifications,
 *      including but not limited to software source code, documentation
 *      source, and configuration files.
 *
 *      "Object" form shall mean any form resulting from mechanical
 *      transformation or translation of a Source form, including but
```

```
*      not limited to compiled object code, generated documentation,
*      and conversions to other media types.
*
*      "Work" shall mean the work of authorship, whether in Source or
*      Object form, made available under the License, as indicated by a
*      copyright notice that is included in or attached to the work
*      (an example is provided in the Appendix below).
*
*      "Derivative Works" shall mean any work, whether in Source or Object
*      form, that is based on (or derived from) the Work and for which the
*      editorial revisions, annotations, elaborations, or other
modifications
*      represent, as a whole, an original work of authorship. For the
purposes
*      of this License, Derivative Works shall not include works that
remain
*      separable from, or merely link (or bind by name) to the interfaces
of,
*      the Work and Derivative Works thereof.
*
*      "Contribution" shall mean any work of authorship, including
*      the original version of the Work and any modifications or additions
*      to that Work or Derivative Works thereof, that is intentionally
*      submitted to Licensor for inclusion in the Work by the copyright
owner
*      or by an individual or Legal Entity authorized to submit on behalf
of
*      the copyright owner. For the purposes of this definition,
"submitted"
*      means any form of electronic, verbal, or written communication sent
*      to the Licensor or its representatives, including but not limited to
*      communication on electronic mailing lists, source code control
systems,
*      and issue tracking systems that are managed by, or on behalf of, the
*      Licensor for the purpose of discussing and improving the Work, but
*      excluding communication that is conspicuously marked or otherwise
*      designated in writing by the copyright owner as "Not a
Contribution."
*
*      "Contributor" shall mean Licensor and any individual or Legal Entity
*      on behalf of whom a Contribution has been received by Licensor and
*      subsequently incorporated within the Work.
*
*   2. Grant of Copyright License. Subject to the terms and conditions of
*      this License, each Contributor hereby grants to You a perpetual,
*      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
*      copyright license to reproduce, prepare Derivative Works of,
*      publicly display, publicly perform, sublicense, and distribute the
*      Work and such Derivative Works in Source or Object form.
*
*   3. Grant of Patent License. Subject to the terms and conditions of
*      this License, each Contributor hereby grants to You a perpetual,
*      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
*      (except as stated in this section) patent license to make, have
made,
*      use, offer to sell, sell, import, and otherwise transfer the Work,
*      where such license applies only to those patent claims licensable
*      by such Contributor that are necessarily infringed by their
*      Contribution(s) alone or by combination of their Contribution(s)
*      with the Work to which such Contribution(s) was submitted. If You
*      institute patent litigation against any entity (including a
*      cross-claim or counterclaim in a lawsuit) alleging that the Work
*      or a Contribution incorporated within the Work constitutes direct
*      or contributory patent infringement, then any patent licenses
```

```
*      granted to You under this License for that Work shall terminate
*      as of the date such litigation is filed.
*
*   4. Redistribution. You may reproduce and distribute copies of the
*      Work or Derivative Works thereof in any medium, with or without
*      modifications, and in Source or Object form, provided that You
*      meet the following conditions:
*
*      (a) You must give any other recipients of the Work or
*          Derivative Works a copy of this License; and
*
*      (b) You must cause any modified files to carry prominent notices
*          stating that You changed the files; and
*
*      (c) You must retain, in the Source form of any Derivative Works
*          that You distribute, all copyright, patent, trademark, and
*          attribution notices from the Source form of the Work,
*          excluding those notices that do not pertain to any part of
*          the Derivative Works; and
*
*      (d) If the Work includes a "NOTICE" text file as part of its
*          distribution, then any Derivative Works that You distribute must
*          include a readable copy of the attribution notices contained
*          within such NOTICE file, excluding those notices that do not
*          pertain to any part of the Derivative Works, in at least one
*          of the following places: within a NOTICE text file distributed
*          as part of the Derivative Works; within the Source form or
*          documentation, if provided along with the Derivative Works; or,
*          within a display generated by the Derivative Works, if and
*          wherever such third-party notices normally appear. The contents
*          of the NOTICE file are for informational purposes only and
*          do not modify the License. You may add Your own attribution
*          notices within Derivative Works that You distribute, alongside
*          or as an addendum to the NOTICE text from the Work, provided
*          that such additional attribution notices cannot be construed
*          as modifying the License.
*
*      You may add Your own copyright statement to Your modifications and
*      may provide additional or different license terms and conditions
*      for use, reproduction, or distribution of Your modifications, or
*      for any such Derivative Works as a whole, provided Your use,
*      reproduction, and distribution of the Work otherwise complies with
*      the conditions stated in this License.
*
*   5. Submission of Contributions. Unless You explicitly state otherwise,
*      any Contribution intentionally submitted for inclusion in the Work
*      by You to the Licensor shall be under the terms and conditions of
*      this License, without any additional terms or conditions.
*      Notwithstanding the above, nothing herein shall supersede or modify
*      the terms of any separate license agreement you may have executed
*      with Licensor regarding such Contributions.
*
*   6. Trademarks. This License does not grant permission to use the trade
*      names, trademarks, service marks, or product names of the Licensor,
*      except as required for reasonable and customary use in describing
the
*      origin of the Work and reproducing the content of the NOTICE file.
*
*   7. Disclaimer of Warranty. Unless required by applicable law or
*      agreed to in writing, Licensor provides the Work (and each
*      Contributor provides its Contributions) on an "AS IS" BASIS,
*      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
*      implied, including, without limitation, any warranties or conditions
*      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
 *      PARTICULAR PURPOSE. You are solely responsible for determining the
 *      appropriateness of using or redistributing the Work and assume any
 *      risks associated with Your exercise of permissions under this
 License.
 *
 *   8. Limitation of Liability. In no event and under no legal theory,
 *      whether in tort (including negligence), contract, or otherwise,
 *      unless required by applicable law (such as deliberate and grossly
 *      negligent acts) or agreed to in writing, shall any Contributor be
 *      liable to You for damages, including any direct, indirect, special,
 *      incidental, or consequential damages of any character arising as a
 *      result of this License or out of the use or inability to use the
 *      Work (including but not limited to damages for loss of goodwill,
 *      work stoppage, computer failure or malfunction, or any and all
 *      other commercial damages or losses), even if such Contributor
 *      has been advised of the possibility of such damages.
 *
 *   9. Accepting Warranty or Additional Liability. While redistributing
 *      the Work or Derivative Works thereof, You may choose to offer,
 *      and charge a fee for, acceptance of support, warranty, indemnity,
 *      or other liability obligations and/or rights consistent with this
 *      License. However, in accepting such obligations, You may act only
 *      on Your own behalf and on Your sole responsibility, not on behalf
 *      of any other Contributor, and only if You agree to indemnify,
 *      defend, and hold each Contributor harmless for any liability
 *      incurred by, or claims asserted against, such Contributor by reason
 *      of your accepting any such warranty or additional liability.
 *
 *   END OF TERMS AND CONDITIONS
 *
 *   APPENDIX: How to apply the Apache License to your work.
 *  Copyright 2021 The Apache Software Foundation
 *      To apply the Apache License to your work, attach the following
 *      boilerplate notice, with the fields enclosed by brackets "[]"
 *      replaced with your own identifying information. (Don't include
 *      the brackets!)  The text should be enclosed in the appropriate
 *      comment syntax for the file format. We also recommend that a
 *      file or class name and description of purpose be included on the
 *      same "printed page" as the copyright notice for easier
 *      identification within third-party archives.
 *
 *
 *
 *   Licensed under the Apache License, Version 2.0 (the "License");
 *   you may not use this file except in compliance with the License.
 *   You may obtain a copy of the License at
 *
 *       http://www.apache.org/licenses/LICENSE-2.0
 *
 *   Unless required by applicable law or agreed to in writing, software
 *   distributed under the License is distributed on an "AS IS" BASIS,
 *   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
 *   See the License for the specific language governing permissions and
 *   limitations under the License.
 */

W3C® SOFTWARE NOTICE AND LICENSE
http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the
 following
```

```
license. By obtaining, using and/or copying this work, you (the licensee)
 agree
that you have read, understood, and will comply with the following terms and
conditions.

Permission to copy, modify, and distribute this software and its
 documentation,
with or without modification, for any purpose and without fee or royalty is
hereby granted, provided that you include the following on ALL copies of the
software and documentation or portions thereof, including modifications:

  1. The full text of this NOTICE in a location viewable to users of the
     redistributed or derivative work.
  2. Any pre-existing intellectual property disclaimers, notices, or terms
     and conditions. If none exist, the W3C Software Short Notice should be
     included (hypertext is preferred, text is permitted) within the body
     of any redistributed or derivative code.
  3. Notice of any changes or modifications to the files, including the date
     changes were made. (We recommend you provide URIs to the location from
     which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS
 MAKE
NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT
 LIMITED
TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR
 THAT
THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY
PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR
 DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising
 or
publicity pertaining to the software without specific, written prior
 permission.
Title to copyright in this software and any associated documentation will at
all times remain with copyright holders.


____________________________________

This formulation of W3C's notice and license became active on December 31
 2002.
This version removes the copyright ownership notice such that this license
 can
be used with materials other than those owned by the W3C, reflects that
 ERCIM
is now a host of the W3C, includes references to this specific dated version
 of
the license, and removes the ambiguous grant of "use". Otherwise, this
 version
is the same as the previous version and is written so as to preserve the
 Free
Software Foundation's assessment of GPL compatibility and OSI's
 certification
under the Open Source Definition. Please see our Copyright FAQ for common
questions about using materials from our site, including specific terms and
conditions for packages like libwww, Amaya, and Jigsaw. Other questions
 about
this notice can be directed to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>
```

```
This license came from: http://www.megginson.com/SAX/copying.html
  However please note future versions of SAX may be covered
  under http://saxproject.org/?selected=pd

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for
XML), and release all of the SAX 2.0 source code, compiled code, and
documentation contained in this distribution into the Public Domain.
SAX comes with NO WARRANTY or guarantee of fitness for any
purpose.

David Megginson, david@megginson.com
2000-05-05
```

Provider: The Apache Software Foundation/ Component(s): Apache HTTP Server 2.4.6-88

```
Apache HTTP Server
Copyright 2019 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were developed at the National Center
for Supercomputing Applications (NCSA) at the University of
Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security
Inc. MD5 Message-Digest Algorithm, including various
modifications by Spyglass Inc., Carnegie Mellon University, and
Bell Communications Research, Inc (Bellcore).

This software contains code derived from the PCRE library pcreposix.c
source code, written by Philip Hazel, Copyright 1997-2004
by the University of Cambridge, England.

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): assertj-core 3.21.0

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): assertj-core 3.24.2

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Commons CLI 1.8.0

```
License:

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Copyright:
Apache Commons CLI
Copyright 2002-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
```

Provider: The Apache Software Foundation / Component(s): Commons Codec 1.14

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

COPYRIGHT NOTICE
=============
```

```
Apache Commons Codec
Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

===============================================================================

The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
```

Provider: The Apache Software Foundation / Component(s): Commons Codec 1.15

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

COPYRIGHT NOTICE
=============

Apache Commons Codec
Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

===============================================================================

The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
```

Provider: The Apache Software Foundation / Component(s): Commons Codec 1.17.1

```
-------------------------------Top Level
 License--------------------------------

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
```

```
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------------------------------------
----------------------------Top Level Copyright
 Notice------------------------

Apache Commons Codec
Copyright 2002-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

--------------------------------------------------------------------------------
```

Provider: The Apache Software Foundation / Component(s): Commons Collections 3839ecf

```
Top Level Component : commons-collections
Top Level Component License:

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Top Level Component Copyright:

Apache Commons Collections
Copyright 2001-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

Provider: The Apache Software Foundation / Component(s): Commons Collections 4.4

```
URL for License - http://www.apache.org/licenses/LICENSE-2.0
```

```
POM

  Licensed to the Apache Software Foundation (ASF) under one or more
   contributor license agreements.  See the NOTICE file distributed with
   this work for additional information regarding copyright ownership.
   The ASF licenses this file to You under the Apache License, Version 2.0
   (the "License"); you may not use this file except in compliance with
   the License.  You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific collectionsuage governing permissions
 and
   limitations under the License.

NOTICE

Apache Commons Collections
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


LICENSE


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Commons Collections 4.5.0-M2

```
License: Apache 2.0

 ./LICENSE.txt

                                 Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------
```

```
/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements.  See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License.  You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

-------------- Separator --------------

 ./NOTICE.txt

Apache Commons Collections
Copyright 2001-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

-------------- Separator --------------
```

Provider: The Apache Software Foundation / Component(s): Commons Compress 1.18

```
Commons Compress 1.18

COPYRIGHT: Copyright 2002-2018 The Apache Software Foundation
LICENSE: Apache 2.0

                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS




==============================================
4P Dependencies:


----------------------------------------------
From Notice File:

The files in the package org.apache.commons.compress.archivers.sevenz
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (http://www.7-zip.org/sdk.html)

Anyone is free to copy, modify, publish, use, compile, sell, or distribute
 the original LZMA SDK code, either in source code form or as a compiled
 binary, for any purpose, commercial or non-commercial, and by any means.
```

Provider: The Apache Software Foundation / Component(s): Commons Compress 1.2.0

```
Commons Compress 1.18

COPYRIGHT: Copyright 2002-2018 The Apache Software Foundation
LICENSE: Apache 2.0

                              Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS



==============================================
4P Dependencies:


----------------------------------------------
From Notice File:

The files in the package org.apache.commons.compress.archivers.sevenz
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (http://www.7-zip.org/sdk.html)

Anyone is free to copy, modify, publish, use, compile, sell, or distribute
 the original LZMA SDK code, either in source code form or as a compiled
 binary, for any purpose, commercial or non-commercial, and by any means.
```

Provider: The Apache Software Foundation / Component(s): Commons Compress 1.21

```
Commons Compress 1.20

   Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

_____________________________________________

4p Dependencies and Notices:

Apache Commons Compress
Copyright 2002-2020 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation
 (https://www.apache.org/).

---

The files in the package org.apache.commons.compress.archivers.sevenz
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/), which has
 been placed in the public domain:

"LZMA SDK is placed in the public domain." (http://www.7-zip.org/sdk.html)

---

The test file lbzip2_32767.bz2 has been copied from libbzip2's source
repository:

This program, "bzip2", the associated library "libbzip2", and all
 documentation, are copyright (C) 1996-2019 Julian R Seward.  All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software.  If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED
 WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
```

```
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN
 NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@acm.org
```

Provider: The Apache Software Foundation / Component(s): Commons Compress 1.24.0

```
Apache License
                           Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
```

```
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
```

```
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------- Copyright notices --------------------------
Notice:

Apache Commons Compress
Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

---

The files in the package org.apache.commons.compress.archivers.sevenz
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (http://www.7-zip.org/sdk.html)

---

The test file lbzip2_32767.bz2 has been copied from libbzip2's source
repository:

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2019 Julian R Seward.  All
```

```
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software.  If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@acm.org
```

Provider: The Apache Software Foundation / Component(s): Commons CSV 1.9.0

```
Apache Commons CSV
Copyright 2005-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

........................................


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Commons DBCP 2.8.0

```
Apache Commons Pool
Copyright 2001-2019 The Apache Software Foundation

Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation

Apache Commons DBCP
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
```

```
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
```

```
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Commons IO 2.13.0

```
Apache Commons IO
Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
--
Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

Provider: The Apache Software Foundation / Component(s): Commons IO 2.14.0

```
Apache Commons IO
Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).Jakarta Servlet
 4.0.4
--
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
```

```
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
```

```
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

Provider: The Apache Software Foundation / Component(s): Commons IO 2.15.1

```
Apache Commons IO
Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
--
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
```

```
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
```

```
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

Provider: The Apache Software Foundation / Component(s): Commons IO 2.7

```
Apache Commons IO
Copyright 2002-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Commons IO 2.8.0

```
Apache Commons IO
Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
```

```
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
```

```
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
```

```
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Commons Lang 3.12.0

```
NOTICE:
Apache Commons Lang
Copyright 2001-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


LICENSE: Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
```

```
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
```

```
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
 limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Commons Lang 3.13.0

```
NOTICE:
Apache Commons Lang
Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).


LICENSE: Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
 limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Commons Lang 3.14.0

```
Copyright: The Apache Software Foundation
License: Apache 2.0

 ./LICENSE.txt

                                 Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------

 ./NOTICE.txt

Apache Commons Lang
Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

-------------- Separator --------------
```

Provider: The Apache Software Foundation / Component(s): Commons Lang 3.8.1

```
License text from https://github.com/apache/commons-lang:

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------
License notice from: https://github.com/apache/commons-lang
Apache Commons Lang
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

Provider: The Apache Software Foundation / Component(s): Commons Logging 1.2-0548efb

```
Apache Commons Logging
Copyright 2003-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

  Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
 limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Commons Logging 1.3.0

```
Apache Commons Logging
Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

  Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
```

```
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
```

```
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
 limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Commons Net 3.9.0

```
Apache Commons Net
Copyright 2001-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).



Licenses Text:

/*
 *                                 Apache License
 *                           Version 2.0, January 2004
 *                        http://www.apache.org/licenses/
 *
 *   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
 *
 *   1. Definitions.
 *
 *      "License" shall mean the terms and conditions for use, reproduction,
 *      and distribution as defined by Sections 1 through 9 of this
 document.
 *
 *      "Licensor" shall mean the copyright owner or entity authorized by
 *      the copyright owner that is granting the License.
 *
 *      "Legal Entity" shall mean the union of the acting entity and all
 *      other entities that control, are controlled by, or are under common
 *      control with that entity. For the purposes of this definition,
 *      "control" means (i) the power, direct or indirect, to cause the
```

```
*      direction or management of such entity, whether by contract or
*      otherwise, or (ii) ownership of fifty percent (50%) or more of the
*      outstanding shares, or (iii) beneficial ownership of such entity.
*
*      "You" (or "Your") shall mean an individual or Legal Entity
*      exercising permissions granted by this License.
*
*      "Source" form shall mean the preferred form for making
modifications,
*      including but not limited to software source code, documentation
*      source, and configuration files.
*
*      "Object" form shall mean any form resulting from mechanical
*      transformation or translation of a Source form, including but
*      not limited to compiled object code, generated documentation,
*      and conversions to other media types.
*
*      "Work" shall mean the work of authorship, whether in Source or
*      Object form, made available under the License, as indicated by a
*      copyright notice that is included in or attached to the work
*      (an example is provided in the Appendix below).
*
*      "Derivative Works" shall mean any work, whether in Source or Object
*      form, that is based on (or derived from) the Work and for which the
*      editorial revisions, annotations, elaborations, or other
modifications
*      represent, as a whole, an original work of authorship. For the
purposes
*      of this License, Derivative Works shall not include works that
remain
*      separable from, or merely link (or bind by name) to the interfaces
of,
*      the Work and Derivative Works thereof.
*
*      "Contribution" shall mean any work of authorship, including
*      the original version of the Work and any modifications or additions
*      to that Work or Derivative Works thereof, that is intentionally
*      submitted to Licensor for inclusion in the Work by the copyright
owner
*      or by an individual or Legal Entity authorized to submit on behalf
of
*      the copyright owner. For the purposes of this definition,
"submitted"
*      means any form of electronic, verbal, or written communication sent
*      to the Licensor or its representatives, including but not limited to
*      communication on electronic mailing lists, source code control
systems,
*      and issue tracking systems that are managed by, or on behalf of, the
*      Licensor for the purpose of discussing and improving the Work, but
*      excluding communication that is conspicuously marked or otherwise
*      designated in writing by the copyright owner as "Not a
Contribution."
*
*      "Contributor" shall mean Licensor and any individual or Legal Entity
*      on behalf of whom a Contribution has been received by Licensor and
*      subsequently incorporated within the Work.
*
*   2. Grant of Copyright License. Subject to the terms and conditions of
*      this License, each Contributor hereby grants to You a perpetual,
*      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
*      copyright license to reproduce, prepare Derivative Works of,
*      publicly display, publicly perform, sublicense, and distribute the
*      Work and such Derivative Works in Source or Object form.
*
```

```
*   3. Grant of Patent License. Subject to the terms and conditions of
*      this License, each Contributor hereby grants to You a perpetual,
*      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
*      (except as stated in this section) patent license to make, have
made,
*      use, offer to sell, sell, import, and otherwise transfer the Work,
*      where such license applies only to those patent claims licensable
*      by such Contributor that are necessarily infringed by their
*      Contribution(s) alone or by combination of their Contribution(s)
*      with the Work to which such Contribution(s) was submitted. If You
*      institute patent litigation against any entity (including a
*      cross-claim or counterclaim in a lawsuit) alleging that the Work
*      or a Contribution incorporated within the Work constitutes direct
*      or contributory patent infringement, then any patent licenses
*      granted to You under this License for that Work shall terminate
*      as of the date such litigation is filed.
*
*   4. Redistribution. You may reproduce and distribute copies of the
*      Work or Derivative Works thereof in any medium, with or without
*      modifications, and in Source or Object form, provided that You
*      meet the following conditions:
*
*      (a) You must give any other recipients of the Work or
*          Derivative Works a copy of this License; and
*
*      (b) You must cause any modified files to carry prominent notices
*          stating that You changed the files; and
*
*      (c) You must retain, in the Source form of any Derivative Works
*          that You distribute, all copyright, patent, trademark, and
*          attribution notices from the Source form of the Work,
*          excluding those notices that do not pertain to any part of
*          the Derivative Works; and
*
*      (d) If the Work includes a "NOTICE" text file as part of its
*          distribution, then any Derivative Works that You distribute must
*          include a readable copy of the attribution notices contained
*          within such NOTICE file, excluding those notices that do not
*          pertain to any part of the Derivative Works, in at least one
*          of the following places: within a NOTICE text file distributed
*          as part of the Derivative Works; within the Source form or
*          documentation, if provided along with the Derivative Works; or,
*          within a display generated by the Derivative Works, if and
*          wherever such third-party notices normally appear. The contents
*          of the NOTICE file are for informational purposes only and
*          do not modify the License. You may add Your own attribution
*          notices within Derivative Works that You distribute, alongside
*          or as an addendum to the NOTICE text from the Work, provided
*          that such additional attribution notices cannot be construed
*          as modifying the License.
*
*      You may add Your own copyright statement to Your modifications and
*      may provide additional or different license terms and conditions
*      for use, reproduction, or distribution of Your modifications, or
*      for any such Derivative Works as a whole, provided Your use,
*      reproduction, and distribution of the Work otherwise complies with
*      the conditions stated in this License.
*
*   5. Submission of Contributions. Unless You explicitly state otherwise,
*      any Contribution intentionally submitted for inclusion in the Work
*      by You to the Licensor shall be under the terms and conditions of
*      this License, without any additional terms or conditions.
*      Notwithstanding the above, nothing herein shall supersede or modify
*      the terms of any separate license agreement you may have executed
```

```
*      with Licensor regarding such Contributions.
*
*   6. Trademarks. This License does not grant permission to use the trade
*      names, trademarks, service marks, or product names of the Licensor,
*      except as required for reasonable and customary use in describing
the
*      origin of the Work and reproducing the content of the NOTICE file.
*
*   7. Disclaimer of Warranty. Unless required by applicable law or
*      agreed to in writing, Licensor provides the Work (and each
*      Contributor provides its Contributions) on an "AS IS" BASIS,
*      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
*      implied, including, without limitation, any warranties or conditions
*      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
*      PARTICULAR PURPOSE. You are solely responsible for determining the
*      appropriateness of using or redistributing the Work and assume any
*      risks associated with Your exercise of permissions under this
License.
*
*   8. Limitation of Liability. In no event and under no legal theory,
*      whether in tort (including negligence), contract, or otherwise,
*      unless required by applicable law (such as deliberate and grossly
*      negligent acts) or agreed to in writing, shall any Contributor be
*      liable to You for damages, including any direct, indirect, special,
*      incidental, or consequential damages of any character arising as a
*      result of this License or out of the use or inability to use the
*      Work (including but not limited to damages for loss of goodwill,
*      work stoppage, computer failure or malfunction, or any and all
*      other commercial damages or losses), even if such Contributor
*      has been advised of the possibility of such damages.
*
*   9. Accepting Warranty or Additional Liability. While redistributing
*      the Work or Derivative Works thereof, You may choose to offer,
*      and charge a fee for, acceptance of support, warranty, indemnity,
*      or other liability obligations and/or rights consistent with this
*      License. However, in accepting such obligations, You may act only
*      on Your own behalf and on Your sole responsibility, not on behalf
*      of any other Contributor, and only if You agree to indemnify,
*      defend, and hold each Contributor harmless for any liability
*      incurred by, or claims asserted against, such Contributor by reason
*      of your accepting any such warranty or additional liability.
*
*   END OF TERMS AND CONDITIONS
*
*   APPENDIX: How to apply the Apache License to your work.
*
*      To apply the Apache License to your work, attach the following
*      boilerplate notice, with the fields enclosed by brackets "[]"
*      replaced with your own identifying information. (Don't include
*      the brackets!)  The text should be enclosed in the appropriate
*      comment syntax for the file format. We also recommend that a
*      file or class name and description of purpose be included on the
*      same "printed page" as the copyright notice for easier
*      identification within third-party archives.
*
*   Copyright [yyyy] [name of copyright owner]
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*       http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
```

```
 *   distributed under the License is distributed on an "AS IS" BASIS,
 *   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
 *   See the License for the specific language governing permissions and
 *   limitations under the License.
 */
```

Provider: The Apache Software Foundation / Component(s): Commons Text 1.11.0

```
Copyright: The Apache Software Foundation
License: Apache 2.0

 ./LICENSE.txt

                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
```

```
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------

 ./NOTICE.txt

Apache Commons Text
Copyright 2014-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

-------------- Separator --------------



Dependency: org.apache.commons:commons-lang3
Copyright: The Apache Software Foundation
License: Apache 2.0

 ./LICENSE.txt

Apache 2.0 ( same as org.apache.commons:commons-text)

-------------- Separator --------------

 ./NOTICE.txt

Apache Commons Lang
Copyright 2001-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).


-------------- Separator --------------
```

Provider: The Apache Software Foundation / Component(s): Commons Text 1.6

```
http://www.apache.org/licenses/


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
```

```
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

https://raw.githubusercontent.com/apache/commons-text/commons-text-1.1/
NOTICE.txt

Apache Commons Text
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

Provider: The Apache Software Foundation / Component(s): Commons Validator 1.8.0

```
commons validator

COPYRIGHT:

Apache Commons Validator
Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

LICENSE: Apache 2.0

                           Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

==========================
4th Party Dependencies:
==========================

commons-beanutils

Apache Commons BeanUtils
Copyright 2000-2019 The Apache Software Foundation
```

```
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


---
commons-collections

Apache Commons Collections
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

---
commons-digester

Apache Commons Digester
Copyright 2001-2010 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

---
commons-logging

Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

Provider: The Apache Software Foundation / Component(s): Commons Validator 1.9.0

```



commons validator

COPYRIGHT:

Apache Commons Validator
Copyright 2002-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).


LICENSE: Apache 2.0

                           Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
==========================
4th Party Dependencies:
==========================

commons-beanutils

Apache Commons BeanUtils
Copyright 2000-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).


---
commons-collections

Apache Commons Collections
Copyright 2001-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

---
commons-digester

Apache Commons Digester
Copyright 2001-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

---
commons-logging

Apache Commons Logging
Copyright 2001-2024 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
```

Provider: The Apache Software Foundation / Component(s): datasketches 4.0.1

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
```

```
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


APPENDIX A: How to apply the Apache License to your work.

    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
    identification within third-party archives.
    ------------------------------------------------------------
    Copyright [yyyy] [name of copyright owner]

    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at

        http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.
    ------------------------------------------------------------


APPENDIX B: Additional licenses relevant to this product.
```

```
   This product includes a number of source files with code that has been
   adapted from 3rd party sources including sources that may be subject
   to different copyright notices and license terms. Your use of
   the source code for these subcomponents is subject to the terms and
   conditions of the following licenses.



   ==============================================================
   MIT License
   ==============================================================
   Original source code:
     https://github.com/benjaminjack/python_cpp_example
   --------------------------------------------------------------
   Copyright (c) 2017 Benjamin R. Jack

   MIT License  (https://opensource.org/licenses/MIT):

   Permission is hereby granted, free of charge, to any person
   obtaining a copy of this software and associated documentation
   files (the "Software"), to deal in the Software without restriction,
   including without limitation the rights to use, copy, modify, merge,
   publish, distribute, sublicense, and/or sell copies of the Software,
   and to permit persons to whom the Software is furnished to do so,
   subject to the following conditions:

   The above copyright notice and this permission notice shall be
   included in all copies or substantial portions of the Software.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
   EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
   OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
   NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
   BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
   ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
   CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
   SOFTWARE.
   --------------------------------------------------------------
   Code locations:
     * https://github.com/apache/datasketches-cpp/blob/master/setup.py
   that is adapted from the above.



   ==============================================================
   Boost License  (https://www.boost.org/LICENSE_1_0.txt)
   ==============================================================
   Original source:
      https://github.com/catchorg/Catch2/blob/v2.x/LICENSE.txt

   Boost Software License - Version 1.0 - August 17th, 2003

   Permission is hereby granted, free of charge, to any person or
organization
   obtaining a copy of the software and accompanying documentation covered
by
   this license (the "Software") to use, reproduce, display, distribute,
   execute, and transmit the Software, and to prepare derivative works of
the
   Software, and to permit third-parties to whom the Software is furnished
to
   do so, all subject to the following:
```

```
   The copyright notices in the Software and this entire statement,
including
   the above license grant, this restriction and the following disclaimer,
   must be included in all copies of the Software, in whole or in part, and
   all derivative works of the Software, unless such copies or derivative
   works are solely in the form of machine-executable object code generated
by
   a source language processor.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR
   IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
   FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO
EVENT
   SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE
LIABLE
   FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR
OTHERWISE,
   ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER
   DEALINGS IN THE SOFTWARE.
   ----------------------------------------------------------------
   Code Locations:
   Found in the Catch2 unit test code that is downloaded from github.com as
part
   of CMake configuration if configured to build tests.


   ================================================================
   BSD License
   ================================================================
   Original source code:
      https://github.com/pybind/pybind11/blob/master/LICENSE

   Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights
reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
met:

   1. Redistributions of source code must retain the above copyright
notice, this
      list of conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above copyright
notice,
      this list of conditions and the following disclaimer in the
documentation
      and/or other materials provided with the distribution.

   3. Neither the name of the copyright holder nor the names of its
contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND
   ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
   DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE
```

```
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR
    SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
    OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
    ---------------------------------------------------------------
    Code Locations:
    Found only in the convenience binaries distributed from PyPI, which rely
    on pybind11 code during compilation.


    ===============================================================
    Public Domain
    ===============================================================
    Original source code:
       https://github.com/aappleby/smhasher/blob/master/src/MurmurHash3.cpp
       Placed in the Public Domain by Austin Appleby

    Code Locations:
      common/include/MurmurHash3.h
    that is adapted from the above.
    ---------------------------------------------------------------
    Original source code:
      * https://graphics.stanford.edu/~seander/bithacks.html
      * Placed in the Public Domain by Sean Eron Anderson

    Code Locations:
      * common/include/ceiling_power_of_2.hpp
    that is adapted from the above.

---------------------------- Fourth-party information ----------------------

   numpy, BSD License

   BSD License

   Copyright (c) 2005-2022, NumPy Developers.

   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

       * Redistributions of source code must retain the above copyright
          notice, this list of conditions and the following disclaimer.

       * Redistributions in binary form must reproduce the above
          copyright notice, this list of conditions and the following
          disclaimer in the documentation and/or other materials provided
          with the distribution.

       * Neither the name of the NumPy Developers nor the names of any
          contributors may be used to endorse or promote products derived
          from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  ----

  This binary distribution of NumPy also bundles the following software:


  Name: OpenBLAS
  Files: extra-dll\libopenb*.dll
  Description: bundled as a dynamically linked library
  Availability: https://github.com/xianyi/OpenBLAS/
  License: 3-clause BSD
    Copyright (c) 2011-2014, The OpenBLAS Project
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

       1. Redistributions of source code must retain the above copyright
          notice, this list of conditions and the following disclaimer.

       2. Redistributions in binary form must reproduce the above copyright
          notice, this list of conditions and the following disclaimer in
          the documentation and/or other materials provided with the
          distribution.
       3. Neither the name of the OpenBLAS project nor the names of
          its contributors may be used to endorse or promote products
          derived from this software without specific prior written
          permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS"
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE
    ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
BE
    LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR
    SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY,
    OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE
    USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.


  Name: LAPACK
  Files: extra-dll\libopenb*.dll
  Description: bundled in OpenBLAS
```

```
  Availability: https://github.com/xianyi/OpenBLAS/
  License 3-clause BSD
    Copyright (c) 1992-2013 The University of Tennessee and The University
                            of Tennessee Research Foundation.  All rights
                            reserved.
    Copyright (c) 2000-2013 The University of California Berkeley. All
                            rights reserved.
    Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                            reserved.

    $COPYRIGHT$

    Additional copyrights may follow

    $HEADER$

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

    - Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer listed
      in this license in the documentation and/or other materials
      provided with the distribution.

    - Neither the name of the copyright holders nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

    The copyright holders provide no reassurances that the source code
    provided does not infringe any patent, copyright, or any other
    intellectual property rights of third parties.  The copyright holders
    disclaim any liability to any recipient for claims brought against
    recipient by any third party for infringement of that parties
    intellectual property rights.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



--------------------------------------------------------------------------------
  LICENSES_bundled.txt

--------------------------------------------------------------------------------

  The NumPy repository and source distributions bundle several libraries
that are
  compatibly licensed.  We list these here.

  Name: lapack-lite
  Files: numpy/linalg/lapack_lite/*
```

```
  License: BSD-3-Clause
    For details, see numpy/linalg/lapack_lite/LICENSE.txt

  Name: tempita
  Files: tools/npy_tempita/*
  License: MIT
    For details, see tools/npy_tempita/license.txt

  Name: dragon4
  Files: numpy/core/src/multiarray/dragon4.c
  License: MIT
    For license text, see numpy/core/src/multiarray/dragon4.c

  Name: libdivide
  Files: numpy/core/include/numpy/libdivide/*
  License: Zlib
    For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

  --------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
--------------------

--------------------------------------------------------------------------------
  lapack-lite
  Copyright (c) 1992-2022 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2022 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                          reserved.

  Additional copyrights may follow

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  ---------------------------------------------------------------------------
  tempita

  Copyright (c) 2022 Ian Bicking and Contributors

  Permission is hereby granted, free of charge, to any person obtaining
  a copy of this software and associated documentation files (the
  "Software"), to deal in the Software without restriction, including
  without limitation the rights to use, copy, modify, merge, publish,
  distribute, sublicense, and/or sell copies of the Software, and to
  permit persons to whom the Software is furnished to do so, subject to
  the following conditions:

  The above copyright notice and this permission notice shall be
  included in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


-----------------------------------------------------------------------------
  dragon4
    Copyright (c) 2022 Ryan Juckett

    Permission is hereby granted, free of charge, to any person obtaining a
copy
    of this software and associated documentation files (the "Software"),
to
    deal in the Software without restriction, including without limitation
the
    rights to use, copy, modify, merge, publish, distribute, sublicense,
andor
    sell copies of the Software, and to permit persons to whom the Software
is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS
    IN THE SOFTWARE.


-------------------------------------------------------------------------------
  libdivide
```

```
  zlib License
    Copyright (C) 2010 - 2022 ridiculous_fish,
<libdivide@ridiculousfish.com>
    Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

    This software is provided 'as-is', without any express or implied
    warranty.  In no event will the authors be held liable for any damages
    arising from the use of this software.

    Permission is granted to anyone to use this software for any purpose,
    including commercial applications, and to alter it and redistribute it
    freely, subject to the following restrictions:

    1. The origin of this software must not be misrepresented; you must not
       claim that you wrote the original software. If you use this software
       in a product, an acknowledgment in the product documentation would
be
       appreciated but is not required.
    2. Altered source versions must be plainly marked as such, and must not
be
       misrepresented as being the original software.
    3. This notice may not be removed or altered from any source
distribution.


--------------------------------------------------------------------------------
  LICENSES_bundled in different directories:

--------------------------------------------------------------------------------

  The NumPy repository and source distributions bundle several libraries
that are
  compatibly licensed.  We list these here.

  Name: SPLITMIX64
  Files: /numpy/blob/numpy/random/src/splitmix64/*
  License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the
3-clause BSD License.
  For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

  Name: SFC64
  Files: /numpy/blob/numpy/random/src/sfc64/*
  License: MIT
  For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

  Name: PHILOX
  Files: /numpy/blob/numpy/random/src/philox/*
  License: D. E. Shaw Research
  For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

  Name: PCG64
  Files: /numpy/blob/numpy/random/src/pcg64/*
  License: MIT
  For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

  Name: MT19937
  Files: /numpy/blob/numpy/random/src/mt19937/*
  License: MIT
  For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

  Name: Julia
  Files: /numpy/blob/numpy/random/src/distributions/*
```

```
  License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
  For license text, see/numpy/blob/numpy/random/src/distributions/
LICENSE.md

  Name: Random
  Files: /numpy/blob/numpy/random/*
  License: dual-licensed under the The University of Illinois/NCSA Open
 Source License (NCSA) and The 3-Clause BSD License
  For license text, see/numpy/blob/numpy/random/LICENSE.md

  Name: nympy.core.ma
  Files: /numpy/blob/numpy/ma/*
  License: University of Georgia and Pierre G.F. Gerard-Marchant
  For license text, see /numpy/blob/numpy/ma/LICENSE

  --------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------

 ------------------------------------------------------------------------------------------

  Name: SPLITMIX64

  Written in 2015 by Sebastiano Vigna (vigna@acm.org)

  To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

  See http://creativecommons.org/publicdomain/zero/1.0/.


 ------------------------------------------------------------------------------------------

  Name: SFC64

  © 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

  The MIT License

  Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

  https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

  Copyright (c) 2018 Melissa E. O'Neill

  Permission is hereby granted, free of charge, to any person obtaining a
 copy of this software and associated documentation files (the "Software"),
 to deal in the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included
 in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
--------------------------------------------------------------------------------
  Name: PHILOX

  Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

  Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

     - Redistributions of source code must retain the above copyright
notice, this list of conditions, and the following disclaimer.

     -  Redistributions in binary form must reproduce the above copyright
notice, this list of conditions, and the following disclaimer in the
documentation and/or other materials provided with the distribution.

      - Neither the name of D. E. Shaw Research nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
  Name: PCG64

  The MIT License

  PCG Random Number Generation for C.

  Copyright 2014 Melissa O'Neill oneill@pcg-random.org

  Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------

  Name: MT19937
```

```
  Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

  The rk_random and rk_seed functions algorithms and the original design of
the Mersenne Twister RNG:

  Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All
rights reserved.

  Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

     -  Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

     -  Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

      - The names of its contributors may not be used to endorse or
promote products derived from this software without specific prior written
permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  Original algorithm for the implementation of rk_interval function from
Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
by Magnus Jonsson.

  Constants used in the rk_double implementation by Isaku Wada.

  Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------

  Name: Julia
```

```
  The ziggurat methods were derived from Julia.

  Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah,
and other contributors:

  https://github.com/JuliaLang/julia/contributors

  Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------

  Name: Random

  NCSA Open Source License

  Copyright (c) 2019 Kevin Sheppard. All rights reserved.

  Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

  Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal with the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

  Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimers.

  Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimers in the documentation
and/or other materials provided with the distribution.

  Neither the names of Kevin Sheppard, nor the names of any contributors
may be used to endorse or promote products derived from this Software
without specific prior written permission.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS WITH THE SOFTWARE.

  3-Clause BSD License
```

```
  Copyright (c) 2019 Kevin Sheppard. All rights reserved.

  Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

      - Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

      - Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

     - Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  Components

  Many parts of this module have been derived from original sources, often
the algorithm's designer. Component licenses are located with the component
code.


--------------------------------------------------------------------------------

  Name: nympy.core.ma

  Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
  All rights reserved.
  Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

       * Redistributions of source code must retain the above copyright
         notice, this list of conditions and the following disclaimer.
       * Redistributions in binary form must reproduce the above copyright
         notice, this list of conditions and the following disclaimer in
the
         documentation and/or other materials provided with the
distribution.
       * Neither the name of the University of Georgia nor the
          names of its contributors may be used to endorse or promote
products
          derived from this software without specific prior written
permission.

   THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY
   EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
```

```
   DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY
   DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES
   (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES;
   LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND
   ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS
   SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------------------------------------------------------------
```

Provider: The Apache Software Foundation / Component(s): fugue 0.8.7

```
==========================================================================

------------------------------- Top-level license --------------------------

                            Apache License
                      Version 2.0, January 2004
                   http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity authorized by
  the copyright owner that is granting the License.

  "Legal Entity" shall mean the union of the acting entity and all
  other entities that control, are controlled by, or are under common
  control with that entity. For the purposes of this definition,
  "control" means (i) the power, direct or indirect, to cause the
  direction or management of such entity, whether by contract or
  otherwise, or (ii) ownership of fifty percent (50%) or more of the
  outstanding shares, or (iii) beneficial ownership of such entity.

  "You" (or "Your") shall mean an individual or Legal Entity
  exercising permissions granted by this License.

  "Source" form shall mean the preferred form for making modifications,
  including but not limited to software source code, documentation
  source, and configuration files.

  "Object" form shall mean any form resulting from mechanical
  transformation or translation of a Source form, including but
  not limited to compiled object code, generated documentation,
  and conversions to other media types.

  "Work" shall mean the work of authorship, whether in Source or
  Object form, made available under the License, as indicated by a
  copyright notice that is included in or attached to the work
  (an example is provided in the Appendix below).
```

```
   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of
   the copyright owner. For the purposes of this definition, "submitted"
   means any form of electronic, verbal, or written communication sent
   to the Licensor or its representatives, including but not limited to
   communication on electronic mailing lists, source code control systems,
   and issue tracking systems that are managed by, or on behalf of, the
   Licensor for the purpose of discussing and improving the Work, but
   excluding communication that is conspicuously marked or otherwise
   designated in writing by the copyright owner as "Not a Contribution."

   "Contributor" shall mean Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
```

```
      the Derivative Works; and

  (d) If the Work includes a "NOTICE" text file as part of its
      distribution, then any Derivative Works that You distribute must
      include a readable copy of the attribution notices contained
      within such NOTICE file, excluding those notices that do not
      pertain to any part of the Derivative Works, in at least one
      of the following places: within a NOTICE text file distributed
      as part of the Derivative Works; within the Source form or
      documentation, if provided along with the Derivative Works; or,
      within a display generated by the Derivative Works, if and
      wherever such third-party notices normally appear. The contents
      of the NOTICE file are for informational purposes only and
      do not modify the License. You may add Your own attribution
      notices within Derivative Works that You distribute, alongside
      or as an addendum to the NOTICE text from the Work, provided
      that such additional attribution notices cannot be construed
      as modifying the License.

  You may add Your own copyright statement to Your modifications and
  may provide additional or different license terms and conditions
  for use, reproduction, or distribution of Your modifications, or
  for any such Derivative Works as a whole, provided Your use,
  reproduction, and distribution of the Work otherwise complies with
  the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
  any Contribution intentionally submitted for inclusion in the Work
  by You to the Licensor shall be under the terms and conditions of
  this License, without any additional terms or conditions.
  Notwithstanding the above, nothing herein shall supersede or modify
  the terms of any separate license agreement you may have executed
  with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
  names, trademarks, service marks, or product names of the Licensor,
  except as required for reasonable and customary use in describing the
  origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
  agreed to in writing, Licensor provides the Work (and each
  Contributor provides its Contributions) on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
  implied, including, without limitation, any warranties or conditions
  of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
  PARTICULAR PURPOSE. You are solely responsible for determining the
  appropriateness of using or redistributing the Work and assume any
  risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
  whether in tort (including negligence), contract, or otherwise,
  unless required by applicable law (such as deliberate and grossly
  negligent acts) or agreed to in writing, shall any Contributor be
  liable to You for damages, including any direct, indirect, special,
  incidental, or consequential damages of any character arising as a
  result of this License or out of the use or inability to use the
  Work (including but not limited to damages for loss of goodwill,
  work stoppage, computer failure or malfunction, or any and all
  other commercial damages or losses), even if such Contributor
  has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
  the Work or Derivative Works thereof, You may choose to offer,
  and charge a fee for, acceptance of support, warranty, indemnity,
```

```
  or other liability obligations and/or rights consistent with this
  License. However, in accepting such obligations, You may act only
  on Your own behalf and on Your sole responsibility, not on behalf
  of any other Contributor, and only if You agree to indemnify,
  defend, and hold each Contributor harmless for any liability
  incurred by, or claims asserted against, such Contributor by reason
  of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

  To apply the Apache License to your work, attach the following
  boilerplate notice, with the fields enclosed by brackets "[]"
  replaced with your own identifying information. (Don't include
  the brackets!)  The text should be enclosed in the appropriate
  comment syntax for the file format. We also recommend that a
  file or class name and description of purpose be included on the
  same "printed page" as the copyright notice for easier
  identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
==========================================================================
.

---------------------------- Fourth-party information ----------------------
adagio, Apache Software License (Apache-2.0)

--------------------------------(separator)---------------------------------
triad, Apache Software License (Apache-2.0)

--------------------------------(separator)---------------------------------
fs, MIT License (MIT)

MIT License

Copyright (c) 2017-2021 The PyFilesystem2 contributors
Copyright (c) 2016-2019 Will McGugan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------(separator)---------------------------------
appdirs, MIT License (MIT)

The MIT License (MIT)

Copyright (c) 2010 ActiveState Software Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------(separator)---------------------------------
setuptools, MIT License

Copyright Jason R. Coombs

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

--------------------------------(separator)---------------------------------
six, MIT License (MIT)

Copyright (c) 2010-2020 Benjamin Peterson
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------(separator)---------------------------------
numpy, BSD License (BSD-3-Clause)

Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This binary distribution of NumPy also bundles the following software:


  Name: OpenBLAS
  Files: extra-dll\libopenb*.dll
```

```
 Description: bundled as a dynamically linked library
 Availability: https://github.com/xianyi/OpenBLAS/
 License: 3-clause BSD
   Copyright (c) 2011-2014, The OpenBLAS Project
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

      1. Redistributions of source code must retain the above copyright
         notice, this list of conditions and the following disclaimer.

      2. Redistributions in binary form must reproduce the above copyright
         notice, this list of conditions and the following disclaimer in
         the documentation and/or other materials provided with the
         distribution.
      3. Neither the name of the OpenBLAS project nor the names of
         its contributors may be used to endorse or promote products
         derived from this software without specific prior written
         permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS"
   AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE
   IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE
   ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
   LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
   DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR
   SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER
   CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY,
   OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE
   USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


 Name: LAPACK
 Files: extra-dll\libopenb*.dll
 Description: bundled in OpenBLAS
 Availability: https://github.com/xianyi/OpenBLAS/
 License 3-clause BSD
   Copyright (c) 1992-2013 The University of Tennessee and The University
                           of Tennessee Research Foundation.  All rights
                           reserved.
   Copyright (c) 2000-2013 The University of California Berkeley. All
                           rights reserved.
   Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                           reserved.

   $COPYRIGHT$

   Additional copyrights may follow

   $HEADER$

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:
```

```
    - Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer listed
      in this license in the documentation and/or other materials
      provided with the distribution.

    - Neither the name of the copyright holders nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

    The copyright holders provide no reassurances that the source code
    provided does not infringe any patent, copyright, or any other
    intellectual property rights of third parties.  The copyright holders
    disclaim any liability to any recipient for claims brought against
    recipient by any third party for infringement of that parties
    intellectual property rights.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
 LICENSES_bundled.txt

--------------------------------------------------------------------------------

 The NumPy repository and source distributions bundle several libraries
that are
 compatibly licensed.  We list these here.

 Name: lapack-lite
 Files: numpy/linalg/lapack_lite/*
 License: BSD-3-Clause
   For details, see numpy/linalg/lapack_lite/LICENSE.txt

 Name: tempita
 Files: tools/npy_tempita/*
 License: MIT
   For details, see tools/npy_tempita/license.txt

 Name: dragon4
 Files: numpy/core/src/multiarray/dragon4.c
 License: MIT
   For license text, see numpy/core/src/multiarray/dragon4.c

 Name: libdivide
 Files: numpy/core/include/numpy/libdivide/*
 License: Zlib
   For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt
```

```
 --------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
--------------------

-----------------------------------------------------------------------------------------
 lapack-lite
 Copyright (c) 1992-2022 The University of Tennessee and The University
                         of Tennessee Research Foundation.  All rights
                         reserved.
 Copyright (c) 2000-2022 The University of California Berkeley. All
                         rights reserved.
 Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                         reserved.

 Additional copyrights may follow

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are
 met:

 - Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 - Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer listed
   in this license in the documentation and/or other materials
   provided with the distribution.

 - Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

 The copyright holders provide no reassurances that the source code
 provided does not infringe any patent, copyright, or any other
 intellectual property rights of third parties.  The copyright holders
 disclaim any liability to any recipient for claims brought against
 recipient by any third party for infringement of that parties
 intellectual property rights.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
 A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 ---------------------------------------------------------------------------
 tempita

 Copyright (c) 2022 Ian Bicking and Contributors

 Permission is hereby granted, free of charge, to any person obtaining
 a copy of this software and associated documentation files (the
 "Software"), to deal in the Software without restriction, including
 without limitation the rights to use, copy, modify, merge, publish,
 distribute, sublicense, and/or sell copies of the Software, and to
 permit persons to whom the Software is furnished to do so, subject to
 the following conditions:

 The above copyright notice and this permission notice shall be
```

```
 included in all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


-------------------------------------------------------------------------------
 dragon4
   Copyright (c) 2022 Ryan Juckett

   Permission is hereby granted, free of charge, to any person obtaining a
copy
   of this software and associated documentation files (the "Software"), to
   deal in the Software without restriction, including without limitation
the
   rights to use, copy, modify, merge, publish, distribute, sublicense,
andor
   sell copies of the Software, and to permit persons to whom the Software
is
   furnished to do so, subject to the following conditions:

   The above copyright notice and this permission notice shall be included
in
   all copies or substantial portions of the Software.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR
   IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
   FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE
   AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
   LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
   FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS
   IN THE SOFTWARE.


-----------------------------------------------------------------------------------
 libdivide

 zlib License
   Copyright (C) 2010 - 2022 ridiculous_fish,
<libdivide@ridiculousfish.com>
   Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

   This software is provided 'as-is', without any express or implied
   warranty.  In no event will the authors be held liable for any damages
   arising from the use of this software.

   Permission is granted to anyone to use this software for any purpose,
   including commercial applications, and to alter it and redistribute it
   freely, subject to the following restrictions:

   1. The origin of this software must not be misrepresented; you must not
      claim that you wrote the original software. If you use this software
      in a product, an acknowledgment in the product documentation would be
      appreciated but is not required.
   2. Altered source versions must be plainly marked as such, and must not
be
```

```
      misrepresented as being the original software.
   3. This notice may not be removed or altered from any source
distribution.


--------------------------------------------------------------------------------
 LICENSES_bundled in different directories:

-------------------------------------------------------------------------------------

 The NumPy repository and source distributions bundle several libraries
that are
 compatibly licensed.  We list these here.

 Name: SPLITMIX64
 Files: /numpy/blob/numpy/random/src/splitmix64/*
 License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the
3-clause BSD License.
 For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

 Name: SFC64
 Files: /numpy/blob/numpy/random/src/sfc64/*
 License: MIT
 For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

 Name: PHILOX
 Files: /numpy/blob/numpy/random/src/philox/*
 License: D. E. Shaw Research
 For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

 Name: PCG64
 Files: /numpy/blob/numpy/random/src/pcg64/*
 License: MIT
 For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

 Name: MT19937
 Files: /numpy/blob/numpy/random/src/mt19937/*
 License: MIT
 For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

 Name: Julia
 Files: /numpy/blob/numpy/random/src/distributions/*
 License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
contributors
 For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

 Name: Random
 Files: /numpy/blob/numpy/random/*
 License: dual-licensed under the The University of Illinois/NCSA Open
Source License (NCSA) and The 3-Clause BSD License
 For license text, see/numpy/blob/numpy/random/LICENSE.md

 Name: nympy.core.ma
 Files: /numpy/blob/numpy/ma/*
 License: University of Georgia and Pierre G.F. Gerard-Marchant
 For license text, see /numpy/blob/numpy/ma/LICENSE

 --------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
different directories (list above) --------------------

--------------------------------------------------------------------------------------

 Name: SPLITMIX64
```

```
 Written in 2015 by Sebastiano Vigna (vigna@acm.org)

 To the extent possible under law, the author has dedicated all copyright
and related and neighboring rights to this software to the public domain
worldwide. This software is distributed without any warranty.

 See http://creativecommons.org/publicdomain/zero/1.0/.


--------------------------------------------------------------------------------

 Name: SFC64

 © 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

 The MIT License

 Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

 https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

 Copyright (c) 2018 Melissa E. O'Neill

 Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------
 Name: PHILOX

 Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

 Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright
notice, this list of conditions, and the following disclaimer.

    -  Redistributions in binary form must reproduce the above copyright
notice, this list of conditions, and the following disclaimer in the
documentation and/or other materials provided with the distribution.

     - Neither the name of D. E. Shaw Research nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
```

```
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
 Name: PCG64

 The MIT License

 PCG Random Number Generation for C.

 Copyright 2014 Melissa O'Neill oneill@pcg-random.org

 Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

 The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------

 Name: MT19937

 Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

 The rk_random and rk_seed functions algorithms and the original design of
the Mersenne Twister RNG:

 Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All
rights reserved.

 Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    -  Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

    -  Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

     - The names of its contributors may not be used to endorse or
promote products derived from this software without specific prior written
permission.
```

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,

```
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------

 Name: Random

 NCSA Open Source License

 Copyright (c) 2019 Kevin Sheppard. All rights reserved.

 Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

 Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal with the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

 Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimers.

 Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimers in the documentation
and/or other materials provided with the distribution.

 Neither the names of Kevin Sheppard, nor the names of any contributors may
be used to endorse or promote products derived from this Software without
specific prior written permission.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS WITH THE SOFTWARE.

 3-Clause BSD License

 Copyright (c) 2019 Kevin Sheppard. All rights reserved.

 Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

     - Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

     - Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

    - Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
```

```
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  Components

  Many parts of this module have been derived from original sources, often
 the algorithm's designer. Component licenses are located with the component
 code.


 ------------------------------------------------------------------------------------------

  Name: nympy.core.ma

  Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
  All rights reserved.
  Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

       * Redistributions of source code must retain the above copyright
         notice, this list of conditions and the following disclaimer.
       * Redistributions in binary form must reproduce the above copyright
         notice, this list of conditions and the following disclaimer in the
         documentation and/or other materials provided with the
 distribution.
       * Neither the name of the University of Georgia nor the
          names of its contributors may be used to endorse or promote
 products
          derived from this software without specific prior written
 permission.

   THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 ANY
   EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
   DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
 ANY
   DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
   (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
   LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
   ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
   SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)--------------------------------
pandas, BSD License (BSD 3-Clause License Copyright (c) 2008-2011, AQR
 Capital Management, LLC, Lambda Foundry, Inc. and...)

BSD 3-Clause License

Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2023, Open source contributors.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)--------------------------------
python-dateutil, Apache Software License, BSD License (Dual License)

Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).

--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.

--------------- AUTHORS.md Mentioned in  above LICENSE--------------------
------------------------------------------------------------------------------------------
  This is a (possibly incomplete) list of all the contributors to python-
dateutil, initially generated from the git author metadata. The details of
 their specific contributions can be found in the git history.

  Prior to 2017-12-01, the library was licensed solely under the BSD 3-
clause license, all contributions on or after 2017-12-01 are dual-licensed
 between Apache 2.0 and BSD 3-clause. In the list below, anyone whose
 name is marked with R has agreed to re-license their previously submitted
 code under Apache 2.0. Anyone whose name is marked with a D has only made
 contributions since the switch, and thus all their contributions are dual-
licensed.
  Contributors (alphabetical order)

    Adam Chainz adam@MASKED
    Adrien Cossa cossa@MASKED
    Alec Nikolas Reiter alecreiter@MASKED
    Alec Reiter areiter@MASKED
    Aleksei Strizhak alexei.mifrill.strizhak@MASKED (gh: @Mifrill)
    Alex Chamberlain (gh: @alexchamberlain) D
    Alex Verdyan verdyan@MASKED
    Alex Willmer alex@moreati.org.uk (gh: @moreati) R
    Alexander Brugh alexander.brugh@MASKED (gh: @abrugh)
    Alexander Shadchin alexandr.shadchin@gmail.com (gh: @shadchin) D
    Alistair McMaster alistair@MASKED (gh: @alimcmaster1 ) D
    Allison Quinlan aquinlan82@gmail.com (gh: @aquinlan) D
    Andrew Bennett (gh: @andrewcbennett) D
    Andrew Murray radarhere@MASKED
    Arclight arclight@MASKED (gh: @arclightslavik)
    Aritro Nandi gurgenz221@gmail.com (gh: @gurgenz221) D
    Bernat Gabor bgabor8@bloomberg.net (gh: @gaborbernat) D
    Bradlee Speice bradlee@speice.io (gh: @bspeice) D
    Brandon W Maister quodlibetor@MASKED
```

```
    Brock Mendel jbrockmendel@MASKED (gh: @jbrockmendel) R
    Brook Li (gh: @absreim) D
    Carlos carlosxl@MASKED
    Cheuk Ting Ho cheukting.ho@gmail.com (gh: @cheukting) D
    Chris van den Berg (gh: bergvca) D
    Christopher Cordero ccordero@pm.me (gh: cs-cordero) D
    Christopher Corley cscorley@MASKED
    Claudio Canepa ccanepacc@MASKED
    Corey Girard corey.r.girard@gmail.com (gh: @coreygirard) D
    Cosimo Lupo cosimo@anthrotype.com (gh: @anthrotype) D
    Daniel Lemm (gh: @ffe4) D
    Daniel Lepage dplepage@MASKED
    David Lehrian david@MASKED
    Dean Allsopp (gh: @daplantagenet) D
    Dominik Kozaczko dominik@MASKED
    Elliot Hughes elliot.hughes@gmail.com (gh: @ElliotJH) D
    Elvis Pranskevichus el@MASKED
    Fan Huang fanhuang.scb@gmail.com(gh: @fhuang5) D
    Florian Rathgeber (gh: @kynan) D
    Gabriel Bianconi gabriel@MASKED (gh: @GabrielBianconi) D
    Gabriel Poesia gabriel.poesia@MASKED
    Gökçen Nurlu gnurlu1@bloomberg.net (gh: @gokcennurlu) D
    Grant Garrett-Grossman grantlycee@gmail.com (gh: @FakeNameSE) D
    Gustavo Niemeyer gustavo@niemeyer.net (gh: @niemeyer)
    Holger Joukl holger.joukl@MASKED (gh: @hjoukl)
    Hugo van Kemenade (gh: @hugovk) D
    Igor mrigor83@MASKED
    Ionuţ Ciocîrlan jdxlark@MASKED
    Jacqueline Chen jacqueline415@outlook.com (gh: @jachen20) D
    Jake Chorley (gh: @jakec-github) D
    Jakub Kulík (gh: @kulikjak) D
    Jan Studený jendas1@MASKED
    Jay Weisskopf jay@jayschwa.net (gh: @jayschwa) D
    Jitesh jitesh@MASKED
    John Purviance jpurviance@MASKED (gh @jpurviance) D
    Jon Dufresne jon.dufresne@MASKED (gh: @jdufresne) R
    Jonas Neubert jonas@MASKED (gh: @jonemo) R
    Kevin Nguyen kvn219@MASKED D
    Kirit Thadaka kirit.thadaka@gmail.com (gh: @kirit93) D
    Kubilay Kocak koobs@MASKED
    Laszlo Kiss Kollar kiss.kollar.laszlo@MASKED (gh: @lkollar) D
    Lauren Oldja oldja@MASKED (gh: @loldja) D
    Luca Ferocino luca.ferox@MASKED (gh: @lucaferocino) D
    Mario Corchero mcorcherojim@MASKED (gh: @mariocj89) R
    Mark Bailey msb@MASKED D
    Mateusz Dziedzic (gh: @m-dz) D
    Matt Cooper vtbassmatt@MASKED (gh: @vtbassmatt) D
    Matthew Schinckel matt@MASKED
    Max Shenfield shenfieldmax@MASKED
    Maxime Lorant maxime.lorant@MASKED
    Michael Aquilina michaelaquilina@MASKED (gh: @MichaelAquilina)
    Michael J. Schultz mjschultz@MASKED
    Michael Käufl (gh: @michael-k)
    Mike Gilbert floppym@MASKED
    Nicholas Herrriot Nicholas.Herriot@gmail.com D
    Nicolas Évrard (gh: @nicoe) D
    Nick Smith nick.smith@MASKED
    Orson Adams orson.network@MASKED (gh: @parsethis) D
    Paul Brown (gh: @pawl) D
    Paul Dickson (gh @prdickson) D
    Paul Ganssle paul@ganssle.io (gh: @pganssle) R
    Pascal van Kooten kootenpv@MASKED (gh: @kootenpv) R
    Pavel Ponomarev comrad.awsum@MASKED
    Peter Bieringer pb@MASKED
```

```
    Pierre Gergondet pierre.gergondet@MASKED (gh: @gergondet) D
    Quentin Pradet quentin@MASKED
    Raymond Cha (gh: @weatherpattern) D
    Ridhi Mahajan ridhikmahajan@MASKED D
    Robin Henriksson Törnström <gh: @MrRawbin> D
    Roy Williams rwilliams@MASKED
    Rustem Saiargaliev (gh: @amureki) D
    Satyabrat Bhol satyabrat35@MASKED (gh: @Satyabrat35) D
    Savraj savraj@MASKED
    Sergey Vishnikin armicron@MASKED
    Sherry Zhou (gh: @cssherry) D
    Siping Meng (gh: @smeng10) D
    Stefan Bonchev D
    Thierry Bastian thierryb@MASKED
    Thomas A Caswell tcaswell@MASKED (gh: @tacaswell) R
    Thomas Achtemichuk tom@MASKED
    Thomas Kluyver takowl@MASKED (gh: @takluyver)
    Tim Gates tim.gates@iress.com (gh: timgates42)
    Tomasz Kluczkowski (gh: @Tomasz-Kluczkowski) D
    Tomi Pieviläinen tomi.pievilainen@iki.fi
    Unrud Unrud@MASKED (gh: @unrud)
    Xavier Lapointe lapointe.xavier@MASKED (gh: @lapointexavier) D
    X O xo@MASKED
    Yaron de Leeuw me@jarondl.net (gh: @jarondl)
    Yoney alper_yoney@hotmail.com D
    Yuan Huang huangy22@gmail.com (gh: @huangy22) D
    Zbigniew Jędrzejewski-Szmek zbyszek@MASKED
    bachmann bachmann.matt@MASKED
    bjv brandon.vanvaerenbergh@MASKED (@bjamesvERT)
    gl gl@MASKED
    gfyoung gfyoung17@gmail.com D
    Labrys labrys.git@gmail.com (gh: @labrys) R
    ms-boom ms-boom@MASKED
    ryanss ryanssdev@MASKED (gh: @ryanss) R

  Unless someone has deliberately given permission to publish their e-
mail, I have masked the domain names. If you are not on this list and
 believe you should be, or you are on this list and your information is
 inaccurate, please e-mail the current maintainer or the mailing list
 (dateutil@python.org) with your name, e-mail (if desired) and GitHub (if
 desired / applicable), as you would like them displayed. Additionally,
 please indicate if you are willing to dual license your old contributions
 under Apache 2.0.

--------------------------------(separator)---------------------------------
pytz, MIT License (MIT)

Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
```

```
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------(separator)---------------------------------
fugue-sql-antlr, Apache Software License (Apache-2.0)

--------------------------------(separator)---------------------------------
antlr4-python3-runtime, BSD License

Copyright (c) 2012-2022 The ANTLR Project. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither name of copyright holders nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)---------------------------------
jinja2, BSD License (BSD-3-Clause)

Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
```

```
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)---------------------------------
MarkupSafe, BSD License (BSD-3-Clause)

Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------(separator)---------------------------------
qpd, Apache Software License (Apache-2.0)

--------------------------------(separator)---------------------------------
sqlglot, MIT License (MIT)

MIT License

Copyright (c) 2023 Toby Mao

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------(separator)---------------------------------
pyarrow, Apache Software License (Apache License, Version 2.0)

--------------------------------------------------------------------------------

src/plasma/fling.cc and src/plasma/fling.h: Apache 2.0

Copyright 2013 Sharvil Nanavati

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

src/plasma/thirdparty/ae: Modified / 3-Clause BSD

Copyright (c) 2006-2010, Salvatore Sanfilippo <antirez at gmail dot com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
 * Neither the name of Redis nor the names of its contributors may be used
   to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

src/plasma/thirdparty/dlmalloc.c: CC0

This is a version (aka dlmalloc) of malloc/free/realloc written by
Doug Lea and released to the public domain, as explained at
```

```
http://creativecommons.org/publicdomain/zero/1.0/ Send questions,
comments, complaints, performance data, etc to dl@cs.oswego.edu

--------------------------------------------------------------------------------

src/plasma/common.cc (some portions)

Copyright (c) Austin Appleby (aappleby (AT) gmail)

Some portions of this file are derived from code in the MurmurHash project

All code is released to the public domain. For business purposes, Murmurhash
 is
under the MIT license.

https://sites.google.com/site/murmurhash/

--------------------------------------------------------------------------------

src/arrow/util (some portions): Apache 2.0, and 3-clause BSD

Some portions of this module are derived from code in the Chromium project,
copyright (c) Google inc and (c) The Chromium Authors and licensed under the
Apache 2.0 License or the under the 3-clause BSD license:

  Copyright (c) 2013 The Chromium Authors. All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     * Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
     * Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

This project includes code from Daniel Lemire's FrameOfReference project.

https://github.com/lemire/FrameOfReference/
blob/6ccaf9e97160f9a3b299e23a8ef739e711ef0c71/src/bpacking.cpp
https://github.com/lemire/FrameOfReference/
blob/146948b6058a976bc7767262ad3a2ce201486b93/scripts/turbopacking64.py

Copyright: 2013 Daniel Lemire
Home page: http://lemire.me/en/
```

```
Project page: https://github.com/lemire/FrameOfReference
License: Apache License Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0

--------------------------------------------------------------------------------

This project includes code from the TensorFlow project

Copyright 2015 The TensorFlow Authors. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

This project includes code from the NumPy project.

https://github.com/numpy/numpy/blob/
e1f191c46f2eebd6cb892a4bfe14d9dd43a06c4e/numpy/core/src/multiarray/
multiarraymodule.c#L2910

https://github.com/numpy/numpy/
blob/68fd82271b9ea5a9e50d4e761061dfcca851382a/numpy/core/src/multiarray/
datetime.c

Copyright (c) 2005-2017, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
--------------------------------------------------------------------------------

This project includes code from the Boost project

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

This project includes code from the FlatBuffers project

Copyright 2014 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

This project includes code from the tslib project

Copyright 2015 Microsoft Corporation. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
--------------------------------------------------------------------------------

This project includes code from the jemalloc project

https://github.com/jemalloc/jemalloc

Copyright (C) 2002-2017 Jason Evans <jasone@canonware.com>.
All rights reserved.
Copyright (C) 2007-2012 Mozilla Foundation.  All rights reserved.
Copyright (C) 2009-2017 Facebook, Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice(s),
   this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
 notice(s),
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER(S) ``AS IS'' AND ANY
 EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO
EVENT SHALL THE COPYRIGHT HOLDER(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
 OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------

This project includes code from the Go project, BSD 3-clause license +
 PATENTS
weak patent termination clause
(https://github.com/golang/go/blob/master/PATENTS).

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
```

```
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

This project includes code from the hs2client

https://github.com/cloudera/hs2client

Copyright 2016 Cloudera Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

The script ci/scripts/util_wait_for_it.sh has the following license

Copyright (c) 2016 Giles Hall

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

The script r/configure has the following license (MIT)

Copyright (c) 2017, Jeroen Ooms and Jim Hester
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

cpp/src/arrow/util/logging.cc, cpp/src/arrow/util/logging.h and
cpp/src/arrow/util/logging-test.cc are adapted from
Ray Project (https://github.com/ray-project/ray) (Apache 2.0).

Copyright (c) 2016 Ray Project (https://github.com/ray-project/ray)

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------
The files cpp/src/arrow/vendored/datetime/date.h, cpp/src/arrow/vendored/
datetime/tz.h,
cpp/src/arrow/vendored/datetime/tz_private.h, cpp/src/arrow/vendored/
datetime/ios.h,
cpp/src/arrow/vendored/datetime/ios.mm,
cpp/src/arrow/vendored/datetime/tz.cpp are adapted from
Howard Hinnant's date library (https://github.com/HowardHinnant/date)
It is licensed under MIT license.

The MIT License (MIT)
Copyright (c) 2015, 2016, 2017 Howard Hinnant
Copyright (c) 2016 Adrian Colomitchi
Copyright (c) 2017 Florian Dang
Copyright (c) 2017 Paul Thompson
Copyright (c) 2018 Tomasz Kamiński

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

The file cpp/src/arrow/util/utf8.h includes code adapted from the page
  https://bjoern.hoehrmann.de/utf-8/decoder/dfa/
with the following license (MIT)

Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/xxhash/ have the following license
(BSD 2-Clause License)

xxHash Library
Copyright (c) 2012-2014, Yann Collet
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

You can contact the author at :
- xxHash homepage: http://www.xxhash.com
- xxHash source repository : https://github.com/Cyan4973/xxHash

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/double-conversion/ have the following
 license
(BSD 3-Clause License)

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/uriparser/ have the following license
(BSD 3-Clause License)

uriparser - RFC 3986 URI parsing library

Copyright (C) 2007, Weijia Song <songweijia@gmail.com>
Copyright (C) 2007, Sebastian Pipping <sebastian@pipping.org>
All rights reserved.

Redistribution  and use in source and binary forms, with or without
modification,  are permitted provided that the following conditions
are met:

    * Redistributions   of  source  code  must  retain  the   above
      copyright  notice, this list of conditions and the  following
      disclaimer.

    * Redistributions  in  binary  form must  reproduce  the  above
      copyright  notice, this list of conditions and the  following
      disclaimer   in  the  documentation  and/or  other  materials
      provided with the distribution.

    * Neither  the name of the <ORGANIZATION> nor the names of  its
      contributors  may  be  used to endorse  or  promote  products
      derived  from  this software without specific  prior  written
      permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS  IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT  NOT
LIMITED  TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND  FITNESS
FOR  A  PARTICULAR  PURPOSE ARE DISCLAIMED. IN NO EVENT  SHALL  THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,    SPECIAL,   EXEMPLARY,   OR   CONSEQUENTIAL   DAMAGES
(INCLUDING,  BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES;  LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT  LIABILITY,  OR  TORT (INCLUDING  NEGLIGENCE  OR  OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The files under dev/tasks/conda-recipes have the following license

BSD 3-clause license
Copyright (c) 2015-2018, conda-forge
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
```

```
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/utfcpp/ have the following license

Copyright 2006-2018 Nemanja Trifunovic

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

This project includes code from Apache Kudu.

 * cpp/cmake_modules/CompilerInfo.cmake is based on Kudu's cmake_modules/
CompilerInfo.cmake

Copyright: 2016 The Apache Software Foundation.
Home page: https://kudu.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

This project includes code from Apache Impala (incubating), formerly
Impala. The Impala code and rights were donated to the ASF as part of the
Incubator process after the initial code imports into Apache Parquet.
```

```
Copyright: 2012 Cloudera, Inc.
Copyright: 2016 The Apache Software Foundation.
Home page: http://impala.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

This project includes code from Apache Aurora.

* dev/release/{release,changelog,release-candidate} are based on the scripts
 from
  Apache Aurora

Copyright: 2016 The Apache Software Foundation.
Home page: https://aurora.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

This project includes code from the Google styleguide.

* cpp/build-support/cpplint.py is based on the scripts from the Google
 styleguide.

Copyright: 2009 Google Inc. All rights reserved.
Homepage: https://github.com/google/styleguide
License: 3-clause BSD

--------------------------------------------------------------------------------

This project includes code from Snappy.

* cpp/cmake_modules/{SnappyCMakeLists.txt,SnappyConfig.h} are based on code
  from Google's Snappy project.

Copyright: 2009 Google Inc. All rights reserved.
Homepage: https://github.com/google/snappy
License: 3-clause BSD

--------------------------------------------------------------------------------

This project includes code from the manylinux project.

* python/manylinux1/scripts/{build_python.sh,python-tag-abi-tag.py,
  requirements.txt} are based on code from the manylinux project.

Copyright: 2016 manylinux
Homepage: https://github.com/pypa/manylinux
License: The MIT License (MIT)

--------------------------------------------------------------------------------

This project includes code from the cymove project:

* python/pyarrow/includes/common.pxd includes code from the cymove project

The MIT License (MIT)
Copyright (c) 2019 Omer Ozarslan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE
OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

The projects includes code from the Ursabot project under the dev/archery
directory.

License: BSD 2-Clause

Copyright 2019 RStudio, Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

This project include code from mingw-w64.

* cpp/src/arrow/util/cpu-info.cc has a polyfill for mingw-w64 < 5

Copyright (c) 2009 - 2013 by the mingw-w64 project
Homepage: https://mingw-w64.org
License: Zope Public License (ZPL) Version 2.1.

---------------------------------------------------------------------------------

This project include code from Google's Asylo project.
```

```
* cpp/src/arrow/result.h is based on status_or.h

Copyright (c)  Copyright 2017 Asylo authors
Homepage: https://asylo.dev/
License: Apache 2.0

--------------------------------------------------------------------------------

This project includes code from Google's protobuf project

* cpp/src/arrow/result.h ARROW_ASSIGN_OR_RAISE is based off ASSIGN_OR_RETURN
* cpp/src/arrow/util/bit_stream_utils.h contains code from
 wire_format_lite.h

Copyright 2008 Google Inc.  All rights reserved.
Homepage: https://developers.google.com/protocol-buffers/
License:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

--------------------------------------------------------------------------------

3rdparty dependency LLVM is statically linked in certain binary
 distributions.
Additionally some sections of source code have been derived from sources in
 LLVM
and have been clearly labeled as such. LLVM has the following license:

==============================================================================
The LLVM Project is under the Apache License v2.0 with LLVM Exceptions:
==============================================================================

                                 Apache License
                           Version 2.0, January 2004
```

```
                         http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
```

```
2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.
```

```
    5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

    END OF TERMS AND CONDITIONS

    APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

    Copyright [yyyy] [name of copyright owner]

    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
```

```
    You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.


---- LLVM Exceptions to the Apache 2.0 License ----

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into an Object form of such source code, you
may redistribute such embedded portions in such Object form without
 complying
with the conditions of Sections 4(a), 4(b) and 4(d) of the License.

In addition, if you combine or link compiled forms of this Software with
software that is licensed under the GPLv2 ("Combined Software") and if a
court of competent jurisdiction determines that the patent provision
 (Section
3), the indemnity provision (Section 9) or other Section of the License
conflicts with the conditions of the GPLv2, you may retroactively and
prospectively choose to deem waived or otherwise exclude such Section(s) of
the License, but only in their entirety and only with respect to the
 Combined
Software.

==============================================================================
Software from third parties included in the LLVM Project:
==============================================================================
The LLVM Project contains third party software which is under different
 license
terms. All such code will be identified clearly using at least one of two
mechanisms:
1) It will be in a separate directory tree with its own `LICENSE.txt` or
   `LICENSE` file at the top containing the specific license and
 restrictions
   which apply to that software, or
2) It will contain specific license and restriction terms at the top of
 every
   file.

--------------------------------------------------------------------------------

3rdparty dependency gRPC is statically linked in certain binary
distributions, like the python wheels. gRPC has the following license:

Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
--------------------------------------------------------------------------------

3rdparty dependency Apache Thrift is statically linked in certain binary
distributions, like the python wheels. Apache Thrift has the following
 license:

Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

3rdparty dependency Apache ORC is statically linked in certain binary
distributions, like the python wheels. Apache ORC has the following license:

Apache ORC
Copyright 2013-2019 The Apache Software Foundation

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This product includes software developed by Hewlett-Packard:
(c) Copyright [2014-2015] Hewlett-Packard Development Company, L.P

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

3rdparty dependency zstd is statically linked in certain binary
distributions, like the python wheels. ZSTD has the following license:

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
```

```
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

3rdparty dependency lz4 is statically linked in certain binary
distributions, like the python wheels. lz4 has the following license:

LZ4 Library
Copyright (c) 2011-2016, Yann Collet
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
```

```
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

3rdparty dependency Brotli is statically linked in certain binary
distributions, like the python wheels. Brotli has the following license:

Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------

3rdparty dependency rapidjson is statically linked in certain binary
distributions, like the python wheels. rapidjson and its dependencies have
 the
following licenses:

Tencent is pleased to support the open source community by making RapidJSON
available.

Copyright (C) 2015 THL A29 Limited, a Tencent company, and Milo Yip.
All rights reserved.

If you have downloaded a copy of the RapidJSON binary from Tencent, please
 note
that the RapidJSON binary is licensed under the MIT License.
If you have downloaded a copy of the RapidJSON source code from Tencent,
 please
note that RapidJSON source code is licensed under the MIT License, except
 for
the third-party components listed below which are subject to different
 license
terms.  Your integration of RapidJSON into your own projects may require
compliance with the MIT License, as well as the other licenses applicable to
the third-party components included within RapidJSON. To avoid the
 problematic
JSON license in your own projects, it's sufficient to exclude the
bin/jsonchecker/ directory, as it's the only code under the JSON license.
A copy of the MIT License is included in this file.
```

```
Other dependencies and licenses:

    Open Source Software Licensed Under the BSD License:
    --------------------------------------------------------------------------

    The msinttypes r29
    Copyright (c) 2006-2013 Alexander Chemeris
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
 met:

    * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
    * Neither the name of  copyright holder nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 ANY
    EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
    WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
    DISCLAIMED. IN NO EVENT SHALL THE REGENTS AND CONTRIBUTORS BE LIABLE FOR
    ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR
    SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
    DAMAGE.

    Terms of the MIT License:
    --------------------------------------------------------------------------

    Permission is hereby granted, free of charge, to any person obtaining a
    copy of this software and associated documentation files (the
 "Software"),
    to deal in the Software without restriction, including without
 limitation
    the rights to use, copy, modify, merge, publish, distribute, sublicense,
    and/or sell copies of the Software, and to permit persons to whom the
    Software is furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
    in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
```

```
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
    DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

3rdparty dependency snappy is statically linked in certain binary
distributions, like the python wheels. snappy has the following license:

Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Google Inc. nor the names of its contributors may
 be
      used to endorse or promote products derived from this software without
      specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Some of the benchmark data in testdata/ is licensed differently:

 - fireworks.jpeg is Copyright 2013 Steinar H. Gunderson, and
   is licensed under the Creative Commons Attribution 3.0 license
   (CC-BY-3.0). See https://creativecommons.org/licenses/by/3.0/
   for more information.

 - kppkn.gtb is taken from the Gaviota chess tablebase set, and
   is licensed under the MIT License. See
   https://sites.google.com/site/gaviotachessengine/Home/endgame-
tablebases-1
   for more information.

 - paper-100k.pdf is an excerpt (bytes 92160 to 194560) from the paper
   “Combinatorial Modeling of Chromatin Features Quantitatively Predicts DNA
   Replication Timing in _Drosophila_” by Federico Comoglio and Renato Paro,
   which is licensed under the CC-BY license. See
   http://www.ploscompbiol.org/static/license for more ifnormation.

 - alice29.txt, asyoulik.txt, plrabn12.txt and lcet10.txt are from Project
   Gutenberg. The first three have expired copyrights and are in the public
   domain; the latter does not have expired copyright, but is still in the
```

```
   public domain according to the license information
   (http://www.gutenberg.org/ebooks/53).

--------------------------------------------------------------------------------

3rdparty dependency gflags is statically linked in certain binary
distributions, like the python wheels. gflags has the following license:

Copyright (c) 2006, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

3rdparty dependency glog is statically linked in certain binary
distributions, like the python wheels. glog has the following license:

Copyright (c) 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


A function gettimeofday in utilities.cc is based on

http://www.google.com/codesearch/p?hl=en#dR3YEbitojA/
COPYING&q=GetSystemTimeAsFileTime%20license:bsd

The license of this code is:

Copyright (c) 2003-2008, Jouni Malinen <j@w1.fi> and contributors
All Rights Reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name(s) of the above-listed copyright holder(s) nor the
   names of its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

3rdparty dependency re2 is statically linked in certain binary
distributions, like the python wheels. re2 has the following license:

Copyright (c) 2009 The RE2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its contributors
      may be used to endorse or promote products derived from this
```

```
      software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

3rdparty dependency c-ares is statically linked in certain binary
distributions, like the python wheels. c-ares has the following license:

# c-ares license

Copyright (c) 2007 - 2018, Daniel Stenberg with many contributors, see
 AUTHORS
file.

Copyright 1998 by the Massachusetts Institute of Technology.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
 that
the above copyright notice appear in all copies and that both that copyright
notice and this permission notice appear in supporting documentation, and
 that
the name of M.I.T. not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.
M.I.T. makes no representations about the suitability of this software for
 any
purpose.  It is provided "as is" without express or implied warranty.

--------------------------------------------------------------------------------

3rdparty dependency zlib is redistributed as a dynamically linked shared
library in certain binary distributions, like the python wheels. In the
 future
this will likely change to static linkage. zlib has the following license:

zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017

  Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
```

```
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

--------------------------------------------------------------------------------

3rdparty dependency openssl is redistributed as a dynamically linked shared
library in certain binary distributions, like the python wheels. openssl
preceding version 3 has the following license:

  LICENSE ISSUES
  ==============

  The OpenSSL toolkit stays under a double license, i.e. both the conditions
 of
  the OpenSSL License and the original SSLeay license apply to the toolkit.
  See below for the actual license texts.

  OpenSSL License
  ---------------

/* ====================================================================
 * Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
 * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
```

```
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 * ====================================================================
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com).  This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 *
 */

 Original SSLeay License
 -----------------------

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to.  The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given
 attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    "This product includes cryptographic software written by
 *     Eric Young (eay@cryptsoft.com)"
 *    The word 'cryptographic' can be left out if the rouines from the
 library
 *    being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof)
 from
 *    the apps directory (application code) you must include an
 acknowledgement:
 *    "This product includes software written by Tim Hudson
 (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
```

```
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
 * The licence and distribution terms for any publically available version
 or
 * derivative of this code cannot be changed.  i.e. this code cannot simply
 be
 * copied and put under another distribution licence
 * [including the GNU Public Licence.]
 */

--------------------------------------------------------------------------------

This project includes code from the rtools-backports project.

* ci/scripts/PKGBUILD and ci/scripts/r_windows_build.sh are based on code
  from the rtools-backports project.

Copyright: Copyright (c) 2013 - 2019, Алексей and Jeroen Ooms.
All rights reserved.
Homepage: https://github.com/r-windows/rtools-backports
License: 3-clause BSD

--------------------------------------------------------------------------------

Some code from pandas has been adapted for the pyarrow codebase. pandas is
available under the 3-clause BSD license, which follows:

pandas license
==============

Copyright (c) 2011-2012, Lambda Foundry, Inc. and PyData Development Team
All rights reserved.

Copyright (c) 2008-2011 AQR Capital Management, LLC
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the copyright holder nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

Some bits from DyND, in particular aspects of the build system, have been
adapted from libdynd and dynd-python under the terms of the BSD 2-clause
license

The BSD 2-Clause License

    Copyright (C) 2011-12, Dynamic NDArray Developers
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

        * Redistributions of source code must retain the above copyright
           notice, this list of conditions and the following disclaimer.

        * Redistributions in binary form must reproduce the above
           copyright notice, this list of conditions and the following
           disclaimer in the documentation and/or other materials provided
           with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Dynamic NDArray Developers list:

 * Mark Wiebe
 * Continuum Analytics

--------------------------------------------------------------------------------

Some source code from Ibis (https://github.com/cloudera/ibis) has been
 adapted
for PyArrow. Ibis is released under the Apache License, Version 2.0.

--------------------------------------------------------------------------------

This project includes code from the autobrew project.

The following files are based on code from the autobrew project:
* r/tools/autobrew
* dev/tasks/homebrew-formulae/autobrew/apache-arrow.rb
* dev/tasks/homebrew-formulae/autobrew/apache-arrow-static.rb
```

```
Copyright (c) 2019, Jeroen Ooms
License: MIT
Homepage: https://github.com/autobrew/

--------------------------------------------------------------------------------

dev/tasks/homebrew-formulae/apache-arrow.rb has the following license:

BSD 2-Clause License

Copyright (c) 2009-present, Homebrew contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------

cpp/src/arrow/vendored/base64.cpp has the following license

ZLIB License

Copyright (C) 2004-2017 René Nyffenegger

This source code is provided 'as-is', without any express or implied
warranty. In no event will the author be held liable for any damages arising
from the use of this software.

Permission is granted to anyone to use this software for any purpose,
 including
commercial applications, and to alter it and redistribute it freely, subject
 to
the following restrictions:

1. The origin of this source code must not be misrepresented; you must not
   claim that you wrote the original source code. If you use this source
 code
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original source code.
```

```
3. This notice may not be removed or altered from any source distribution.

René Nyffenegger rene.nyffenegger@adp-gmbh.ch

--------------------------------------------------------------------------------

This project includes code from Folly.

 * cpp/src/arrow/vendored/ProducerConsumerQueue.h

is based on Folly's

 * folly/Portability.h
 * folly/lang/Align.h
 * folly/ProducerConsumerQueue.h

Copyright: Copyright (c) Facebook, Inc. and its affiliates.
Home page: https://github.com/facebook/folly
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

The file cpp/src/arrow/vendored/musl/strptime.c has the following license

Copyright © 2005-2020 Rich Felker, et al.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

The file cpp/cmake_modules/BuildUtils.cmake contains code from

https://gist.github.com/cristianadam/ef920342939a89fae3e8a85ca9459b49

which is made available under the MIT license

Copyright (c) 2019 Cristian Adam

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/portable-snippets/ contain code from

https://github.com/nemequ/portable-snippets

and have the following copyright notice:

Each source file contains a preamble explaining the license situation
for that file, which takes priority over this file.  With the
exception of some code pulled in from other repositories (such as
µnit, an MIT-licensed project which is used for testing), the code is
public domain, released using the CC0 1.0 Universal dedication (*).

(*) https://creativecommons.org/publicdomain/zero/1.0/legalcode

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/fast_float/ contain code from

https://github.com/lemire/fast_float

which is made available under the Apache License 2.0.

--------------------------------------------------------------------------------

The file python/pyarrow/vendored/docscrape.py contains code from

https://github.com/numpy/numpydoc/

which is made available under the BSD 2-clause license.

--------------------------------------------------------------------------------

The file python/pyarrow/vendored/version.py contains code from

https://github.com/pypa/packaging/

which is made available under both the Apache license v2.0 and the
BSD 2-clause license.

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/pcg contain code from

https://github.com/imneme/pcg-cpp

and have the following copyright notice:

Copyright 2014-2019 Melissa O'Neill <oneill@pcg-random.org>,
```

```
                     and the PCG Project contributors.

SPDX-License-Identifier: (Apache-2.0 OR MIT)

Licensed under the Apache License, Version 2.0 (provided in
LICENSE-APACHE.txt and at http://www.apache.org/licenses/LICENSE-2.0)
or under the MIT license (provided in LICENSE-MIT.txt and at
http://opensource.org/licenses/MIT), at your option. This file may not
be copied, modified, or distributed except according to those terms.

Distributed on an "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, either
express or implied.  See your chosen license for details.

--------------------------------------------------------------------------------
r/R/dplyr-count-tally.R (some portions)

Some portions of this file are derived from code from

https://github.com/tidyverse/dplyr/

which is made available under the MIT license

Copyright (c) 2013-2019 RStudio and others.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the “Software”), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

The file src/arrow/util/io_util.cc contains code from the CPython project
which is made available under the Python Software Foundation License Version
 2.

--------------------------------------------------------------------------------

3rdparty dependency opentelemetry-cpp is statically linked in certain binary
distributions. opentelemetry-cpp is made available under the Apache License
 2.0.

Copyright The OpenTelemetry Authors
SPDX-License-Identifier: Apache-2.0

--------------------------------------------------------------------------------

ci/conan/ is based on code from Conan Package and Dependency Manager.
```

```
Copyright (c) 2019 Conan.io

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

3rdparty dependency UCX is redistributed as a dynamically linked shared
library in certain binary distributions. UCX has the following license:

Copyright (c) 2014-2015      UT-Battelle, LLC. All rights reserved.
Copyright (C) 2014-2020      Mellanox Technologies Ltd. All rights reserved.
Copyright (C) 2014-2015      The University of Houston System. All rights
 reserved.
Copyright (C) 2015           The University of Tennessee and The University
                             of Tennessee Research Foundation. All rights
 reserved.
Copyright (C) 2016-2020      ARM Ltd. All rights reserved.
Copyright (c) 2016           Los Alamos National Security, LLC. All rights
 reserved.
Copyright (C) 2016-2020      Advanced Micro Devices, Inc.  All rights
 reserved.
Copyright (C) 2019           UChicago Argonne, LLC.  All rights reserved.
Copyright (c) 2018-2020      NVIDIA CORPORATION. All rights reserved.
Copyright (C) 2020           Huawei Technologies Co., Ltd. All rights
 reserved.
Copyright (C) 2016-2020      Stony Brook University. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The file dev/tasks/r/github.packages.yml contains code from

https://github.com/ursa-labs/arrow-r-nightly

which is made available under the Apache License 2.0.

--------------------------------------------------------------------------------
.github/actions/sync-nightlies/action.yml  (some portions)

Some portions of this file are derived from code from

https://github.com/JoshPiper/rsync-docker

which is made available under the MIT license

Copyright (c) 2020 Joshua Piper

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------
.github/actions/sync-nightlies/action.yml (some portions)

Some portions of this file are derived from code from

https://github.com/burnett01/rsync-deployments

which is made available under the MIT license

Copyright (c) 2019-2022 Contention
Copyright (c) 2019-2022 Burnett01

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------(separator)---------------------------------
LICENSES
.
Apache Software License (Apache-2.0)


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
```

```
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
.
```

Provider: The Apache Software Foundation / Component(s): HttpAsyncClient 4.1.5

```
#########################################################################
Top Level License for HttpAsyncClient
#########################################################################

HttpAsyncClient

Apache HttpComponents AsyncClient
Copyright 2010-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


-------------------------------------------------------------------------------
                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
--------------------------------------------------------------------------------
This project contains annotations derived from JCIP-ANNOTATIONS
Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


================================================================================
4P Dependencies:
================================================================================



____________________________________
org.apache.httpcomponents:httpcore
____________________________________
Apache HttpComponents Core
Copyright 2005-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

_________________________________________
org.apache.httpcomponents:httpcore-nio
_________________________________________
Apache HttpComponents Core
Copyright 2005-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

____________________________________
org.apache.httpcomponents:httpclient
____________________________________
Apache HttpComponents Client
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

____________________________________


This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
```

```
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

     (a) any file in Source Code Form that results from an addition to,
         deletion from, or modification of the contents of Covered
         Software; or

     (b) any new file in Source Code Form that contains any Covered
         Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.
```

```
1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
```

```
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
```

```
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
```

```
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
```

```
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.


____________________________
commons-codec:commons-codec
____________________________
Apache Commons Codec
Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

===============================================================================

The content of package org.apache.commons.codec.language.bm has been
 translated
```

```
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

_________________________________
commons-logging:commons-logging
_________________________________
Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

Provider: The Apache Software Foundation / Component(s): httpclient5 5.3.1

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
```

```
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
```

```
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

============================================================================

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
```

```
    means any of the following:

    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or

    (b) any new file in Source Code Form that contains any Covered
        Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
---------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
```

```
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
```

```
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
```

```
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------
```

```
Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
```

```
-------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.
Footer
© 2023 GitHub, Inc.
Footer navigation
Terms
Privacy
Security
Status
Docs
-------------------------------------------------------------------------------------------
Notice.txt
Apache HttpComponents Client
Copyright 1999-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
-------------------------------------------------------------------------------------------
Fourth Party Dependencies
org.apache.httpcomponents.core5 » httpcore5
Apache License, Version 2.0

Notice.txt
Apache HttpComponents Core
Copyright 2005-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
-------------------------------------------------------------------------
org.apache.httpcomponents.core5 » httpcore5-h2
Apache License, Version 2.0

Notice.txt
Apache HttpComponents Core
Copyright 2005-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

-------------------------------------------------------------------------
org.slf4j » slf4j-api

Copyright (c) 2004-2023 QOS.ch
 All rights reserved.

 Permission is hereby granted, free  of charge, to any person obtaining
 a  copy  of this  software  and  associated  documentation files  (the
 "Software"), to  deal in  the Software without  restriction, including
 without limitation  the rights to  use, copy, modify,  merge, publish,
 distribute,  sublicense, and/or sell  copies of  the Software,  and to
 permit persons to whom the Software  is furnished to do so, subject to
 the following conditions:

 The  above  copyright  notice  and  this permission  notice  shall  be
 included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
 NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
```

```
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X
 License or the X11 License, which is a simple, permissive non-copyleft
 free software license. It is deemed compatible with virtually all types
 of licenses, commercial or otherwise. In particular, the Free Software
 Foundation has declared it compatible with GNU GPL. It is also known to
 be approved by the Apache Software Foundation as compatible with Apache
 Software License.
-----------------------------------------------------------------------------------------
```

Provider: The Apache Software Foundation / Component(s): HttpComponents HttpClient 4.5.13

```
Notice file:
Apache HttpComponents Client
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

http://www.apache.org/licenses/LICENSE-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).
```

```
"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
```

```
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

===========================================================================

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
```

```
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

     (a) any file in Source Code Form that results from an addition to,
         deletion from, or modification of the contents of Covered
         Software; or

     (b) any new file in Source Code Form that contains any Covered
         Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
```

```
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or
```

```
(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
```

```
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
```

```
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
```

```
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

--------------------4th party
 dependencies-----------------------------------

Apache HttpComponents Core
From the Notice File:
 Apache HttpComponents Core
```

```
 Copyright 2005-2020 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).
License File:
 Apache License Version 2.0


Apache Commons Logging
From the Notice File:
 Apache Commons Logging
 Copyright 2003-2014 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).
License File:
 Apache License Version 2.0


Apache Commons Codec
From the Notice File:
 Apache Commons Codec
 Copyright 2002-2017 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).

 src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
 contains test data from http://aspell.net/test/orig/batch0.tab.
 Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

 ===============================================================================

 The content of package org.apache.commons.codec.language.bm has been
 translated
 from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
 with permission from the original authors.
 Original source copyright:
 Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
License File:
 Apache License Version 2.0
```

Provider: The Apache Software Foundation / Component(s): HttpCore 4.4.16

```
Apache HttpComponents Core

Copyright 2005-2021 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (http://www.apache.org/).



============================

LICENSE: Apache 2.0
                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS
============================================================
```

Provider: The Apache Software Foundation / Component(s): httpcore5 5.2.5

```
Copyright: The Apache Software Foundation
License: Apache 2.0

 ./LICENSE.txt

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

-------------- Separator --------------

 ./NOTICE.txt

Apache HttpComponents Core
Copyright 2005-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

-------------- Separator --------------
```

Provider: The Apache Software Foundation / Component(s): kafka client 2.4.1

```
                        Apache License
```

```
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------------------------------------
This distribution has a binary dependency on jersey, which is available
 under the EPLv2
License as described below.

Eclipse Public License - v 2.0

        THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
        PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
        OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

    1. DEFINITIONS

    "Contribution" means:

      a) in the case of the initial Contributor, the initial content
         Distributed under this Agreement, and

      b) in the case of each subsequent Contributor:
         i) changes to the Program, and
         ii) additions to the Program;
      where such changes and/or additions to the Program originate from
      and are Distributed by that particular Contributor. A Contribution
      "originates" from a Contributor if it was added to the Program by
      such Contributor itself or anyone acting on such Contributor's behalf.
      Contributions do not include changes or additions to the Program that
      are not Modified Works.

    "Contributor" means any person or entity that Distributes the Program.

    "Licensed Patents" mean patent claims licensable by a Contributor which
    are necessarily infringed by the use or sale of its Contribution alone
    or when combined with the Program.

    "Program" means the Contributions Distributed in accordance with this
    Agreement.

    "Recipient" means anyone who receives the Program under this Agreement
    or any Secondary License (as applicable), including Contributors.

    "Derivative Works" shall mean any work, whether in Source Code or other
    form, that is based on (or derived from) the Program and for which the
    editorial revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship.

    "Modified Works" shall mean any work in Source Code or other form that
    results from an addition to, deletion from, or modification of the
    contents of the Program, including, for purposes of clarity any new file
    in Source Code form that contains any contents of the Program. Modified
    Works shall not include works that contain only declarations,
    interfaces, types, classes, structures, or files of the Program solely
    in each case in order to link to, bind by name, or subclass the Program
    or Modified Works thereof.
```

```
"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
```

```
      is available under this Agreement, and informs Recipients how to
      obtain it in a reasonable manner on or through a medium customarily
      used for software exchange; and

      b) the Contributor may Distribute the Program under a license
      different than this Agreement, provided that such license:
         i) effectively disclaims on behalf of all other Contributors all
         warranties and conditions, express and implied, including
         warranties or conditions of title and non-infringement, and
         implied warranties or conditions of merchantability and fitness
         for a particular purpose;

         ii) effectively excludes on behalf of all other Contributors all
         liability for damages, including direct, indirect, special,
         incidental and consequential damages, such as lost profits;

         iii) does not attempt to limit or alter the recipients' rights
         in the Source Code under section 3.2; and

         iv) requires any subsequent distribution of the Program by any
         party to be under a license that satisfies the requirements
         of this section 3.

   3.2 When the Program is Distributed as Source Code:

      a) it must be made available under this Agreement, or if the
      Program (i) is combined with other material in a separate file or
      files made available under a Secondary License, and (ii) the initial
      Contributor attached to the Source Code the notice described in
      Exhibit A of this Agreement, then the Program may be made available
      under the terms of such Secondary Licenses, and

      b) a copy of this Agreement must be included with each copy of
      the Program.

   3.3 Contributors may not remove or alter any copyright, patent,
   trademark, attribution notices, disclaimers of warranty, or limitations
   of liability ("notices") contained within the Program from any copy of
   the Program which they Distribute, provided that Contributors may add
   their own appropriate notices.

   4. COMMERCIAL DISTRIBUTION

   Commercial distributors of software may accept certain responsibilities
   with respect to end users, business partners and the like. While this
   license is intended to facilitate the commercial use of the Program,
   the Contributor who includes the Program in a commercial product
   offering should do so in a manner which does not create potential
   liability for other Contributors. Therefore, if a Contributor includes
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the
Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
   Contributor must: a) promptly notify the Commercial Contributor in
   writing of such claim, and b) allow the Commercial Contributor to
control,
   and cooperate with the Commercial Contributor in, the defense and any
```

```
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.

   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance
   claims, or offers warranties related to Product X, those performance
   claims and warranties are such Commercial Contributor's responsibility
   alone. Under this section, the Commercial Contributor would have to
   defend claims against the other Contributors related to those
performance
   claims and warranties, and if a court requires any other Contributor to
   pay any damages as a result, the Commercial Contributor must pay
   those damages.

   5. NO WARRANTY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
   BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
   IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
   TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
   PURPOSE. Each Recipient is solely responsible for determining the
   appropriateness of using and distributing the Program and assumes all
   risks associated with its exercise of rights under this Agreement,
   including but not limited to the risks and costs of program errors,
   compliance with applicable laws, damage to or loss of data, programs
   or equipment, and unavailability or interruption of operations.

   6. DISCLAIMER OF LIABILITY

   EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
   PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
   SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
   PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
   CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
   ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
   EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
   POSSIBILITY OF SUCH DAMAGES.

   7. GENERAL

   If any provision of this Agreement is invalid or unenforceable under
   applicable law, it shall not affect the validity or enforceability of
   the remainder of the terms of this Agreement, and without further
   action by the parties hereto, such provision shall be reformed to the
   minimum extent necessary to make such provision valid and enforceable.

   If Recipient institutes patent litigation against any entity
   (including a cross-claim or counterclaim in a lawsuit) alleging that the
   Program itself (excluding combinations of the Program with other
software
   or hardware) infringes such Recipient's patent(s), then such Recipient's
   rights granted under Section 2(b) shall terminate as of the date such
   litigation is filed.

   All Recipient's rights under this Agreement shall terminate if it
   fails to comply with any of the material terms or conditions of this
   Agreement and does not cure such failure in a reasonable period of
   time after becoming aware of such noncompliance. If all Recipient's
   rights under this Agreement terminate, Recipient agrees to cease use
   and distribution of the Program as soon as reasonably practicable.
   However, Recipient's obligations under this Agreement and any licenses
```

```
    granted by Recipient relating to the Program shall continue and survive.

    Everyone is permitted to copy and distribute copies of this Agreement,
    but in order to avoid inconsistency the Agreement is copyrighted and
    may only be modified in the following manner. The Agreement Steward
    reserves the right to publish new versions (including revisions) of
    this Agreement from time to time. No one other than the Agreement
    Steward has the right to modify this Agreement. The Eclipse Foundation
    is the initial Agreement Steward. The Eclipse Foundation may assign the
    responsibility to serve as the Agreement Steward to a suitable separate
    entity. Each new version of the Agreement will be given a distinguishing
    version number. The Program (including Contributions) may always be
    Distributed subject to the version of the Agreement under which it was
    received. In addition, after a new version of the Agreement is
 published,
    Contributor may elect to Distribute the Program (including its
    Contributions) under the new version.

    Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
    receives no rights or licenses to the intellectual property of any
    Contributor under this Agreement, whether expressly, by implication,
    estoppel or otherwise. All rights in the Program not expressly granted
    under this Agreement are reserved. Nothing in this Agreement is intended
    to be enforceable by any entity that is not a Contributor or Recipient.
    No third-party beneficiary rights are created under this Agreement.

    Exhibit A - Form of Secondary Licenses Notice

    "This Source Code may also be made available under the following
    Secondary Licenses when the conditions for such availability set forth
    in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
    version(s), and exceptions or additional permissions here}."

      Simply including a copy of this Agreement, including this Exhibit A
      is not sufficient to license the Source Code under Secondary Licenses.

      If it is not possible or desirable to put the notice in a particular
      file, then You may include the notice in a location (such as a LICENSE
      file in a relevant directory) where a recipient would be likely to
      look for such a notice.

      You may add additional accurate notices of copyright ownership.

--------------------------------------------------------------------------------
This distribution has a binary dependency on zstd, which is available under
 the BSD 3-Clause License as described below.

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
This distribution has a binary dependency on zstd-jni, which is available
 under the BSD 2-Clause License
as described below.

Zstd-jni: JNI bindings to Zstd Library

Copyright (c) 2015-2016, Luben Karavelov/ All rights reserved.

BSD License

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
```

```
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Apache Software Foundation / Component(s): Log4J 1.2.17-16

```
Apache log4j
Copyright 2010 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
```

```
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
```

```
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 1999-2005 The Apache Software Foundation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Log4J 2.13.3

```
log4j-api-2.13.3.jar
log4j-core-2.13.3.jar
log4j-jcl-2.13.3.jar
log4j-jul-2.13.3.jar
log4j-slf4j-impl-2.13.3.jar

Apache Log4j
Copyright 1999-2017 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

picocli (http://picocli.info)
Copyright 2017 Remko Popma

                             Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): Log4j-API 2.23.1

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
```

```
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 1999-2005 The Apache Software Foundation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



---------- Notice.txt Log4j -------

Apache Log4j
Copyright 1999-2024 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

picocli (http://picocli.info)
Copyright 2017 Remko Popma

TimeoutBlockingWaitStrategy.java and parts of Util.java
Copyright 2011 LMAX Ltd.
```

Provider: The Apache Software Foundation / Component(s): log4j-core 2.23.1

```
Copyright: The Apache Software Foundation
License: Apache 2.0

 ./LICENSE.txt


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 1999-2005 The Apache Software Foundation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
-------------- Separator --------------

 ./NOTICE.txt

Apache Log4j
Copyright 1999-2024 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

picocli (http://picocli.info)
Copyright 2017 Remko Popma

TimeoutBlockingWaitStrategy.java and parts of Util.java
Copyright 2011 LMAX Ltd.

-------------- Separator --------------



Dependency: org.apache.logging.log4j:log4j-api
Copyright: The Apache Software Foundation
License: Apache 2.0

 ./LICENSE.txt

Apache 2.0 ( same as org.apache.logging.log4j:log4j-core)

-------------- Separator --------------

 ./NOTICE.txt

(Notice same as org.apache.logging.log4j:log4j-core)

-------------- Separator --------------
```

Provider: The Apache Software Foundation / Component(s): log4j-slf4j2-impl 2.23.1

```
log4j-slf4j2-impl


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 1999-2005 The Apache Software Foundation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
======================
Top-level NOTICE:

Apache Log4j
Copyright 1999-2024 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

picocli (http://picocli.info)
Copyright 2017 Remko Popma

TimeoutBlockingWaitStrategy.java and parts of Util.java
Copyright 2011 LMAX Ltd.

======================
Dependency: slf4j-api

LICENSE.txt:
Copyright (c) 2004-2022 QOS.ch Sarl (Switzerland)
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


slf4j-api/LICENSE.txt:
Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:
```

```
The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



======================
org.apache.logging.log4j » log4j-api
Apache License, Version 2.0
======================
org.apache.logging.log4j » log4j-core (runtime dependency)
Apache License, Version 2.0
Apache Log4j Core
Copyright 1999-2012 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell
======================
```

Provider: The Apache Software Foundation / Component(s): Mina SSHD-common 2.12.1

```



Top Level Component : sshd-common
Top Level Component License : Apache 2.0


Notice:

Apache MINA SSHD
Copyright 2008-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Please refer to each LICENSE.<component>.txt file for the
license terms of the components that Apache MINA depends on.


License:

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
---------------------------------------------------------------------------
```

Provider: The Apache Software Foundation / Component(s): MyBatis 3.5.15

```
./LICENSE

                                 Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
```

```
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------

 ./LICENSE_HEADER

   Copyright ${license.git.copyrightYears} the original author or authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

      https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------

 ./NOTICE

MyBatis
Copyright 2010-2023

This product includes software developed by
The MyBatis Team (https://www.mybatis.org/).

iBATIS
   This product includes software developed by
   The Apache Software Foundation (https://www.apache.org/).

   Copyright 2010 The Apache Software Foundation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

OGNL
//-----------------------------------------------------------------------------
//  Copyright (c) 2004, Drew Davidson and Luke Blanshard
//  All rights reserved.
//
//  Redistribution and use in source and binary forms, with or without
//  modification, are permitted provided that the following conditions are
//  met:
//
//  Redistributions of source code must retain the above copyright notice,
//  this list of conditions and the following disclaimer.
//  Redistributions in binary form must reproduce the above copyright
//  notice, this list of conditions and the following disclaimer in the
//  documentation and/or other materials provided with the distribution.
//  Neither the name of the Drew Davidson nor the names of its contributors
//  may be used to endorse or promote products derived from this software
//  without specific prior written permission.
//
//  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
//  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
//  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
//  FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
//  COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
//  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
//  BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
//  OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
//  AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
//  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
//  THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
//  DAMAGE.
//-----------------------------------------------------------------------------

Refactored SqlBuilder class (SQL, AbstractSQL)

   This product includes software developed by
   Adam Gent (https://gist.github.com/3650165)

   Copyright 2010 Adam Gent

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Apache Software Foundation / Component(s): pyarrow 14.0.1

```
Apache Arrow
Copyright 2016-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
This product includes software from the SFrame project (BSD, 3-clause).
* Copyright (C) 2015 Dato, Inc.
* Copyright (c) 2009 Carnegie Mellon University.

This product includes software from the Feather project (Apache 2.0)
https://github.com/wesm/feather

This product includes software from the DyND project (BSD 2-clause)
https://github.com/libdynd

This product includes software from the LLVM project
 * distributed under the University of Illinois Open Source

This product includes software from the google-lint project
 * Copyright (c) 2009 Google Inc. All rights reserved.

This product includes software from the mman-win32 project
 * Copyright https://code.google.com/p/mman-win32/
 * Licensed under the MIT License;

This product includes software from the LevelDB project
 * Copyright (c) 2011 The LevelDB Authors. All rights reserved.
 * Use of this source code is governed by a BSD-style license that can be
 * Moved from Kudu http://github.com/cloudera/kudu

This product includes software from the CMake project
 * Copyright 2001-2009 Kitware, Inc.
 * Copyright 2012-2014 Continuum Analytics, Inc.
 * All rights reserved.

This product includes software from https://github.com/matthew-brett/
multibuild (BSD 2-clause)
 * Copyright (c) 2013-2016, Matt Terry and Matthew Brett; all rights
 reserved.

This product includes software from the Ibis project (Apache 2.0)
 * Copyright (c) 2015 Cloudera, Inc.
 * https://github.com/cloudera/ibis

This product includes software from Dremio (Apache 2.0)
  * Copyright (C) 2017-2018 Dremio Corporation
  * https://github.com/dremio/dremio-oss

This product includes software from Google Guava (Apache 2.0)
  * Copyright (C) 2007 The Guava Authors
  * https://github.com/google/guava

This product include software from CMake (BSD 3-Clause)
  * CMake - Cross Platform Makefile Generator
  * Copyright 2000-2019 Kitware, Inc. and Contributors

The web site includes files generated by Jekyll.

--------------------------------------------------------------------------------

This product includes code from Apache Kudu, which includes the following in
its NOTICE file:

  Apache Kudu
  Copyright 2016 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).
```

```
  Portions of this software were developed at
  Cloudera, Inc (http://www.cloudera.com/).

--------------------------------------------------------------------------------

This product includes code from Apache ORC, which includes the following in
its NOTICE file:

  Apache ORC
  Copyright 2013-2019 The Apache Software Foundation

  This product includes software developed by The Apache Software
  Foundation (http://www.apache.org/).

  This product includes software developed by Hewlett-Packard:
  (c) Copyright [2014-2015] Hewlett-Packard Development Company, L.P

---------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
```

```
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
```

```
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------------------------------------

src/arrow/util (some portions): Apache 2.0, and 3-clause BSD

Some portions of this module are derived from code in the Chromium project,
copyright (c) Google inc and (c) The Chromium Authors and licensed under the
Apache 2.0 License or the under the 3-clause BSD license:

  Copyright (c) 2013 The Chromium Authors. All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     * Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
     * Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

This project includes code from Daniel Lemire's FrameOfReference project.

https://github.com/lemire/FrameOfReference/
blob/6ccaf9e97160f9a3b299e23a8ef739e711ef0c71/src/bpacking.cpp
https://github.com/lemire/FrameOfReference/
blob/146948b6058a976bc7767262ad3a2ce201486b93/scripts/turbopacking64.py

Copyright: 2013 Daniel Lemire
Home page: http://lemire.me/en/
Project page: https://github.com/lemire/FrameOfReference
License: Apache License Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0

--------------------------------------------------------------------------------

This project includes code from the TensorFlow project

Copyright 2015 The TensorFlow Authors. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

This project includes code from the NumPy project.

https://github.com/numpy/numpy/blob/
e1f191c46f2eebd6cb892a4bfe14d9dd43a06c4e/numpy/core/src/multiarray/
multiarraymodule.c#L2910

https://github.com/numpy/numpy/
blob/68fd82271b9ea5a9e50d4e761061dfcca851382a/numpy/core/src/multiarray/
datetime.c

Copyright (c) 2005-2017, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
```

```
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

This project includes code from the Boost project

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

This project includes code from the FlatBuffers project

Copyright 2014 Google Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------
```

```
This project includes code from the tslib project

Copyright 2015 Microsoft Corporation. All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

This project includes code from the jemalloc project

https://github.com/jemalloc/jemalloc

Copyright (C) 2002-2017 Jason Evans <jasone@canonware.com>.
All rights reserved.
Copyright (C) 2007-2012 Mozilla Foundation.  All rights reserved.
Copyright (C) 2009-2017 Facebook, Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice(s),
   this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
 notice(s),
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER(S) ``AS IS'' AND ANY
 EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO
EVENT SHALL THE COPYRIGHT HOLDER(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
 OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------

This project includes code from the Go project, BSD 3-clause license +
 PATENTS
weak patent termination clause
(https://github.com/golang/go/blob/master/PATENTS).

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
```

```
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

This project includes code from the hs2client

https://github.com/cloudera/hs2client

Copyright 2016 Cloudera Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

The script ci/scripts/util_wait_for_it.sh has the following license

Copyright (c) 2016 Giles Hall

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

The script r/configure has the following license (MIT)

Copyright (c) 2017, Jeroen Ooms and Jim Hester

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

cpp/src/arrow/util/logging.cc, cpp/src/arrow/util/logging.h and
cpp/src/arrow/util/logging-test.cc are adapted from
Ray Project (https://github.com/ray-project/ray) (Apache 2.0).

Copyright (c) 2016 Ray Project (https://github.com/ray-project/ray)

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------
The files cpp/src/arrow/vendored/datetime/date.h, cpp/src/arrow/vendored/
datetime/tz.h,
cpp/src/arrow/vendored/datetime/tz_private.h, cpp/src/arrow/vendored/
datetime/ios.h,
```

```
cpp/src/arrow/vendored/datetime/ios.mm,
cpp/src/arrow/vendored/datetime/tz.cpp are adapted from
Howard Hinnant's date library (https://github.com/HowardHinnant/date)
It is licensed under MIT license.

The MIT License (MIT)
Copyright (c) 2015, 2016, 2017 Howard Hinnant
Copyright (c) 2016 Adrian Colomitchi
Copyright (c) 2017 Florian Dang
Copyright (c) 2017 Paul Thompson
Copyright (c) 2018 Tomasz Kamiński

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

The file cpp/src/arrow/util/utf8.h includes code adapted from the page
  https://bjoern.hoehrmann.de/utf-8/decoder/dfa/
with the following license (MIT)

Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/xxhash/ have the following license
(BSD 2-Clause License)

xxHash Library
Copyright (c) 2012-2014, Yann Collet
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

You can contact the author at :
- xxHash homepage: http://www.xxhash.com
- xxHash source repository : https://github.com/Cyan4973/xxHash

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/double-conversion/ have the following
 license
(BSD 3-Clause License)

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/uriparser/ have the following license
(BSD 3-Clause License)

uriparser - RFC 3986 URI parsing library

Copyright (C) 2007, Weijia Song <songweijia@gmail.com>
Copyright (C) 2007, Sebastian Pipping <sebastian@pipping.org>
All rights reserved.

Redistribution  and use in source and binary forms, with or without
modification,  are permitted provided that the following conditions
are met:

    * Redistributions   of   source   code   must   retain   the   above
      copyright  notice, this list of conditions and the  following
      disclaimer.

    * Redistributions  in  binary  form must  reproduce  the  above
      copyright  notice, this list of conditions and the  following
      disclaimer   in   the   documentation   and/or   other   materials
      provided with the distribution.

    * Neither  the name of the <ORGANIZATION> nor the names of  its
      contributors  may  be  used to endorse  or  promote  products
      derived  from  this software without specific  prior  written
      permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS  IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT  NOT
LIMITED  TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND  FITNESS
FOR  A  PARTICULAR  PURPOSE ARE DISCLAIMED. IN NO EVENT  SHALL  THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,    SPECIAL,   EXEMPLARY,   OR   CONSEQUENTIAL   DAMAGES
(INCLUDING,  BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES;  LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT  LIABILITY,  OR  TORT (INCLUDING  NEGLIGENCE  OR  OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The files under dev/tasks/conda-recipes have the following license

BSD 3-clause license
Copyright (c) 2015-2018, conda-forge
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/utfcpp/ have the following license

Copyright 2006-2018 Nemanja Trifunovic

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

This project includes code from Apache Kudu.
```

```
 * cpp/cmake_modules/CompilerInfo.cmake is based on Kudu's cmake_modules/
CompilerInfo.cmake

Copyright: 2016 The Apache Software Foundation.
Home page: https://kudu.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

This project includes code from Apache Impala (incubating), formerly
Impala. The Impala code and rights were donated to the ASF as part of the
Incubator process after the initial code imports into Apache Parquet.

Copyright: 2012 Cloudera, Inc.
Copyright: 2016 The Apache Software Foundation.
Home page: http://impala.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

This project includes code from Apache Aurora.

* dev/release/{release,changelog,release-candidate} are based on the scripts
 from
  Apache Aurora

Copyright: 2016 The Apache Software Foundation.
Home page: https://aurora.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

This project includes code from the Google styleguide.

* cpp/build-support/cpplint.py is based on the scripts from the Google
 styleguide.

Copyright: 2009 Google Inc. All rights reserved.
Homepage: https://github.com/google/styleguide
License: 3-clause BSD

--------------------------------------------------------------------------------

This project includes code from Snappy.

* cpp/cmake_modules/{SnappyCMakeLists.txt,SnappyConfig.h} are based on code
  from Google's Snappy project.

Copyright: 2009 Google Inc. All rights reserved.
Homepage: https://github.com/google/snappy
License: 3-clause BSD

--------------------------------------------------------------------------------

This project includes code from the manylinux project.

* python/manylinux1/scripts/{build_python.sh,python-tag-abi-tag.py,
  requirements.txt} are based on code from the manylinux project.

Copyright: 2016 manylinux
Homepage: https://github.com/pypa/manylinux
License: The MIT License (MIT)
```

```
--------------------------------------------------------------------------------

This project includes code from the cymove project:

* python/pyarrow/includes/common.pxd includes code from the cymove project

The MIT License (MIT)
Copyright (c) 2019 Omer Ozarslan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE
OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

The projects includes code from the Ursabot project under the dev/archery
directory.

License: BSD 2-Clause

Copyright 2019 RStudio, Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
--------------------------------------------------------------------------------

This project include code from mingw-w64.

* cpp/src/arrow/util/cpu-info.cc has a polyfill for mingw-w64 < 5

Copyright (c) 2009 - 2013 by the mingw-w64 project
Homepage: https://mingw-w64.org
License: Zope Public License (ZPL) Version 2.1.

---------------------------------------------------------------------------------

This project include code from Google's Asylo project.

* cpp/src/arrow/result.h is based on status_or.h

Copyright (c)  Copyright 2017 Asylo authors
Homepage: https://asylo.dev/
License: Apache 2.0

--------------------------------------------------------------------------------

This project includes code from Google's protobuf project

* cpp/src/arrow/result.h ARROW_ASSIGN_OR_RAISE is based off ASSIGN_OR_RETURN
* cpp/src/arrow/util/bit_stream_utils.h contains code from
 wire_format_lite.h

Copyright 2008 Google Inc.  All rights reserved.
Homepage: https://developers.google.com/protocol-buffers/
License:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
```

```
--------------------------------------------------------------------------------

3rdparty dependency LLVM is statically linked in certain binary
 distributions.
Additionally some sections of source code have been derived from sources in
 LLVM
and have been clearly labeled as such. LLVM has the following license:

==============================================================================
The LLVM Project is under the Apache License v2.0 with LLVM Exceptions:
==============================================================================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

    1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
```

```
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
```

```
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

  5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.

  6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.

  7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.

  8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.

  9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.

  END OF TERMS AND CONDITIONS

  APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

    Copyright [yyyy] [name of copyright owner]

    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.


---- LLVM Exceptions to the Apache 2.0 License ----

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into an Object form of such source code, you
may redistribute such embedded portions in such Object form without
 complying
with the conditions of Sections 4(a), 4(b) and 4(d) of the License.

In addition, if you combine or link compiled forms of this Software with
software that is licensed under the GPLv2 ("Combined Software") and if a
court of competent jurisdiction determines that the patent provision
 (Section
3), the indemnity provision (Section 9) or other Section of the License
conflicts with the conditions of the GPLv2, you may retroactively and
prospectively choose to deem waived or otherwise exclude such Section(s) of
the License, but only in their entirety and only with respect to the
 Combined
Software.

==============================================================================
Software from third parties included in the LLVM Project:
==============================================================================
The LLVM Project contains third party software which is under different
 license
terms. All such code will be identified clearly using at least one of two
mechanisms:
1) It will be in a separate directory tree with its own `LICENSE.txt` or
   `LICENSE` file at the top containing the specific license and
 restrictions
   which apply to that software, or
2) It will contain specific license and restriction terms at the top of
 every
   file.

------------------------------------------------------------------------------

3rdparty dependency gRPC is statically linked in certain binary
distributions, like the python wheels. gRPC has the following license:
```

```
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

3rdparty dependency Apache Thrift is statically linked in certain binary
distributions, like the python wheels. Apache Thrift has the following
 license:

Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

--------------------------------------------------------------------------------

3rdparty dependency Apache ORC is statically linked in certain binary
distributions, like the python wheels. Apache ORC has the following license:

Apache ORC
Copyright 2013-2019 The Apache Software Foundation

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This product includes software developed by Hewlett-Packard:
(c) Copyright [2014-2015] Hewlett-Packard Development Company, L.P

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
--------------------------------------------------------------------------------

3rdparty dependency zstd is statically linked in certain binary
distributions, like the python wheels. ZSTD has the following license:

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

3rdparty dependency lz4 is statically linked in certain binary
distributions, like the python wheels. lz4 has the following license:

LZ4 Library
Copyright (c) 2011-2016, Yann Collet
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
```

```
* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

3rdparty dependency Brotli is statically linked in certain binary
distributions, like the python wheels. Brotli has the following license:

Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------------------------------

3rdparty dependency rapidjson is statically linked in certain binary
distributions, like the python wheels. rapidjson and its dependencies have
 the
following licenses:

Tencent is pleased to support the open source community by making RapidJSON
available.

Copyright (C) 2015 THL A29 Limited, a Tencent company, and Milo Yip.
All rights reserved.
```

```
If you have downloaded a copy of the RapidJSON binary from Tencent, please
 note
that the RapidJSON binary is licensed under the MIT License.
If you have downloaded a copy of the RapidJSON source code from Tencent,
 please
note that RapidJSON source code is licensed under the MIT License, except
 for
the third-party components listed below which are subject to different
 license
terms.  Your integration of RapidJSON into your own projects may require
compliance with the MIT License, as well as the other licenses applicable to
the third-party components included within RapidJSON. To avoid the
 problematic
JSON license in your own projects, it's sufficient to exclude the
bin/jsonchecker/ directory, as it's the only code under the JSON license.
A copy of the MIT License is included in this file.

Other dependencies and licenses:

    Open Source Software Licensed Under the BSD License:
    --------------------------------------------------------------------

    The msinttypes r29
    Copyright (c) 2006-2013 Alexander Chemeris
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
 met:

    * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
    * Neither the name of  copyright holder nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 ANY
    EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
    WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
    DISCLAIMED. IN NO EVENT SHALL THE REGENTS AND CONTRIBUTORS BE LIABLE FOR
    ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR
    SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH
    DAMAGE.

    Terms of the MIT License:
    --------------------------------------------------------------------

    Permission is hereby granted, free of charge, to any person obtaining a
```

```
    copy of this software and associated documentation files (the
 "Software"),
    to deal in the Software without restriction, including without
 limitation
    the rights to use, copy, modify, merge, publish, distribute, sublicense,
    and/or sell copies of the Software, and to permit persons to whom the
    Software is furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
    in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
    DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

3rdparty dependency snappy is statically linked in certain binary
distributions, like the python wheels. snappy has the following license:

Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Google Inc. nor the names of its contributors may
 be
      used to endorse or promote products derived from this software without
      specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===

Some of the benchmark data in testdata/ is licensed differently:

 - fireworks.jpeg is Copyright 2013 Steinar H. Gunderson, and
   is licensed under the Creative Commons Attribution 3.0 license
   (CC-BY-3.0). See https://creativecommons.org/licenses/by/3.0/
```

```
   for more information.

 - kppkn.gtb is taken from the Gaviota chess tablebase set, and
   is licensed under the MIT License. See
   https://sites.google.com/site/gaviotachessengine/Home/endgame-
tablebases-1
   for more information.

 - paper-100k.pdf is an excerpt (bytes 92160 to 194560) from the paper
   “Combinatorial Modeling of Chromatin Features Quantitatively Predicts DNA
   Replication Timing in _Drosophila_” by Federico Comoglio and Renato Paro,
   which is licensed under the CC-BY license. See
   http://www.ploscompbiol.org/static/license for more ifnormation.

 - alice29.txt, asyoulik.txt, plrabn12.txt and lcet10.txt are from Project
   Gutenberg. The first three have expired copyrights and are in the public
   domain; the latter does not have expired copyright, but is still in the
   public domain according to the license information
   (http://www.gutenberg.org/ebooks/53).

--------------------------------------------------------------------------------

3rdparty dependency gflags is statically linked in certain binary
distributions, like the python wheels. gflags has the following license:

Copyright (c) 2006, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

3rdparty dependency glog is statically linked in certain binary
distributions, like the python wheels. glog has the following license:

Copyright (c) 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


A function gettimeofday in utilities.cc is based on

http://www.google.com/codesearch/p?hl=en#dR3YEbitojA/
COPYING&q=GetSystemTimeAsFileTime%20license:bsd

The license of this code is:

Copyright (c) 2003-2008, Jouni Malinen <j@w1.fi> and contributors
All Rights Reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name(s) of the above-listed copyright holder(s) nor the
   names of its contributors may be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
```

```
3rdparty dependency re2 is statically linked in certain binary
distributions, like the python wheels. re2 has the following license:

Copyright (c) 2009 The RE2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its contributors
      may be used to endorse or promote products derived from this
      software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

3rdparty dependency c-ares is statically linked in certain binary
distributions, like the python wheels. c-ares has the following license:

# c-ares license

Copyright (c) 2007 - 2018, Daniel Stenberg with many contributors, see
 AUTHORS
file.

Copyright 1998 by the Massachusetts Institute of Technology.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
 that
the above copyright notice appear in all copies and that both that copyright
notice and this permission notice appear in supporting documentation, and
 that
the name of M.I.T. not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.
M.I.T. makes no representations about the suitability of this software for
 any
purpose.  It is provided "as is" without express or implied warranty.

--------------------------------------------------------------------------------

3rdparty dependency zlib is redistributed as a dynamically linked shared
library in certain binary distributions, like the python wheels. In the
 future
this will likely change to static linkage. zlib has the following license:

zlib.h -- interface of the 'zlib' general purpose compression library
```

```
  version 1.2.11, January 15th, 2017

  Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

--------------------------------------------------------------------------------

3rdparty dependency openssl is redistributed as a dynamically linked shared
library in certain binary distributions, like the python wheels. openssl
preceding version 3 has the following license:

  LICENSE ISSUES
  ==============

  The OpenSSL toolkit stays under a double license, i.e. both the conditions
 of
  the OpenSSL License and the original SSLeay license apply to the toolkit.
  See below for the actual license texts.

  OpenSSL License
  ---------------

/* ====================================================================
 * Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
```

```
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
 * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 * ====================================================================
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com).  This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 *
 */

 Original SSLeay License
 -----------------------

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to.  The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given
 attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
```

```
 *    must display the following acknowledgement:
 *    "This product includes cryptographic software written by
 *     Eric Young (eay@cryptsoft.com)"
 *    The word 'cryptographic' can be left out if the rouines from the
 library
 *    being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof)
 from
 *    the apps directory (application code) you must include an
 acknowledgement:
 *    "This product includes software written by Tim Hudson
 (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
 * The licence and distribution terms for any publically available version
 or
 * derivative of this code cannot be changed.  i.e. this code cannot simply
 be
 * copied and put under another distribution licence
 * [including the GNU Public Licence.]
 */

--------------------------------------------------------------------------------

This project includes code from the rtools-backports project.

* ci/scripts/PKGBUILD and ci/scripts/r_windows_build.sh are based on code
  from the rtools-backports project.

Copyright: Copyright (c) 2013 - 2019, Алексей and Jeroen Ooms.
All rights reserved.
Homepage: https://github.com/r-windows/rtools-backports
License: 3-clause BSD

--------------------------------------------------------------------------------

Some code from pandas has been adapted for the pyarrow codebase. pandas is
available under the 3-clause BSD license, which follows:

pandas license
==============

Copyright (c) 2011-2012, Lambda Foundry, Inc. and PyData Development Team
All rights reserved.

Copyright (c) 2008-2011 AQR Capital Management, LLC
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the copyright holder nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

Some bits from DyND, in particular aspects of the build system, have been
adapted from libdynd and dynd-python under the terms of the BSD 2-clause
license

The BSD 2-Clause License

    Copyright (C) 2011-12, Dynamic NDArray Developers
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

        * Redistributions of source code must retain the above copyright
           notice, this list of conditions and the following disclaimer.

        * Redistributions in binary form must reproduce the above
           copyright notice, this list of conditions and the following
           disclaimer in the documentation and/or other materials provided
           with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
    OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
    SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
    DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
    THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
    (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Dynamic NDArray Developers list:

 * Mark Wiebe
```

```
 * Continuum Analytics

--------------------------------------------------------------------------------

Some source code from Ibis (https://github.com/cloudera/ibis) has been
 adapted
for PyArrow. Ibis is released under the Apache License, Version 2.0.

--------------------------------------------------------------------------------

dev/tasks/homebrew-formulae/apache-arrow.rb has the following license:

BSD 2-Clause License

Copyright (c) 2009-present, Homebrew contributors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------

cpp/src/arrow/vendored/base64.cpp has the following license

ZLIB License

Copyright (C) 2004-2017 René Nyffenegger

This source code is provided 'as-is', without any express or implied
warranty. In no event will the author be held liable for any damages arising
from the use of this software.

Permission is granted to anyone to use this software for any purpose,
 including
commercial applications, and to alter it and redistribute it freely, subject
 to
the following restrictions:

1. The origin of this source code must not be misrepresented; you must not
   claim that you wrote the original source code. If you use this source
 code
   in a product, an acknowledgment in the product documentation would be
```

```
   appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original source code.

3. This notice may not be removed or altered from any source distribution.

René Nyffenegger rene.nyffenegger@adp-gmbh.ch

--------------------------------------------------------------------------------

This project includes code from Folly.

 * cpp/src/arrow/vendored/ProducerConsumerQueue.h

is based on Folly's

 * folly/Portability.h
 * folly/lang/Align.h
 * folly/ProducerConsumerQueue.h

Copyright: Copyright (c) Facebook, Inc. and its affiliates.
Home page: https://github.com/facebook/folly
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

The file cpp/src/arrow/vendored/musl/strptime.c has the following license

Copyright © 2005-2020 Rich Felker, et al.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

The file cpp/cmake_modules/BuildUtils.cmake contains code from

https://gist.github.com/cristianadam/ef920342939a89fae3e8a85ca9459b49

which is made available under the MIT license

Copyright (c) 2019 Cristian Adam

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/portable-snippets/ contain code from

https://github.com/nemequ/portable-snippets

and have the following copyright notice:

Each source file contains a preamble explaining the license situation
for that file, which takes priority over this file.  With the
exception of some code pulled in from other repositories (such as
µnit, an MIT-licensed project which is used for testing), the code is
public domain, released using the CC0 1.0 Universal dedication (*).

(*) https://creativecommons.org/publicdomain/zero/1.0/legalcode

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/fast_float/ contain code from

https://github.com/lemire/fast_float

which is made available under the Apache License 2.0.

--------------------------------------------------------------------------------

The file python/pyarrow/vendored/docscrape.py contains code from

https://github.com/numpy/numpydoc/

which is made available under the BSD 2-clause license.

--------------------------------------------------------------------------------

The file python/pyarrow/vendored/version.py contains code from

https://github.com/pypa/packaging/

which is made available under both the Apache license v2.0 and the
BSD 2-clause license.

--------------------------------------------------------------------------------

The files in cpp/src/arrow/vendored/pcg contain code from

https://github.com/imneme/pcg-cpp
```

```
and have the following copyright notice:

Copyright 2014-2019 Melissa O'Neill <oneill@pcg-random.org>,
                    and the PCG Project contributors.

SPDX-License-Identifier: (Apache-2.0 OR MIT)

Licensed under the Apache License, Version 2.0 (provided in
LICENSE-APACHE.txt and at http://www.apache.org/licenses/LICENSE-2.0)
or under the MIT license (provided in LICENSE-MIT.txt and at
http://opensource.org/licenses/MIT), at your option. This file may not
be copied, modified, or distributed except according to those terms.

Distributed on an "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, either
express or implied.  See your chosen license for details.

--------------------------------------------------------------------------------
r/R/dplyr-count-tally.R (some portions)

Some portions of this file are derived from code from

https://github.com/tidyverse/dplyr/

which is made available under the MIT license

Copyright (c) 2013-2019 RStudio and others.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the “Software”), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

The file src/arrow/util/io_util.cc contains code from the CPython project
which is made available under the Python Software Foundation License Version
 2.

--------------------------------------------------------------------------------

3rdparty dependency opentelemetry-cpp is statically linked in certain binary
distributions. opentelemetry-cpp is made available under the Apache License
 2.0.

Copyright The OpenTelemetry Authors
SPDX-License-Identifier: Apache-2.0
```

```
--------------------------------------------------------------------------------

ci/conan/ is based on code from Conan Package and Dependency Manager.

Copyright (c) 2019 Conan.io

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------

3rdparty dependency UCX is redistributed as a dynamically linked shared
library in certain binary distributions. UCX has the following license:

Copyright (c) 2014-2015      UT-Battelle, LLC. All rights reserved.
Copyright (C) 2014-2020      Mellanox Technologies Ltd. All rights reserved.
Copyright (C) 2014-2015      The University of Houston System. All rights
 reserved.
Copyright (C) 2015           The University of Tennessee and The University
                             of Tennessee Research Foundation. All rights
 reserved.
Copyright (C) 2016-2020      ARM Ltd. All rights reserved.
Copyright (c) 2016           Los Alamos National Security, LLC. All rights
 reserved.
Copyright (C) 2016-2020      Advanced Micro Devices, Inc.  All rights
 reserved.
Copyright (C) 2019           UChicago Argonne, LLC.  All rights reserved.
Copyright (c) 2018-2020      NVIDIA CORPORATION. All rights reserved.
Copyright (C) 2020           Huawei Technologies Co., Ltd. All rights
 reserved.
Copyright (C) 2016-2020      Stony Brook University. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The file dev/tasks/r/github.packages.yml contains code from

https://github.com/ursa-labs/arrow-r-nightly

which is made available under the Apache License 2.0.

--------------------------------------------------------------------------------
.github/actions/sync-nightlies/action.yml  (some portions)

Some portions of this file are derived from code from

https://github.com/JoshPiper/rsync-docker

which is made available under the MIT license

Copyright (c) 2020 Joshua Piper

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------
.github/actions/sync-nightlies/action.yml (some portions)

Some portions of this file are derived from code from

https://github.com/burnett01/rsync-deployments

which is made available under the MIT license

Copyright (c) 2019-2022 Contention
```

```
Copyright (c) 2019-2022 Burnett01

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------
numpy and numpy Bundled Licenses

Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
```

```
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

------------------

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause

Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----
Name: tempita
Files: tools/npy_tempita/*
License: MIT

License
-------

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
----

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT

/*
 * Copyright (c) 2014 Ryan Juckett
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 copy
 * of this software and associated documentation files (the "Software"), to
 * deal in the Software without restriction, including without limitation
 the
 * rights to use, copy, modify, merge, publish, distribute, sublicense, and/
or
 * sell copies of the Software, and to permit persons to whom the Software
 is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
 * IN THE SOFTWARE.
 */

/*
 * This file contains a modified version of Ryan Juckett's Dragon4
 * implementation, obtained from http://www.ryanjuckett.com,
 * which has been ported from C++ to C and which has
 * modifications specific to printing floats in numpy.
 *
 * Ryan Juckett's original code was under the Zlib license; he gave numpy
 * permission to include it under the MIT license instead.
 */

----

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib

  zlib License
  ------------

  Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.
----
```

Provider: The Apache Software Foundation / Component(s): sshd-core 2.8.0

```
Copyright: The Apache Software Foundation

 License: Apache 2.0
/*
 * Licensed to the Apache Software Foundation (ASF) under one
 * or more contributor license agreements. See the NOTICE file
 * distributed with this work for additional information
 * regarding copyright ownership. The ASF licenses this file
 * to you under the Apache License, Version 2.0 (the
 * "License"); you may not use this file except in compliance
```

```
 * with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing,
 * software distributed under the License is distributed on an
 * "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 * KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */

== Text of license (Apache 2.0)


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
```

```
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
```

```
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


 ------------- Notices -------------
Apache MINA SSHD
Copyright 2008-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Please refer to each LICENSE..txt file for the
license terms of the components that Apache MINA depends on.

Message logging is provided by the SLF4J library package,
which is open source software, written by Ceki GÃ¼lcÃ¼, and
copyright by SLF4J.ORG and QOS.ch.  The original software is
available from

   http://www.slf4j.org/


---------------------------- Fourth-party information ----------------------

------- Dependency - org.apache.sshd:sshd-common

 Copyright: The Apache Software Foundation

 License: Apache 2.0

 ------- Dependency - org.slf4j:jcl-over-slf4j

 Copyright: QOS.ch

 License: Apache 2.0;
 License: MIT
== Text of license (MIT)
Copyright (c) 2004-2017 QOS.ch
All rights reserved.
```

```
Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


------- Dependency - org.slf4j:slf4j-api

 Copyright: QOS.ch

 License: MIT

== Text of license (MIT)

Copyright (c) 2004-2007 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: The Apache Software Foundation / Component(s): swagger-parser 1.0.64

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2020 SmartBear Software Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.

==========================================================================================

FOURTH PARTY DEPENDENCIES:
-------------separator-------------------
FOURTH PARTY DEPENDENCY #1
commons-io:
Copyright 2002-2021 The Apache Software Foundation
Licensed by Apache 2.0
-------------separator-------------------
FOURTH PARTY DEPENDENCY #2
swagger-core
Copyright 2016 SmartBear Software
Licensed by Apache 2.0
-------------separator-------------------
FOURTH PARTY DEPENDENCY #3
Jackson-annotations
Copyright (c)  Tatu Saloranta tatu<at>fasterxml.com
Licensed by Apache 2.0
NOTICE:
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing

Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


------------separator-------------------
FOURTH PARTY DEPENDENCY #4
Jackson-databind
Copyright (c)  Tatu Saloranta tatu<at>fasterxml.com
Licensed by Apache 2.0
Notice:
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing
Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).
```

```
## Credits
A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
------------separator-------------------
FOURTH PARTY DEPENDENCY #5
Jackson Dataformat YAML
Copyright (c)  Tatu Saloranta tatu<at>fasterxml.com
Licensed by Apache 2.0
Notice:
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing
Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits
A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
------------separator-------------------
FOURTH PARTY DEPENDENCY #6
guava:  -android
Copyright (C) 2008 Google
Licensed by Apache 2.0
------------separator-------------------
FOURTH PARTY DEPENDENCY #7
swagger-models
Copyright  SmartBear Software
Licensed by Apache 2.0
------------separator-------------------
FOURTH PARTY DEPENDENCY #8
validation-api
Copyright 2017 Red Hat Inc.
Licensed by Apache 2.0
------------separator-------------------
FOURTH PARTY DEPENDENCY #9
commons-lang3
Copyright 2001-2014 The Apache Software Foundation
Licensed by Apache 2.0
------------separator-------------------
FOURTH PARTY DEPENDENCY #10
slf4j-api
http://www.opensource.org/licenses/mit-license.php

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
------------separator-------------------
FOURTH PARTY DEPENDENCY #11
swagger-annotations
Copyright 2016 SmartBear Software
Licensed by Apache 2.0
------------separator-------------------
FOURTH PARTY DEPENDENCY #12
SnakeYAML
Copyright
Andrey Somov public.somov<at>gmail.com asomov
Alexander Maslov alexander.maslov<at>gmail.com maslovalex
Jordan Angold jordanangold<at>gmail.com Jordan
Licensed by Apache 2.0
------------separator-------------------
FOURTH PARTY DEPENDENCY #13
Jackson Core
Copyright (c)  Tatu Saloranta tatu<at>fasterxml.com
Licensed by Apache 2.0
Notice:
# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Licensing
Jackson 2.x core and extension components are licensed under Apache License
 2.0
To find the details that apply to this artifact see the accompanying LICENSE
 file.

## Credits
A list of contributors may be found from CREDITS(-2.x) file, which is
 included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
------------separator-------------------
FOURTH PARTY DEPENDENCY #14
JSR305

LICENSE

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
```

```
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

jcip-annotations

== jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

------------separator-------------------
FOURTH PARTY DEPENDENCY #15
Error Prone Annotations
Licensed by Apache 2.0
------------separator-------------------
FOURTH PARTY DEPENDENCY #16
failureaccess
Licensed by Apache 2.0
------------separator-------------------
FOURTH PARTY DEPENDENCY #17
listenablefuture -empty-to-avoid-conflict-with-guava.jar
Licensed by Apache 2.0
------------separator-------------------
```

```
FOURTH PARTY DEPENDENCY #18
J2ObjC Annotations
Licensed by Apache 2.0
------------separator-------------------
FOURTH PARTY DEPENDENCY #19
Checker Qual
Licensed http://opensource.org/licenses/MIT
------------separator-------------------
FOURTH PARTY DEPENDENCY #20
checker-compat-qual
License
-The MIT License http://opensource.org/licenses/MIT
```

Provider: The Apache Software Foundation / Component(s): Thrift Java Software Library 0.14.0

```
Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/)

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------
SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

--------------------------------------------------
Portions of the following files are licensed under the MIT License:

  lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

--------------------------------------------------
For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
 components:

#   Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
#   Copying and distribution of this file, with or without
#   modification, are permitted in any medium without royalty provided
#   the copyright notice and this notice are preserved.

--------------------------------------------------
For the lib/nodejs/lib/thrift/json_parse.js:

/*
```

```
    json_parse.js
    2015-05-02
    Public Domain.
    NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
(By Douglas Crockford <douglas@crockford.com>)

--------------------------------------------------

Dependency: org.apache.httpcomponents:httpclient:4.5.10

Apache HttpComponents Client
Copyright 1999-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

--------------------------------------------------

Dependency: org.apache.httpcomponents:httpcore:4.4.13

Apache HttpComponents Core
Copyright 2005-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

--------------------------------------------------

Dependency: commons-logging:commons-logging:1.2

Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

--------------------------------------------------

Dependency: commons-codec:commons-codec:1.11

Apache Commons Codec
Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

==============================================================================

The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
```

Provider: The Apache Software Foundation / Component(s): Tika 1.26

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
```

```
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
```

```
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
```

```
   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=============================================
TIKA-CORE references this additional 4th party dependency
=============================================

BNDLIB 1.50.0
-----------
- no copyright notice found on homepage, but source code search revealed:
Copyright (c) aQute (2000, 2014). All Rights Reserved.

Homepage URL: http://bnd.bndtools.org/
released under Apache 2.0 license.

==================================================================================
APACHE TIKA SUBCOMPONENTS
==================================================================================

TIKA-CORE
------------------

NOTICE
---------
Apache Tika core
Copyright 2007-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

APACHE TIKA SUBCOMPONENTS ( tika-core-1.24.1.jar\META-INF\LICENSE )

Apache Tika includes a number of subcomponents with separate copyright
 notices
and license terms. Your use of these subcomponents is subject to the terms
 and
conditions of the following licenses.

MIME type information from file-4.26.tar.gz (http://www.darwinsys.com/file/)

    Copyright (c) Ian F. Darwin 1986, 1987, 1989, 1990, 1991, 1992, 1994,
 1995.
    Software written by Ian F. Darwin and others;
    maintained 1994- Christos Zoulas.

    This software is not subject to any export provision of the United
 States
    Department of Commerce, and may be exported to any country or planet.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
```

```
    1. Redistributions of source code must retain the above copyright
       notice immediately at the beginning of the file, without
 modification,
       this list of conditions, and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 FOR
    ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.


IPTC Photo Metadata descriptions are taken from the IPTC Photo Metadata
Standard, July 2010, Copyright 2010 International Press Telecommunications
Council.

  1. The Specifications and Materials are licensed for use only on the
 condition that you agree to be bound by the terms of this license. Subject
 to this and other licensing requirements contained herein, you may, on a
 non-exclusive basis, use the Specifications and Materials.
  2. The IPTC openly provides the Specifications and Materials for voluntary
 use by individuals, partnerships, companies, corporations, organizations
 and any other entity for use at the entity's own risk. This disclaimer,
 license and release is intended to apply to the IPTC, its officers,
 directors, agents, representatives, members, contributors, affiliates,
 contractors, or co-venturers acting jointly or severally.
  3. The Document and translations thereof may be copied and furnished
 to others, and derivative works that comment on or otherwise explain it
 or assist in its implementation may be prepared, copied, published and
 distributed, in whole or in part, without restriction of any kind, provided
 that the copyright and license notices and references to the IPTC appearing
 in the Document and the terms of this Specifications License Agreement
 are included on all such copies and derivative works. Further, upon the
 receipt of written permission from the IPTC, the Document may be modified
 for the purpose of developing applications that use IPTC Specifications or
 as required to translate the Document into languages other than English.
  4. Any use, duplication, distribution, or exploitation of the Document and
 Specifications and Materials in any manner is at your own risk.
  5. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE REGARDING THE ACCURACY,
 ADEQUACY, COMPLETENESS, LEGALITY, RELIABILITY OR USEFULNESS OF ANY
 INFORMATION CONTAINED IN THE DOCUMENT OR IN ANY SPECIFICATION OR OTHER
 PRODUCT OR SERVICE PRODUCED OR SPONSORED BY THE IPTC. THE DOCUMENT AND THE
 INFORMATION CONTAINED HEREIN AND INCLUDED IN ANY SPECIFICATION OR OTHER
 PRODUCT OR SERVICE OF THE IPTC IS PROVIDED ON AN "AS IS" BASIS. THE IPTC
 DISCLAIMS ALL WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT
 NOT LIMITED TO, ANY ACTUAL OR ASSERTED WARRANTY OF NON-INFRINGEMENT OF
 PROPRIETARY RIGHTS, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE.
 NEITHER THE IPTC NOR ITS CONTRIBUTORS SHALL BE HELD LIABLE FOR ANY IMPROPER
 OR INCORRECT USE OF INFORMATION. NEITHER THE IPTC NOR ITS CONTRIBUTORS
 ASSUME ANY RESPONSIBILITY FOR ANYONE'S USE OF INFORMATION PROVIDED BY
 THE IPTC. IN NO EVENT SHALL THE IPTC OR ITS CONTRIBUTORS BE LIABLE TO
```

ANYONE FOR DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO, COMPENSATORY DAMAGES, LOST PROFITS, LOST DATA OR ANY FORM OF SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES OF ANY KIND WHETHER BASED ON BREACH OF CONTRACT OR WARRANTY, TORT, PRODUCT LIABILITY OR OTHERWISE.

6. The IPTC takes no position regarding the validity or scope of any Intellectual Property or other rights that might be claimed to pertain to the implementation or use of the technology described in the Document or the extent to which any license under such rights might or might not be available. The IPTC does not represent that it has made any effort to identify any such rights. Copies of claims of rights made available for publication, assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of the Specifications and Materials, can be obtained from the Managing Director of the IPTC.

7. By using the Specifications and Materials including the Document in any manner or for any purpose, you release the IPTC from all liabilities, claims, causes of action, allegations, losses, injuries, damages, or detriments of any nature arising from or relating to the use of the Specifications, Materials or any portion thereof. You further agree not to file a lawsuit, make a claim, or take any other formal or informal legal action against the IPTC, resulting from your acquisition, use, duplication, distribution, or exploitation of the Specifications, Materials or any portion thereof. Finally, you hereby agree that the IPTC is not liable for any direct, indirect, special or consequential damages arising from or relating to your acquisition, use, duplication, distribution, or exploitation of the Specifications, Materials or any portion thereof.

8. Specifications and Materials may be downloaded or copied provided that ALL copies retain the ownership, copyright and license notices.

9. Materials may not be edited, modified, or presented in a context that creates a misleading or false impression or statement as to the positions, actions, or statements of the IPTC.

10. The name and trademarks of the IPTC may not be used in advertising, publicity, or in relation to products or services and their names without the specific, written prior permission of the IPTC. Any permitted use of the trademarks of the IPTC, whether registered or not, shall be accompanied by an appropriate mark and attribution, as agreed with the IPTC.

11. Specifications may be extended by both members and non-members to provide additional functionality (Extension Specifications) provided that there is a clear recognition of the IPTC IP and its ownership in the Extension Specifications and the related documentation and provided that the extensions are clearly identified and provided that a perpetual license is granted by the creator of the Extension Specifications for other members and non-members to use the Extension Specifications and to continue extensions of the Extension Specifications. The IPTC does not waive any of its rights in the Specifications and Materials in this context. The Extension Specifications may be considered the intellectual property of their creator. The IPTC expressly disclaims any responsibility for damage caused by an extension to the Specifications.

12. Specifications and Materials may be included in derivative work of both members and non-members provided that there is a clear recognition of the IPTC IP and its ownership in the derivative work and its related documentation. The IPTC does not waive any of its rights in the Specifications and Materials in this context. Derivative work in its entirety may be considered the intellectual property of the creator of the work .The IPTC expressly disclaims any responsibility for damage caused when its IP is used in a derivative context.

13. This Specifications License Agreement is perpetual subject to your conformance to the terms of this Agreement. The IPTC may terminate this Specifications License Agreement immediately upon your breach of this Agreement and, upon such termination you will cease all use, duplication, distribution, and/or exploitation in any manner of the Specifications and Materials.

14. This Specifications License Agreement reflects the entire agreement of the parties regarding the subject matter hereof and supersedes all prior

```
 agreements or representations regarding such matters, whether written or
 oral. To the extent any portion or provision of this Specifications License
 Agreement is found to be illegal or unenforceable, then the remaining
 provisions of this Specifications License Agreement will remain in full
 force and effect and the illegal or unenforceable provision will be
 construed to give it such effect as it may properly have that is consistent
 with the intentions of the parties.
  15. This Specifications License Agreement may only be modified in writing
 signed by an authorized representative of the IPTC.
  16. This Specifications License Agreement is governed by the law of United
 Kingdom, as such law is applied to contracts made and fully performed
 in the United Kingdom. Any disputes arising from or relating to this
 Specifications License Agreement will be resolved in the courts of the
 United Kingdom. You consent to the jurisdiction of such courts over you and
 covenant not to assert before such courts any objection to proceeding in
 such forums.

TIKA-PARSERS
------------------

NOTICE
----------
Apache Tika parsers
Copyright 2007-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

APACHE TIKA SUBCOMPONENTS (tika-parsers-1.24.1.jar\META-INF\LICENSE)

Apache Tika includes a number of subcomponents with separate copyright
 notices
and license terms. Your use of these subcomponents is subject to the terms
 and
conditions of the following licenses.

Charset detection code from ICU4J (http://site.icu-project.org/)

    Copyright (c) 1995-2009 International Business Machines Corporation
    and others

    All rights reserved.

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, and/or sell copies of the Software, and to permit persons
    to whom the Software is furnished to do so, provided that the above
    copyright notice(s) and this permission notice appear in all copies
    of the Software and that both the above copyright notice(s) and this
    permission notice appear in supporting documentation.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
    OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY
 RIGHTS.
    IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
 NOTICE
    BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
 DAMAGES,
    OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
    WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
```

```
    ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
    SOFTWARE.

    Except as contained in this notice, the name of a copyright holder shall
    not be used in advertising or otherwise to promote the sale, use or
 other
    dealings in this Software without prior written authorization of the
    copyright holder.


JUnRAR (https://github.com/edmund-wagner/junrar/)

      JUnRAR is based on the UnRAR tool, and covered by the same license
      It was formerly available from http://java-unrar.svn.sourceforge.net/

 ******    *****   ******   UnRAR - free utility for RAR archives
 **   **  **   **  **   **  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
 ******   *******  ******    License for use and distribution of
 **   **  **   **  **   **   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
 **   **  **   **  **   **         FREE portable version
                                   ~~~~~~~~~~~~~~~~~~~~~

      The source code of UnRAR utility is freeware. This means:

   1. All copyrights to RAR and the utility UnRAR are exclusively
      owned by the author - Alexander Roshal.

   2. The UnRAR sources may be used in any software to handle RAR
      archives without limitations free of charge, but cannot be used
      to re-create the RAR compression algorithm, which is proprietary.
      Distribution of modified UnRAR sources in separate form or as a
      part of other software is permitted, provided that it is clearly
      stated in the documentation and source comments that the code may
      not be used to develop a RAR (WinRAR) compatible archiver.

   3. The UnRAR utility may be freely distributed. It is allowed
      to distribute UnRAR inside of other software packages.

   4. THE RAR ARCHIVER AND THE UnRAR UTILITY ARE DISTRIBUTED "AS IS".
      NO WARRANTY OF ANY KIND IS EXPRESSED OR IMPLIED.  YOU USE AT
      YOUR OWN RISK. THE AUTHOR WILL NOT BE LIABLE FOR DATA LOSS,
      DAMAGES, LOSS OF PROFITS OR ANY OTHER KIND OF LOSS WHILE USING
      OR MISUSING THIS SOFTWARE.

   5. Installing and using the UnRAR utility signifies acceptance of
      these terms and conditions of the license.

   6. If you don't agree with terms of the license you must remove
      UnRAR files from your storage devices and cease to use the
      utility.

      Thank you for your interest in RAR and UnRAR.  Alexander L. Roshal

Sqlite (included in the "provided" org.xerial's sqlite-jdbc)
    Sqlite is in the Public Domain.  For details
    see: https://www.sqlite.org/copyright.html

Two photos in test-documents (testWebp_Alpha_Lossy.webp and
 testWebp_Alpha_Lossless.webp)
    are in the public domain.  These files were retrieved from:
    https://github.com/drewnoakes/metadata-extractor-images/tree/master/webp
    These photos are also available here:
    https://developers.google.com/speed/webp/gallery2#webp_links
    Credits for the photo:
```

```
    "Free Stock Photo in High Resolution - Yellow Rose 3 - Flowers"
    Image Author: Jon Sullivan

=======================================================
Additional 4th party dependencies in Tika released under Apache 2.0 license
=======================================================

NOTICE
---------
Apache POI
Copyright 2003-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This product contains parts that were originally based on software from BEA.
Copyright (c) 2000-2003, BEA Systems, <http://www.bea.com/> (dead link),
which was acquired by Oracle Corporation in 2008.
<http://www.oracle.com/us/corporate/Acquisitions/bea/index.html>
<https://en.wikipedia.org/wiki/BEA_Systems>

This product contains W3C XML Schema documents. Copyright 2001-2003 (c)
World Wide Web Consortium (Massachusetts Institute of Technology, European
Research Consortium for Informatics and Mathematics, Keio University)

This product contains the chunks_parse_cmds.tbl file from the vsdump
 program.
Copyright (C) 2006-2007 Valek Filippov (frob@df.ru)

This product contains parts of the eID Applet project
<http://eid-applet.googlecode.com> and <https://github.com/e-Contract/eid-
applet>.
Copyright (c) 2009-2014
FedICT (federal ICT department of Belgium), e-Contract.be BVBA (https://
www.e-contract.be),
Bart Hanssens from FedICT

APACHE POI SUBCOMPONENTS (poi-4.1.2.jar\META-INF\LICENSE)

Apache POI includes subcomponents with separate copyright notices and
license terms. Your use of these subcomponents is subject to the terms
and conditions of the following licenses:


Office Open XML schemas (ooxml-schemas-1.*.jar)

    The Office Open XML schema definitions used by Apache POI are
    a part of the Office Open XML ECMA Specification (ECMA-376, [1]).
    As defined in section 9.4 of the ECMA bylaws [2], this specification
    is available to all interested parties without restriction:

        9.4 All documents when approved shall be made available to
            all interested parties without restriction.

    Furthermore, both Microsoft and Adobe have granted patent licenses
    to this work [3,4,5].

    [1] http://www.ecma-international.org/publications/standards/
Ecma-376.htm
    [2] http://www.ecma-international.org/memento/Ecmabylaws.htm
    [3] http://www.microsoft.com/openspecifications/en/us/programs/osp/
default.aspx
    [4] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma
%20PATENT/
```

```
        Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent
%20Declaration.pdf
    [5] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma
%20PATENT/
        Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf


Bouncy Castle library (bcprov-*.jar, bcpg-*.jar, bcpkix-*.jar)

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
    deal in the Software without restriction, including without limitation
 the
    rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or
    sell copies of the Software, and to permit persons to whom the Software
 is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
    IN THE SOFTWARE.

Hamcrest library (hamcrest-*.jar) & CuvesAPI / Curve API

    BSD License

    Copyright (c) 2000-2006, www.hamcrest.org
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
 met:

    Redistributions of source code must retain the above copyright notice,
 this
    list of conditions and the following disclaimer. Redistributions in
 binary
    form must reproduce the above copyright notice, this list of conditions
 and
    the following disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name of Hamcrest nor the names of its contributors may be
 used
    to endorse or promote products derived from this software without
 specific
    prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
```

```
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
    LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
    SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
    INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
    CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
    ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE
    POSSIBILITY OF SUCH DAMAGE.

SLF4J library (slf4j-api-*.jar)

    Copyright (c) 2004-2013 QOS.ch
    All rights reserved.

    Permission is hereby granted, free  of charge, to any person obtaining
    a  copy  of this  software  and  associated  documentation files  (the
    "Software"), to  deal in  the Software without  restriction, including
    without limitation  the rights to  use, copy, modify,  merge, publish,
    distribute,  sublicense, and/or sell  copies of  the Software,  and to
    permit persons to whom the Software  is furnished to do so, subject to
    the following conditions:

    The  above  copyright  notice  and  this permission  notice  shall  be
    included in all copies or substantial portions of the Software.

    THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
    EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
    MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
    LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
    OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
    WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

inbot-utils (https://github.com/Inbot/inbot-utils)

        The MIT License (MIT)

        Copyright (c) 2015 Inbot

        Permission is hereby granted, free of charge, to any person
 obtaining a copy
        of this software and associated documentation files (the
 "Software"), to deal
        in the Software without restriction, including without limitation
 the rights
        to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
        copies of the Software, and to permit persons to whom the Software
 is
        furnished to do so, subject to the following conditions:

        The above copyright notice and this permission notice shall be
 included in all
        copies or substantial portions of the Software.

        THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR
        IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
```

```
        FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
 SHALL THE
        AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
        LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM,
        OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
        SOFTWARE.
```

Provider: The Apache Software Foundation / Component(s): xerces-C++ 3.2.2

```
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
```

```
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
=========================================================================
   ==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
   ==  Version 2.0, in this case for the Apache Xerces distribution.      ==
   =========================================================================
   This product includes software developed by
   The Apache Software Foundation (http://www.apache.org/).
```

```
   Portions of this software were originally based on the following:
     - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
```

Provider: The Apache Software Foundation / Component(s): Zeppelin 0.9.0

```
   Zeppelin 0.9.0

org.apache.zeppelin:zeppelin-interpreter:0.9.0
org.apache.zeppelin:zeppelin-common:0.9.0
org.apache.zeppelin:zeppelin-display:0.9.0
org.apache.zeppelin:zeppelin-shell:0.9.0
org.apache.zeppelin:zeppelin-python:0.9.0
org.apache.zeppelin:zeppelin-jupyter-interpreter:0.9.0
org.apache.zeppelin:zeppelin-kotlin:0.9.0
org.apache.zeppelin:r:0.9.0
org.apache.zeppelin:spark-interpreter:0.9.0
org.apache.zeppelin:spark-scala-2.10:0.9.0
org.apache.zeppelin:spark-scala-2.11:0.9.0
org.apache.zeppelin:spark-scala-2.12:0.9.0
org.apache.zeppelin:spark-shims:0.9.0
org.apache.zeppelin:spark1-shims:0.9.0
org.apache.zeppelin:spark2-shims:0.9.0
org.apache.zeppelin:spark3-shims:0.9.0

Apache Zeppelin
Copyright 2015 - 2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were developed at NFLabs, Inc. (http://
www.nflabs.com)


# Third-party library binaries

1. libpty binary library

   * Pseudo terminal(PTY) implementation in Java
   * (Eclipse Public License) pty4j - http://www.eclipse.org/legal/epl-
v10.html


// ---------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,




// Version 2.0, in this case for Zeppelin: Interpreter


// ----------------------------------------------------------------------

Zeppelin: Interpreter
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
This product includes software, Kryo, developed by


$project.organization.name ($project.organization.url).
This product includes software, MinLog, developed by


$project.organization.name ($project.organization.url).
This product includes software, ReflectASM, developed by


$project.organization.name ($project.organization.url).
This product includes software, FindBugs-jsr305, developed by



$project.organization.name ($project.organization.url).
This product includes software, Gson, developed by


$project.organization.name ($project.organization.url).
This product includes software, error-prone annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, Guava: Google Core Libraries for Java,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, J2ObjC Annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, config, developed by


com.typesafe ($project.organization.url).
This product includes software, Apache Commons Codec, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, Commons Configuration, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Commons Lang, developed by


The Apache Software Foundation (http://www.apache.org/).
This product includes software, Atomix, developed by


$project.organization.name ($project.organization.url).
```

```
This product includes software, Atomix Cluster, developed by



$project.organization.name ($project.organization.url).
This product includes software, Atomix Protocols :: Primary Backup Protocol,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, Atomix Primitive API, developed by




$project.organization.name ($project.organization.url).
This product includes software, Atomix Protocols :: Raft, developed by




$project.organization.name ($project.organization.url).
This product includes software, Atomix Storage, developed by



$project.organization.name ($project.organization.url).
This product includes software, Atomix Utilities, developed by



$project.organization.name ($project.organization.url).
This product includes software, FastClasspathScanner, developed by



$project.organization.name ($project.organization.url).
This product includes software, Netty/Buffer, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Codec, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Common, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Handler, developed by



The Netty Project (http://netty.io/).
This product includes software, Netty/Resolver, developed by



The Netty Project (http://netty.io/).
This product includes software, Netty/Transport, developed by
```

```
The Netty Project (http://netty.io/).
This product includes software, Netty/Transport/Native/Epoll, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Transport/Native/Unix/Common,
 developed by



The Netty Project (http://netty.io/).
This product includes software, JSR-250 Common Annotations for the JavaTM
 Platform,
developed by


$project.organization.name ($project.organization.url).
This product includes software, CDI APIs, developed by


Seam Framework (http://seamframework.org).
This product includes software, javax.inject, developed by


$project.organization.name ($project.organization.url).
This product includes software, JLine, developed by


$project.organization.name ($project.organization.url).
This product includes software, Apache Log4j, developed by


Apache Software Foundation (http://www.apache.org).
This product includes software, Apache Commons Exec, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Commons Lang, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, Apache Commons Math, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Commons Pool, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache HttpClient, developed by
```

```
The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache HttpCore, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Maven Artifact, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Builder Support, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Model, developed by

The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Model Builder, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Plugin API, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Repository Metadata Model, developed
 by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Artifact Resolver Provider, developed
 by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Artifact Resolver API, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Artifact Resolver Connector Basic,
 developed
by

The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Artifact Resolver Implementation,
 developed
by
```

```
The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Artifact Resolver SPI, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Artifact Resolver Transport File,
 developed
by


The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Artifact Resolver Transport HTTP,
 developed
by


The Apache Software Foundation (https://www.apache.org/).
This product includes software, Maven Artifact Resolver Utilities, developed
 by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Apache Thrift, developed by



$project.organization.name ($project.organization.url).
This product includes software, Zeppelin: Common, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Animal Sniffer Annotations, developed by




Codehaus (http://codehaus.org).
This product includes software, Plexus Classworlds, developed by




Codehaus Plexus (http://codehaus-plexus.github.io/).
This product includes software, Plexus :: Component Annotations, developed
 by



Codehaus (http://www.codehaus.org/).
This product includes software, Plexus Interpolation API, developed by




Codehaus Plexus (http://codehaus-plexus.github.io/).
This product includes software, Plexus Common Utilities, developed by
```

```
Codehaus Plexus (http://codehaus-plexus.github.io/).
This product includes software, org.eclipse.sisu.inject, developed by




The Eclipse Foundation (http://www.eclipse.org/).
This product includes software, org.eclipse.sisu.plexus, developed by




The Eclipse Foundation (http://www.eclipse.org/).
This product includes software, Hamcrest All, developed by


$project.organization.name ($project.organization.url).
This product includes software, Objenesis, developed by


Joe Walnes, Henri Tremblay, Leonardo Mesquita ($project.organization.url).
This product includes software, ASM Core, developed by


ObjectWeb (http://www.objectweb.org/).
This product includes software, JCL 1.2 implemented over SLF4J, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J LOG4J-12 Binding, developed by




QOS.ch (http://www.qos.ch).

// ---------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,




// Version 2.0, in this case for Zeppelin: Common


// ---------------------------------------------------------------------

Zeppelin: Common
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
This product includes software, Gson, developed by


$project.organization.name ($project.organization.url).
This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).

// ---------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,




// Version 2.0, in this case for Zeppelin: Display system apis


// ---------------------------------------------------------------------

Zeppelin: Display system apis
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).

/ --------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,




// Version 2.0, in this case for Zeppelin: Shell interpreter


// ---------------------------------------------------------------------

Zeppelin: Shell interpreter
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software, FindBugs-Annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, FindBugs-jsr305, developed by



$project.organization.name ($project.organization.url).
```

```
This product includes software, Gson, developed by


Google, Inc. (http://www.google.com).
This product includes software, error-prone annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, Guava: Google Core Libraries for Java,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, J2ObjC Annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, jinjava, developed by


$project.organization.name ($project.organization.url).
This product includes software, Apache Commons IO, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, javax.annotation API, developed by




GlassFish Community (https://glassfish.java.net).
This product includes software, Java Servlet API, developed by




GlassFish Community (https://glassfish.dev.java.net).
This product includes software, WebSocket server API, developed by




Oracle (http://www.oracle.com).
This product includes software, WebSocket client API, developed by




Oracle (http://www.oracle.com).
This product includes software, Apache Log4j, developed by


Apache Software Foundation (http://www.apache.org).
This product includes software, Java Native Access, developed by
```

```
$project.organization.name ($project.organization.url).
This product includes software, Java Native Access Platform, developed by




$project.organization.name ($project.organization.url).
This product includes software, Apache Commons Exec, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Commons Lang, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, Zeppelin: Interpreter Shaded, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Checker Qual, developed by


$project.organization.name ($project.organization.url).
This product includes software, Animal Sniffer Annotations, developed by




Codehaus (http://codehaus.org).
This product includes software, Jetty :: Servlet Annotations, developed by




Webtide (https://webtide.com).
This product includes software, Jetty :: Asynchronous HTTP Client, developed
 by



Webtide (https://webtide.com).
This product includes software, Jetty :: Http Utility, developed by




Webtide (https://webtide.com).
This product includes software, Jetty :: IO Utility, developed by




Webtide (https://webtide.com).
This product includes software, Jetty :: JNDI Naming, developed by
```

```
Webtide (https://webtide.com).
This product includes software, Jetty :: Plus, developed by



Webtide (https://webtide.com).
This product includes software, Jetty :: Security, developed by



Webtide (https://webtide.com).
This product includes software, Jetty :: Server Core, developed by



Webtide (https://webtide.com).
This product includes software, Jetty :: Servlet Handling, developed by



Webtide (https://webtide.com).
This product includes software, Jetty :: Utilities, developed by



Webtide (https://webtide.com).
This product includes software, Jetty :: Webapp Application Support,
 developed by



Webtide (https://webtide.com).
This product includes software, Jetty :: XML utilities, developed by



Webtide (https://webtide.com).
This product includes software, Jetty :: Websocket :: javax.websocket ::
 Client Implementation,
developed by


Webtide (https://webtide.com).
This product includes software, Jetty :: Websocket ::
 javax.websocket.server :: Server
Implementation, developed by


Webtide (https://webtide.com).
This product includes software, Jetty :: Websocket :: API, developed by



Webtide (https://webtide.com).
This product includes software, Jetty :: Websocket :: Client, developed by
```

```
Webtide (https://webtide.com).
This product includes software, Jetty :: Websocket :: Common, developed by




Webtide (https://webtide.com).
This product includes software, Jetty :: Websocket :: Server, developed by




Webtide (https://webtide.com).
This product includes software, Jetty :: Websocket :: Servlet Interface,
 developed
by


Webtide (https://webtide.com).
This product includes software, Javassist, developed by


$project.organization.name ($project.organization.url).
This product includes software, JetBrains Java Annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, pty4j, developed by


$project.organization.name ($project.organization.url).
This product includes software, purejavacomm, developed by


$project.organization.name ($project.organization.url).
This product includes software, jsoup, developed by


Jonathan Hedley (http://jonathanhedley.com/).
This product includes software, asm, developed by


OW2 (http://www.ow2.org/).
This product includes software, asm-analysis, developed by


OW2 (http://www.ow2.org/).
This product includes software, asm-commons, developed by


OW2 (http://www.ow2.org/).
This product includes software, asm-tree, developed by


OW2 (http://www.ow2.org/).
This product includes software, JCL 1.2 implemented over SLF4J, developed by
```

```
QOS.ch (http://www.qos.ch).
This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J LOG4J-12 Binding, developed by




QOS.ch (http://www.qos.ch).

// ----------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,




// Version 2.0, in this case for Zeppelin: Python interpreter


// ----------------------------------------------------------------------

Zeppelin: Python interpreter
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software, com.google.api.grpc:proto-google-common-
protos, developed
by


$project.organization.name ($project.organization.url).
This product includes software, FindBugs-jsr305, developed by



$project.organization.name ($project.organization.url).
This product includes software, Gson, developed by


$project.organization.name ($project.organization.url).
This product includes software, error-prone annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, Guava: Google Core Libraries for Java,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, Protocol Buffers [Core], developed by
```

```
Google (http://www.google.com/).
This product includes software, Apache Commons Codec, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, Apache Commons IO, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, io.grpc:grpc-context, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-core, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-netty, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-protobuf, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-protobuf-lite, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-stub, developed by




$project.organization.name ($project.organization.url).
This product includes software, Netty/Buffer, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Codec, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Codec/HTTP, developed by




The Netty Project (http://netty.io/).
```

```
This product includes software, Netty/Codec/HTTP2, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Codec/Socks, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Common, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Handler, developed by



The Netty Project (http://netty.io/).
This product includes software, Netty/Handler/Proxy, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Resolver, developed by



The Netty Project (http://netty.io/).
This product includes software, Netty/Transport, developed by



The Netty Project (http://netty.io/).
This product includes software, OpenCensus, developed by


$project.organization.name ($project.organization.url).
This product includes software, OpenCensus, developed by


$project.organization.name ($project.organization.url).
This product includes software, Apache Log4j, developed by


Apache Software Foundation (http://www.apache.org).
This product includes software, Py4J, developed by


$project.organization.name ($project.organization.url).
This product includes software, Apache Commons Exec, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Commons Lang, developed by
```

```
The Apache Software Foundation (https://www.apache.org/).
This product includes software, Zeppelin: Interpreter Shaded, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Jupyter Interpreter, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Jupyter Interpreter Shaded,
 developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Animal Sniffer Annotations, developed by




MojoHaus (http://www.mojohaus.org).
This product includes software, JCL 1.2 implemented over SLF4J, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J LOG4J-12 Binding, developed by




QOS.ch (http://www.qos.ch).


// ----------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,




// Version 2.0, in this case for Zeppelin: Jupyter Interpreter


// ----------------------------------------------------------------------

Zeppelin: Jupyter Interpreter
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software, com.google.api.grpc:proto-google-common-
protos, developed
```

```
by


$project.organization.name ($project.organization.url).
This product includes software, FindBugs-jsr305, developed by



$project.organization.name ($project.organization.url).
This product includes software, Gson, developed by


$project.organization.name ($project.organization.url).
This product includes software, error-prone annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, Guava: Google Core Libraries for Java,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, Protocol Buffers [Core], developed by




Google (http://www.google.com/).
This product includes software, Apache Commons Codec, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, Apache Commons IO, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, io.grpc:grpc-context, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-core, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-netty, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-protobuf, developed by
```

```
$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-protobuf-lite, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-stub, developed by




$project.organization.name ($project.organization.url).
This product includes software, Netty/Buffer, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Codec, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Codec/HTTP, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Codec/HTTP2, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Codec/Socks, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Common, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Handler, developed by



The Netty Project (http://netty.io/).
This product includes software, Netty/Handler/Proxy, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Resolver, developed by



The Netty Project (http://netty.io/).
This product includes software, Netty/Transport, developed by
```

```
The Netty Project (http://netty.io/).
This product includes software, OpenCensus, developed by


$project.organization.name ($project.organization.url).
This product includes software, OpenCensus, developed by


$project.organization.name ($project.organization.url).
This product includes software, Apache Log4j, developed by


Apache Software Foundation (http://www.apache.org).
This product includes software, Apache Commons Exec, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Commons Lang, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, Zeppelin: Interpreter Shaded, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Animal Sniffer Annotations, developed by




MojoHaus (http://www.mojohaus.org).
This product includes software, JCL 1.2 implemented over SLF4J, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J LOG4J-12 Binding, developed by




QOS.ch (http://www.qos.ch).


// ---------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,
```

```
// Version 2.0, in this case for Zeppelin: Kotlin interpreter


// --------------------------------------------------------------------

Zeppelin: Kotlin interpreter
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software, Apache Log4j, developed by


Apache Software Foundation (http://www.apache.org).
This product includes software, Apache Commons Exec, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Interpreter Shaded, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, IntelliJ IDEA Annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, Trove4J, developed by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-compiler-
embeddable,
developed by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-daemon-
embeddable, developed
by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-reflect,
 developed by



$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-script-runtime,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-scripting-
common, developed
```

```
by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-scripting-
compiler-embeddable,
developed by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-scripting-
compiler-impl-embeddable,
developed by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-scripting-jvm,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-scripting-jvm-
host-embeddable,
developed by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-stdlib,
 developed by



$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-stdlib-common,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, kotlinx-coroutines-core, developed by




$project.organization.name ($project.organization.url).
This product includes software, JCL 1.2 implemented over SLF4J, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J LOG4J-12 Binding, developed by




QOS.ch (http://www.qos.ch).
```

```
// ------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,




// Version 2.0, in this case for Zeppelin: R


// ------------------------------------------------------------------

Zeppelin: R
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software, stream-lib, developed by


$project.organization.name ($project.organization.url).
This product includes software, Kryo Shaded, developed by


$project.organization.name ($project.organization.url).
This product includes software, MinLog, developed by


$project.organization.name ($project.organization.url).
This product includes software, Jackson-annotations, developed by




FasterXML (http://fasterxml.com/).
This product includes software, Jackson-core, developed by


FasterXML (http://fasterxml.com/).
This product includes software, jackson-databind, developed by




FasterXML (http://fasterxml.com/).
This product includes software, Jackson module: Paranamer, developed by




FasterXML (http://fasterxml.com/).
This product includes software, jackson-module-scala, developed by




com.fasterxml.jackson.module ($project.organization.url).
This product includes software, zstd-jni, developed by


com.github.luben ($project.organization.url).
```

```
This product includes software, FindBugs-jsr305, developed by



$project.organization.name ($project.organization.url).
This product includes software, Gson, developed by


$project.organization.name ($project.organization.url).
This product includes software, Guava: Google Core Libraries for Java,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, Protocol Buffers [Core], developed by




Google (http://www.google.com/).
This product includes software, Compress-LZF, developed by


$project.organization.name ($project.organization.url).
This product includes software, ParaNamer Core, developed by



$project.organization.name ($project.organization.url).
This product includes software, chill-java, developed by


com.twitter ($project.organization.url).
This product includes software, chill, developed by


com.twitter ($project.organization.url).
This product includes software, Apache Commons CLI, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Apache Commons Codec, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Apache Commons Collections, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Commons Configuration, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Commons IO, developed by
```

```
The Apache Software Foundation (https://www.apache.org/).
This product includes software, Commons Lang, developed by


The Apache Software Foundation (http://www.apache.org/).
This product includes software, Commons Net, developed by


The Apache Software Foundation (http://www.apache.org/).
This product includes software, Metrics Core, developed by


$project.organization.name ($project.organization.url).
This product includes software, Graphite Integration for Metrics, developed
 by



$project.organization.name ($project.organization.url).
This product includes software, Jackson Integration for Metrics, developed
 by



$project.organization.name ($project.organization.url).
This product includes software, JVM Integration for Metrics, developed by




$project.organization.name ($project.organization.url).
This product includes software, Netty, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/All-in-One, developed by




The Netty Project (https://netty.io/).
This product includes software, JavaBeans(TM) Activation Framework,
 developed by



$project.organization.name ($project.organization.url).
This product includes software, javax.annotation API, developed by




GlassFish Community (https://glassfish.java.net).
This product includes software, Java Servlet API, developed by




GlassFish Community (https://glassfish.dev.java.net).
This product includes software, jsp-api, developed by
```

```
$project.organization.name ($project.organization.url).
This product includes software, Bean Validation API, developed by




$project.organization.name ($project.organization.url).
This product includes software, javax.ws.rs-api, developed by



Oracle Corporation (http://www.oracle.com/).
This product includes software, JAXB API bundle for GlassFish V3, developed
 by



Oracle Corporation (http://www.oracle.com/).
This product includes software, Streaming API for XML, developed by




$project.organization.name ($project.organization.url).
This product includes software, Apache Log4j, developed by


Apache Software Foundation (http://www.apache.org).
This product includes software, pyrolite, developed by


$project.organization.name ($project.organization.url).
This product includes software, Py4J, developed by


$project.organization.name ($project.organization.url).
This product includes software, Apache Avro, developed by


The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Avro IPC, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Avro Mapred API, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Commons Compress, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Commons Crypto, developed by



The Apache Software Foundation (http://www.apache.org/).
```

```
This product includes software, Apache Commons Exec, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Commons Lang, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, Apache Commons Math, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Curator Client, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Curator Framework, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Curator Recipes, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Directory API ASN.1 API, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Directory LDAP API Utilities,
 developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, ApacheDS I18n, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, ApacheDS Protocol Kerberos Codec, developed
 by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Hadoop Annotations, developed by



Apache Software Foundation (http://www.apache.org).
```

```
This product includes software, Apache Hadoop Auth, developed by




Apache Software Foundation (http://www.apache.org).
This product includes software, Apache Hadoop Client, developed by




Apache Software Foundation (http://www.apache.org).
This product includes software, Apache Hadoop Common, developed by




Apache Software Foundation (http://www.apache.org).
This product includes software, Apache Hadoop HDFS, developed by




Apache Software Foundation (http://www.apache.org).
This product includes software, hadoop-mapreduce-client-app, developed by




Apache Software Foundation (http://www.apache.org).
This product includes software, hadoop-mapreduce-client-common, developed by




Apache Software Foundation (http://www.apache.org).
This product includes software, hadoop-mapreduce-client-core, developed by




Apache Software Foundation (http://www.apache.org).
This product includes software, hadoop-mapreduce-client-jobclient, developed
 by



Apache Software Foundation (http://www.apache.org).
This product includes software, hadoop-mapreduce-client-shuffle, developed
 by



Apache Software Foundation (http://www.apache.org).
This product includes software, hadoop-yarn-client, developed by




Apache Software Foundation (http://www.apache.org).
This product includes software, hadoop-yarn-common, developed by
```

```
Apache Software Foundation (http://www.apache.org).
This product includes software, hadoop-yarn-server-common, developed by




Apache Software Foundation (http://www.apache.org).
This product includes software, htrace-core, developed by


The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache HttpClient, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache HttpCore, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Ivy, developed by


The Apache Software Foundation (http://www.apache.org/).
This product includes software, Spark Project Core, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Spark Project Local DB, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Spark Project Launcher, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Spark Project Networking, developed by



The Apache Software Foundation (https://www.apache.org/).
This product includes software, Spark Project Shuffle Streaming Service,
 developed
by


The Apache Software Foundation (https://www.apache.org/).
This product includes software, Spark Project Tags, developed by



The Apache Software Foundation (https://www.apache.org/).
```

```
This product includes software, Spark Project Unsafe, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, Apache XBean :: ASM 6 shaded (repackaged),
 developed
by


The Apache Software Foundation (http://www.apache.org).
This product includes software, Zeppelin: Interpreter Shaded, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Jupyter Interpreter, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Jupyter Interpreter Shaded,
 developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, zookeeper, developed by


$project.organization.name ($project.organization.url).
This product includes software, Jackson, developed by


FasterXML (http://fasterxml.com).
This product includes software, JAX-RS provider for JSON content type,
 developed
by


FasterXML (http://fasterxml.com).
This product includes software, Data Mapper for Jackson, developed by




FasterXML (http://fasterxml.com).
This product includes software, Xml Compatibility extensions for Jackson,
 developed
by


FasterXML (http://fasterxml.com).
This product includes software, leveldbjni-all, developed by



FuseSource, Corp. (http://fusesource.com/).
This product includes software, HK2 API module, developed by
```

```
Oracle Corporation (http://www.oracle.com).
This product includes software, ServiceLocator Default Implementation,
 developed
by


Oracle Corporation (http://www.oracle.com).
This product includes software, HK2 Implementation Utilities, developed by




Oracle Corporation (http://www.oracle.com).
This product includes software, OSGi resource locator bundle - used by
 various API
providers that rely on META-INF/services mechanism to locate providers.,
 developed
by


GlassFish Community (https://glassfish.dev.java.net).
This product includes software, aopalliance version 1.0 repackaged as a
 module, developed
by


Oracle Corporation (http://www.oracle.com).
This product includes software, javax.inject:1 as OSGi bundle, developed by




Oracle Corporation (http://www.oracle.com).
This product includes software, jersey-repackaged-guava, developed by




Oracle Corporation (http://www.oracle.com/).
This product includes software, jersey-container-servlet, developed by




Oracle Corporation (http://www.oracle.com/).
This product includes software, jersey-container-servlet-core, developed by




Oracle Corporation (http://www.oracle.com/).
This product includes software, jersey-core-client, developed by




Oracle Corporation (http://www.oracle.com/).
This product includes software, jersey-core-common, developed by
```

```
Oracle Corporation (http://www.oracle.com/).
This product includes software, jersey-core-server, developed by




Oracle Corporation (http://www.oracle.com/).
This product includes software, jersey-media-jaxb, developed by




Oracle Corporation (http://www.oracle.com/).
This product includes software, Javassist, developed by


$project.organization.name ($project.organization.url).
This product includes software, json4s-ast, developed by


org.json4s (https://github.com/json4s/json4s).
This product includes software, json4s-core, developed by


org.json4s (https://github.com/json4s/json4s).
This product includes software, json4s-jackson, developed by



org.json4s (https://github.com/json4s/json4s).
This product includes software, json4s-scalap, developed by



org.json4s (https://github.com/json4s/json4s).
This product includes software, jsoup Java HTML Parser, developed by




Jonathan Hedley (https://jhy.io/).
This product includes software, LZ4 and xxHash, developed by



$project.organization.name ($project.organization.url).
This product includes software, Jetty SSLEngine, developed by



Mort Bay Consulting (http://www.mortbay.com).
This product includes software, Jetty Utilities, developed by



Mort Bay Consulting (http://www.mortbay.com).
This product includes software, Objenesis, developed by


Joe Walnes, Henri Tremblay, Leonardo Mesquita ($project.organization.url).
This product includes software, RoaringBitmap, developed by
```

```
$project.organization.name ($project.organization.url).
This product includes software, shims, developed by


$project.organization.name ($project.organization.url).
This product includes software, Scala Library, developed by



LAMP/EPFL (http://lamp.epfl.ch/).
This product includes software, Scala Compiler, developed by



LAMP/EPFL (http://lamp.epfl.ch/).
This product includes software, scala-xml, developed by


org.scala-lang.modules (http://www.scala-lang.org/).
This product includes software, JCL 1.2 implemented over SLF4J, developed by




QOS.ch (http://www.qos.ch).
This product includes software, JUL to SLF4J bridge, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J LOG4J-12 Binding, developed by




QOS.ch (http://www.qos.ch).
This product includes software, empty, developed by


$project.organization.name ($project.organization.url).
This product includes software, XZ for Java, developed by


$project.organization.name ($project.organization.url).
This product includes software, snappy-java, developed by


xerial.org ($project.organization.url).
This product includes software, oro, developed by


$project.organization.name ($project.organization.url).
This product includes software, xmlenc Library, developed by



$project.organization.name ($project.organization.url).
```

```
// ------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,




// Version 2.0, in this case for Zeppelin: Spark Interpreter


// ------------------------------------------------------------------

Zeppelin: Spark Interpreter
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software, com.google.api.grpc:proto-google-common-
protos, developed
by


$project.organization.name ($project.organization.url).
This product includes software, FindBugs-jsr305, developed by



$project.organization.name ($project.organization.url).
This product includes software, Gson, developed by


$project.organization.name ($project.organization.url).
This product includes software, error-prone annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, Guava: Google Core Libraries for Java,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, Protocol Buffers [Core], developed by




Google (http://www.google.com/).
This product includes software, Apache Commons Codec, developed by




The Apache Software Foundation (https://www.apache.org/).
This product includes software, Apache Commons IO, developed by



The Apache Software Foundation (https://www.apache.org/).
```

```
This product includes software, io.grpc:grpc-context, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-core, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-netty, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-protobuf, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-protobuf-lite, developed by




$project.organization.name ($project.organization.url).
This product includes software, io.grpc:grpc-stub, developed by




$project.organization.name ($project.organization.url).
This product includes software, Netty/Buffer, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Codec, developed by


The Netty Project (http://netty.io/).
This product includes software, Netty/Codec/HTTP, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Codec/HTTP2, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Codec/Socks, developed by




The Netty Project (http://netty.io/).
This product includes software, Netty/Common, developed by
```

```
The Netty Project (http://netty.io/).
This product includes software, Netty/Handler, developed by



The Netty Project (http://netty.io/).
This product includes software, Netty/Handler/Proxy, developed by



The Netty Project (http://netty.io/).
This product includes software, Netty/Resolver, developed by



The Netty Project (http://netty.io/).
This product includes software, Netty/Transport, developed by



The Netty Project (http://netty.io/).
This product includes software, OpenCensus, developed by


$project.organization.name ($project.organization.url).
This product includes software, OpenCensus, developed by


$project.organization.name ($project.organization.url).
This product includes software, Apache Log4j, developed by


Apache Software Foundation (http://www.apache.org).
This product includes software, Apache Commons Exec, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: R, developed by


The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Spark Shims, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Spark1 Shims, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Spark2 Shims, developed by



The Apache Software Foundation (http://www.apache.org/).
```

```
This product includes software, Zeppelin: Spark3 Shims, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Display system apis, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Interpreter Shaded, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Jupyter Interpreter, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Jupyter Interpreter Shaded,
 developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Kotlin interpreter, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Python interpreter, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, Animal Sniffer Annotations, developed by




MojoHaus (http://www.mojohaus.org).
This product includes software, IntelliJ IDEA Annotations, developed by




$project.organization.name ($project.organization.url).
This product includes software, Trove4J, developed by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-compiler-
embeddable,
developed by


$project.organization.name ($project.organization.url).
```

```
This product includes software, org.jetbrains.kotlin:kotlin-daemon-
embeddable, developed
by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-reflect,
 developed by



$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-script-runtime,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-scripting-
common, developed
by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-scripting-
compiler-embeddable,
developed by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-scripting-
compiler-impl-embeddable,
developed by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-scripting-jvm,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-scripting-jvm-
host-embeddable,
developed by


$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-stdlib,
 developed by



$project.organization.name ($project.organization.url).
This product includes software, org.jetbrains.kotlin:kotlin-stdlib-common,
 developed
by


$project.organization.name ($project.organization.url).
This product includes software, kotlinx-coroutines-core, developed by
```

```
$project.organization.name ($project.organization.url).
This product includes software, jsoup Java HTML Parser, developed by




Jonathan Hedley (https://jhy.io/).
This product includes software, JCL 1.2 implemented over SLF4J, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J LOG4J-12 Binding, developed by




QOS.ch (http://www.qos.ch).

/ ----------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,




// Version 2.0, in this case for Zeppelin: Spark Interpreter Scala_2.10, 11,
 12



// ----------------------------------------------------------------------

Zeppelin: Spark Interpreter Scala_2.1x
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software, ParaNamer Core, developed by



$project.organization.name ($project.organization.url).
This product includes software, Commons Logging, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Log4j, developed by


Apache Software Foundation (http://www.apache.org).
This product includes software, Apache Commons Exec, developed by
```

```
The Apache Software Foundation (http://www.apache.org/).
This product includes software, Zeppelin: Interpreter Shaded, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J LOG4J-12 Binding, developed by




QOS.ch (http://www.qos.ch).

// ---------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,




// Version 2.0, in this case for Zeppelin: Spark Shims


// ---------------------------------------------------------------------

Zeppelin: Spark Shims
Copyright 2013-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software, Commons Logging, developed by



The Apache Software Foundation (http://www.apache.org/).
This product includes software, Apache Log4j, developed by


Apache Software Foundation (http://www.apache.org).
This product includes software, Apache Commons Exec, developed by




The Apache Software Foundation (http://www.apache.org/).
This product includes software, SLF4J API Module, developed by




QOS.ch (http://www.qos.ch).
This product includes software, SLF4J LOG4J-12 Binding, developed by
```

```
QOS.ch (http://www.qos.ch).

*************

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

================================================================================
   APACHE ZEPPELIN SUBCOMPONENTS:

   The Apache Zeppelin project contains subcomponents with separate
 copyright
   notices and license terms. Your use of the source code for the these
   subcomponents is subject to the terms and conditions of the following
   licenses.

========================================================================
 The Open Font License
========================================================================

The following components are provided under the Open Font License. See
 project link
for details.
The text of each license is also included at licenses/LICENSE-[project]-
[version].txt.


    (OFT 1.1) Font Awesome v4.2.0 (http://fortawesome.github.io/Font-
Awesome/) -
http://scripts.sil.org/OFL
    (OFL 1.1) Patua One Font (see licenses/LICENSE-patuaOne-font)
    (OFL 1.1) Source Code Pro Font (see licenses/LICENSE-source_code_pro-
font)

========================================================================
MIT licenses
========================================================================

The following components are provided under the MIT License. See project
 link for
details.
The text of each license is also included at licenses/LICENSE-[project]-
[version].txt.


    (The MIT License) Font Awesome (stylesheet) 4.2.0 (http://
fortawesome.github.io/Font-Awesome/)
- https://fortawesome.github.io/Font-Awesome/license/
    (The MIT License) Simple line icons v1.0.0 (http://thesabbir.github.io/
simple-line-icons/)
- https://github.com/thesabbir/simple-line-icons/tree/1.0.0
    (The MIT License) jekyll-bootstrap 0.3.0 (https://github.com/plusjade/
jekyll-bootstrap)
- https://github.com/plusjade/jekyll-bootstrap
```

```
    (The MIT License) jekyll 1.3.0 (http://jekyllrb.com/) - https://
github.com/jekyll/jekyll/blob/v1.3.0/LICENSE

    (The MIT License) ngInfiniteScroll 1.3.4 (https://github.com/sroze/
ngInfiniteScroll)
- https://github.com/sroze/ngInfiniteScroll/blob/master/LICENSE
    (The MIT License) @antv/G2 3.5 (https://github.com/antvis/g2) - https://
github.com/antvis/g2/blob/master/LICENSE

    (The MIT License) Lodash (https://lodash.com) - https://github.com/
lodash/lodash/blob/master/LICENSE

    (The MIT License) Monaco Editor (https://github.com/microsoft/monaco-
editor)
- https://github.com/microsoft/monaco-editor/blob/master/LICENSE.md

========================================================================
MIT-style licenses
========================================================================
The following components are provided under the MIT-style license. See
 project link
for details.
The text of each license is also included at licenses/LICENSE-[project]-
[version].txt.


    (MIT Style) jekyll-table-of-contents (https://github.com/ghiculescu/
jekyll-table-of-contents)
- https://github.com/ghiculescu/jekyll-table-of-contents/blob/master/
LICENSE.txt

    (MIT Style) lunr.js (https://github.com/olivernn/lunr.js) - https://
github.com/olivernn/lunr.js/blob/v0.7.1/LICENSE


========================================================================
Apache licenses
========================================================================

The following components are provided under the Apache License. See project
 link
for details.
The text of each license is also included at licenses/LICENSE-[project]-
[version].txt.


    (Apache 2.0) Bootstrap v3.0.2 (http://getbootstrap.com/) - https://
github.com/twbs/bootstrap/blob/v3.0.2/LICENSE

    (Apache 2.0) Software under ./bigquery/*  was developed at Google
 (http://www.google.com/).
Licensed under the Apache v2.0 License.
    (Apache 2.0) Roboto Font (https://github.com/google/roboto/)
    (Apache 2.0) Gson extra (https://github.com/DanySK/gson-extras)
    (Apache 2.0) Nimbus JOSE+JWT (https://bitbucket.org/connect2id/nimbus-
jose-jwt/wiki/Home)

    (Apache 2.0) jarchivelib (https://github.com/thrau/jarchivelib)
    (Apache 2.0) Google Cloud Client Library for Java (https://github.com/
GoogleCloudPlatform/google-cloud-java)

    (Apache 2.0) concurrentunit (https://github.com/jhalterman/
concurrentunit)
```

```
    (Apache 2.0) Embedded MongoDB (https://github.com/flapdoodle-oss/
de.flapdoodle.embed.mongo)

    (Apache 2.0) Kotlin (https://github.com/JetBrains/kotlin)
    (Apache 2.0) s3proxy (https://github.com/gaul/s3proxy)
    (Apache 2.0) kubernetes-client (https://github.com/fabric8io/kubernetes-
client)


========================================================================
BSD 3-Clause licenses
========================================================================
The following components are provided under the BSD 3-Clause license.  See
 file headers
and project links for details.

  (BSD 3 Clause) portions of rscala 1.0.6 (https://dahl.byu.edu/software/
rscala/)
- https://cran.r-project.org/web/packages/rscala/index.html
   r/R/rzeppelin/R/{common.R,
 globals.R,protocol.R,rServer.R,scalaInterpreter.R,zzz.R
}
   r/src/main/scala/org/apache/zeppelin/rinterpreter/rscala/{Package.scala,
 RClient.scala}


  (BSD 3 Clause) portions of Scala (http://www.scala-lang.org/download) -
 http://www.scala-lang.org/download/#License

   r/src/main/scala/scala/Console.scala

  (BSD 3 Clause) diff.js (https://github.com/kpdecker/jsdiff)

  (BSD 3-Clause) Google Auth Library for Java (https://github.com/google/
google-auth-library-java)


========================================================================
BSD 2-Clause licenses
========================================================================
The following components are provided under the BSD 2-Clause license.  See
 file headers
and project links for details.

  (BSD 2 Clause) portions of SQLLine (http://sqlline.sourceforge.net/) -
 http://sqlline.sourceforge.net/#license

   jdbc/src/main/java/org/apache/zeppelin/jdbc/SqlCompleter.java

  (BSD 2-clause) flexmark-java (https://github.com/vsch/flexmark-java)

========================================================================
Jython Software License
========================================================================
The following components are provided under the Jython Software License.
 See file
headers and project links for details.

  (Jython Software License) jython-standalone - http://www.jython.org/

========================================================================
Eclipse Public License - v 1.0
========================================================================
```

```
The following components are provided under the Eclipse Public License,
 version 1.0.
 See file headers and project links for details.

  (Eclipse Public License) pty4j - http://www.eclipse.org/legal/epl-v10.html


Zeppelin Dependencies:

Dependency: antlr:antlr:2.7.7
License: ANTLR 2 License
License: [2]
Copyright: [3]

Dependency: aopalliance:aopalliance:1.0
License: Public
License: [4] -(Mentioned in http://aopalliance.sourceforge.net/)
Copyright: [5]

Dependency: asm:asm:3.1
License: BSD-like
License: [6]
Copyright: [7]

Dependency: org.apache.thrift:libthrift:0.14.0
License: Apache 2.0
License: [8]
Copyright: [9]

Dependency: com.google.code.gson:gson:2.8.6
License: Apache 2.0
License: [10]
Copyright: [11]

Dependency: org.slf4j:slf4j-api:1.7.30
License: MIT
License: [12]
Copyright: [13]

Dependency: org.slf4j:jcl-over-slf4j:1.7.30
License: MIT
License: [12]
Copyright: [13]

Dependency: net.sf.py4j:py4j:0.10.7
License: BSD-like
License: [14]
Copyright: [15]

Dependency: jline:jline:2.14.5
License: BSD-like
License: [16]
Copyright: [17]

Dependency: io.grpc:grpc-netty:1.33.0
License: Apache 2.0
License: [10]
Copyright: [18]

Dependency: io.grpc:grpc-core:1.33.0
License: Apache 2.0
License: [10]
Copyright: [18]
```

```
Dependency: io.grpc:grpc-api:1.33.0
License: Apache 2.0
License: [10]
Copyright: [18]

Dependency: io.grpc:grpc-context:1.33.0
License: Apache 2.0
License: [10]
Copyright: [18]

Dependency: io.grpc:grpc-protobuf:1.15.0 -&gt; 1.33.0
License: Apache 2.0
License: [10]
Copyright: [18]

Dependency: io.grpc:grpc-protobuf-lite:1.33.0
License: Apache 2.0
License: [10]
Copyright: [18]

Dependency: io.grpc:grpc-stub:1.15.0
License: Apache 2.0
License: [10]
Copyright: [18]

Dependency: io.netty:netty-codec-http2:4.1.51.Final
License: Apache 2.0
License: [10]
Copyright: [19]

Dependency: io.netty:netty-common:4.1.51.Final
License: Apache 2.0
License: [10]
Copyright: [19]

Dependency: io.netty:netty-buffer:4.1.51.Final
License: Apache 2.0
License: [10]
Copyright: [19]

Dependency: io.netty:netty-transport:4.1.51.Final
License: Apache 2.0
License: [10]
Copyright: [19]

Dependency: io.netty:netty-resolver:4.1.51.Final
License: Apache 2.0
License: [10]
Copyright: [19]

Dependency: io.netty:netty-codec:4.1.51.Final
License: Apache 2.0
License: [10]
Copyright: [19]

Dependency: io.netty:netty-handler:4.1.51.Final
License: Apache 2.0
License: [10]
Copyright: [19]

Dependency: io.netty:netty-codec-http:4.1.51.Final
License: Apache 2.0
License: [10]
Copyright: [19]
```

```
Dependency: com.google.protobuf:protobuf-java:3.13.0
License: BSD-like
License: [20]
Copyright: [21]

Dependency: com.google.api.grpc:proto-google-common-protos:1.17.0
License: BSD-like
License: [22]
Copyright: [23]

Dependency: org.jetbrains.kotlin:kotlin-scripting-jvm-host-embeddable:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-script-runtime:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-scripting-common:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-reflect:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-stdlib:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-stdlib-common:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlinx:kotlinx-coroutines-core:1.1.1
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-scripting-jvm:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-script-runtime:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-compiler-embeddable:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-script-runtime:1.3.50
License: Apache 2.0
License: [24]
```

```
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-daemon-embeddable:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-scripting-compiler-embeddable:1.3.50
License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlin:kotlin-scripting-compiler-impl-
embeddable:1.3.50

License: Apache 2.0
License: [24]
Copyright: [25]

Dependency: org.jetbrains.kotlinx:kotlinx-coroutines-core:1.1.1
License: Apache 2.0
License: [10]
Copyright: [26]

Dependency: org.jetbrains:annotations:13.0
License: Apache 2.0
License: [27]
Copyright: [28]

Dependency: org.jetbrains.intellij.deps:trove4j:1.0.20181211
License: LGPL 2.1
License: [29]
Copyright: [30]

Dependency: org.jsoup:jsoup:1.8.3
License: MIT
License: [31]
Copyright: [32]

Dependency: commons-configuration:commons-configuration:1.9
License: Apache 2.0
License: [10]
Copyright: [33]

Dependency: commons-lang:commons-lang:2.6
License: Apache 2.0
License: [10]
Copyright: [34]

Dependency: commons-codec:commons-codec:1.14
License: Apache 2.0
License: [10]
Copyright: [35]

Dependency: commons-io:commons-io:2.8.0
License: Apache 2.0
License: [10]
Copyright: [36]

Dependency: org.apache.commons:commons-exec:1.3
License: Apache 2.0
License: [10]
Copyright: [37]
```

```
Dependency: org.apache.commons:commons-pool2:2.8.1
License: Apache 2.0
License: [38]
Copyright: [39]

Dependency: org.apache.commons:commons-lang3:3.10
License: Apache 2.0
License: [10]
Copyright: [40]

Dependency: com.thoughtworks.paranamer:paranamer:2.8
License: BSD-like
License: [41]
Copyright: [42]

Dependency: net.java.dev.jna:jna-platform:4.5.0
License: Dual LPGL 2.1 or Apache 2.0 (Apache 2.0 here)
License: [10]
Copyright: [43]

Dependency: net.java.dev.jna:jna:4.5.0
License: Dual LPGL 2.1 or Apache 2.0 (Apache 2.0 here)
License: [10]
Copyright: [43]

Dependency: org.jetbrains.pty4j:pty4j:0.9.3
License: EPL 1.0
License: [44]
Copyright: [45]

Dependency: org.jetbrains.pty4j:purejavacomm:0.0.11.1
License: BSD-like
License: [46]
Copyright: [47]

Dependency: org.jetbrains:annotations:16.0.2
License: Apache 2.0
License: [10]
Copyright: [48]

++++++++++++++++++++++++++++++++
++++++++++ References ++++++++++++

++++++++++++++++++++++++++++++++++++++++++++++++ Start of Reference [2]
 ================


SOFTWARE RIGHTS

ANTLR 1989-2006 Developed by Terence Parr
Partially supported by University of San Francisco & jGuru.com

We reserve no legal rights to the ANTLR--it is fully in the
public domain. An individual or company may do whatever
they wish with source code distributed with ANTLR or the
code generated by ANTLR, including the incorporation of
ANTLR, or its output, into commerical software.

We encourage users to develop software with ANTLR. However,
we do ask that credit is given to us for developing
ANTLR. By "credit", we mean that if you use ANTLR or
incorporate any source code into one of your programs
(commercial product, research project, or otherwise) that
you acknowledge this fact somewhere in the documentation,
```

```
research report, etc... If you like ANTLR and have
developed a nice tool with the output, please mention that
you developed it using ANTLR. In addition, we ask that the
headers remain intact in our source code. As long as these
guidelines are kept, we expect to continue enhancing this
system and expect to make other tools available as they are
completed.

The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org
================ End of Reference [2] ================

================ Start of Reference [3] ================
copyright:
ANTLR 1989-2006 Developed by Terence Parr
Partially supported by University of San Francisco &?jGuru.com

We reserve no legal rights to the ANTLR--it is fully in the
public domain. An individual or company may do whatever
they wish with source code distributed with ANTLR or the
code generated by ANTLR, including the incorporation of
ANTLR, or its output, into commerical software.
================ End of Reference [3] ================

================ Start of Reference [4] ================
License: all the source code provided by AOP Alliance is Public Domain.
================ End of Reference [4] ================

================ Start of Reference [5] ================
All the source code provided by AOP Alliance is Public Domain.
================ End of Reference [5] ================

================ Start of Reference [6] ================

 ASM: a very small and fast Java bytecode manipulation framework
 Copyright (c) 2000-2005 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
```

```
================ End of Reference [6] ================

================ Start of Reference [7] ================
/***
 * ASM: a very small and fast Java bytecode manipulation framework
 * Copyright (c) 2000-2007 INRIA, France Telecom
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. Neither the name of the copyright holders nor the names of its
 *    contributors may be used to endorse or promote products derived from
 *    this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 * THE POSSIBILITY OF SUCH DAMAGE.
 */

================ End of Reference [7] ================

================ Start of Reference [8] ================

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
```

```
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
```

```
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------
SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

--------------------------------------------------
Portions of the following files are licensed under the MIT License:

  lib/erl/src/Makefile.am
```

```
Please see doc/otp-base-license.txt for the full terms of this license.

----------------------------------------------------
For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
 components:


#   Copyright (c) 2007 Thomas Porschberg &lt;thomas@randspringer.de&gt;
#
#   Copying and distribution of this file, with or without
#   modification, are permitted in any medium without royalty provided
#   the copyright notice and this notice are preserved.

----------------------------------------------------
For the lib/nodejs/lib/thrift/json_parse.js:

/*
    json_parse.js
    2015-05-02
    Public Domain.
    NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
(By Douglas Crockford &lt;douglas@crockford.com&gt;)

----------------------------------------------------
For lib/cpp/src/thrift/windows/SocketPair.cpp

/* socketpair.c
 * Copyright 2007 by Nathan C. Myers &lt;ncm@cantrip.org&gt;; some rights
 reserved.
 * This code is Free Software.  It may be copied freely, in original or
 * modified form, subject only to the restrictions that (1) the author is
 * relieved from all responsibilities for any use for any purpose, and (2)
 * this copyright notice must be retained, unchanged, in its entirety.  If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
 */


----------------------------------------------------
For lib/py/compat/win32/stdint.h

// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
 met:
//
//   1. Redistributions of source code must retain the above copyright
 notice,
//      this list of conditions and the following disclaimer.
//
//   2. Redistributions in binary form must reproduce the above copyright
//      notice, this list of conditions and the following disclaimer in the
//      documentation and/or other materials provided with the distribution.
//
//   3. The name of the author may be used to endorse or promote products
//      derived from this software without specific prior written
 permission.
```

```
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
////////////////////////////////////////////////////////////////////////////


--------------------------------------------------
Codegen template in t_html_generator.h

* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and
 @fat.

--------------------------------------------------
For t_cl_generator.cc

 * Copyright (c) 2008- Patrick Collison &lt;patrick@collison.ie&gt;
 * Copyright (c) 2006- Facebook

--------------------------------------------------

================ End of Reference [8] ================

================ Start of Reference [9] ================
Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

================ End of Reference [9] ================

================ Start of Reference [10] ================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
================ End of Reference [10] ================

================ Start of Reference [11] ================
Copyright 2008 Google Inc.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
      http://www.apache.org/licenses/LICENSE-2.0
  Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
================ End of Reference [11] ================

================ Start of Reference [12] ================
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.




================ End of Reference [12] ================

================ Start of Reference [13] ================
Copyright (c) 2004-2017 QOS.ch All rights reserved.
================ End of Reference [13] ================

================ Start of Reference [14] ================
Copyright (c) 2009-2018, Barthelemy Dagenais and individual contributors.
 All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

- The name of the author may not be used to endorse or promote products
```

```
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

================ End of Reference [14] ================

================ Start of Reference [15] ================
Copyright (c) 2009-2018, Barthelemy Dagenais and individual contributors.
 All rights
reserved.
================ End of Reference [15] ================

================ Start of Reference [16] ================
Copyright (c) 2002-2016, the original author or authors.
All rights reserved.

http://www.opensource.org/licenses/bsd-license.php

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.


================ End of Reference [16] ================

================ Start of Reference [17] ================
```

```
Copyright (c) 2002-2016, the original author or authors. All rights
 reserved.
================ End of Reference [17] ================

================ Start of Reference [18] ================
Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------------------------------------------------------------

This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:

  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp

This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:

  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy

This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:

  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate

This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:

  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
```

```
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa

================ End of Reference [18] ================

================ Start of Reference [19] ================

                            The Netty Project
                            =================

Please visit the Netty web site for more information:

  * https://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.&lt;component&gt;.txt file, which is
 located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/


This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging
```

```
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
  * HOMEPAGE:
    * http://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library
 to construct

the suffix array and the Burrows-Wheeler transformed string for any input
 string
of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency
Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for
 encoding and

decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:
```

```
  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression

and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on
 'Protocol Buffers',
Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
  * HOMEPAGE:
    * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
  * HOMEPAGE:
    * http://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
  * HOMEPAGE:
    * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
  * HOMEPAGE:
```

```
    * https://github.com/jboss-remoting/jboss-marshalling

This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/twitter/hpack

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:


  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/
```

```
This product contains a modified portion of 'Apache Commons Lang', a Java
 library

provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/


This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides
an easy way to ensure a user has everything necessary to run the Maven
 build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper

This product contains the dnsinfo.h header file, that provides a way to
 retrieve
the system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/
dnsinfo.h

================ End of Reference [19] ================

================ Start of Reference [20] ================
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

================ End of Reference [20] ================

================ Start of Reference [21] ================
Copyright 2008 Google Inc.  All rights reserved.
================ End of Reference [21] ================

================ Start of Reference [22] ================
Copyright 2016, Google Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

================ End of Reference [22] ================

================ Start of Reference [23] ================
Copyright 2016, Google Inc. All rights reserved.
================ End of Reference [23] ================

================ Start of Reference [24] ================

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
```

```
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
```

```
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
```

```
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2000-2018 JetBrains s.r.o.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

================ End of Reference [24] ================

================ Start of Reference [25] ================
Kotlin Compiler    Copyright 2010-2019 JetBrains s.r.o and respective
 authors and
developers
```

```
The following modules contain third-party code and are incorporated into the
 Kotlin
compiler
and/or the Kotlin IntelliJ IDEA plugin:

Path: compiler/backend/src/org/jetbrains/kotlin/codegen/inline/
MaxStackFrameSizeAndLocalsCalculator.java

License: BSD (license/third_party/asm_license.txt)
Origin: Derived from ASM: a very small and fast Java bytecode manipulation
 framework,

Copyright (c) 2000-2011 INRIA, France Telecom

Path: compiler/backend/src/org/jetbrains/kotlin/codegen/inline/
MaxLocalsCalculator.java

License: BSD (license/third_party/asm_license.txt)
Origin: Derived from ASM: a very small and fast Java bytecode manipulation
 framework,

Copyright (c) 2000-2011 INRIA, France Telecom

Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/
MethodAnalyzer.kt

License: BSD (license/third_party/asm_license.txt)
Origin: Derived from ASM: a very small and fast Java bytecode manipulation
 framework,

Copyright (c) 2000-2011 INRIA, France Telecom

Path: core/reflection.jvm/src/kotlin.reflect/jvm/internal/pcollections
License: MIT (license/third_party/pcollections_LICENSE.txt)
Origin: Derived from PCollections, A Persistent Java Collections Library
 (https://pcollections.org/)


Path: eval4j/src/org/jetbrains/eval4j/interpreterLoop.kt
License: BSD (license/third_party/asm_license.txt)
Origin: Derived from ASM: a very small and fast Java bytecode manipulation
 framework,

Copyright (c) 2000-2011 INRIA, France Telecom

Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/
OptimizationBasicInterpreter.java

License: BSD (license/third_party/asm_license.txt)
Origin: Derived from ASM: a very small and fast Java bytecode manipulation
 framework,

Copyright (c) 2000-2011 INRIA, France Telecom

Path: js/js.ast
License: BSD (license/third_party/dart_LICENSE.txt)
Origin: Originally part of the Dart compiler,
(c) 2011 the Dart Project Authors,

Path: js/js.inliner/src/org/jetbrains/kotlin/js/inline/
FunctionInlineMutator.kt
License: BSD (license/third_party/dart_LICENSE.txt)
Origin: Originally part of the Dart compiler,
(c) 2011 the Dart Project Authors,
```

```
Path: js/js.parser/src/com/google
License: Netscape Public License 1.1 (license/third_party/rhino_LICENSE.txt)
Origin: Originally part of GWT,
(C) 2007-08 Google Inc., distributed under the Apache 2 license.
The code is derived from Rhino,
(C) 1997-1999 Netscape Communications Corporation, distributed under the
 Netscape
Public License.

Path: js/js.translator/qunit/qunit.js
License: MIT (license/third_party/qunit_license.txt)
Origin: Qunit,
Copyright (c) 2012 John Resig, J⍰rn Zaefferer,

Path: libraries/stdlib/src/kotlin/collections
License: Apache 2 (license/third_party/gwt_license.txt)
Origin: Derived from GWT,
(C) 2007-08 Google Inc.

Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
License: Apache 2 (license/third_party/guava_license.txt)
Origin: Derived from Guava's UnsignedLongs,
(C) 2011 The Guava Authors

Path: libraries/stdlib/jvm/src/kotlin/util/MathJVM.kt
License: Boost Software License 1.0 (license/third_party/boost_LICENSE.txt)
Origin: Derived from boost special math functions,
Copyright Eric Ford & Hubert Holin 2001.

Path: libraries/stdlib/js/src/kotlin/collections
License: Apache 2 (license/third_party/gwt_license.txt)
Origin: Derived from GWT,
(C) 2007-08 Google Inc.

Path: libraries/stdlib/js-v1/src/js/long.js
License: Apache 2 (license/third_party/closure-compiler_LICENSE.txt)
Origin: Google Closure Library,
Copyright 2009 The Closure Library Authors

Path: libraries/stdlib/js-v1/src/js/polyfills.js
License: Boost Software License 1.0 (license/third_party/boost_LICENSE.txt)
Origin: Derived from boost special math functions,
Copyright Eric Ford & Hubert Holin 2001.

Path: plugins/lint/android-annotations
License: Apache 2 (license/third_party/aosp_license.txt)
Origin: Copyright (C) 2011-15 The Android Open Source Project

Path: plugins/lint/lint-api
License: Apache 2 (license/third_party/aosp_license.txt)
Origin: Copyright (C) 2011-15 The Android Open Source Project

Path: plugins/lint/lint-checks
License: Apache 2 (license/third_party/aosp_license.txt)
Origin: Copyright (C) 2011-15 The Android Open Source Project

Path: plugins/lint/lint-idea
License: Apache 2 (license/third_party/aosp_license.txt)
Origin: Copyright (C) 2011-15 The Android Open Source Project
================ End of Reference [25] ================

================ Start of Reference [26] ================
Copyright 2016-2018 JetBrains s.r.o.
```

```
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
================ End of Reference [26] ================

================ Start of Reference [27] ================

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
```

```
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2000-2016 JetBrains s.r.o.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

================ End of Reference [27] ================

================ Start of Reference [28] ================
/*  * Copyright 2000-2020 JetBrains s.r.o.  *  * Licensed under the Apache
 License,
Version 2.0 (the "License");  * you may not use this file except in
 compliance with
the License.  * You may obtain a copy of the License at  *  * https://
www.apache.org/licenses/LICENSE-2.0
 *  * Unless required by applicable law or agreed to in writing, software  *
 distributed
under the License is distributed on an "AS IS" BASIS,  * WITHOUT WARRANTIES
 OR CONDITIONS
OF ANY KIND, either express or implied.  * See the License for the specific
 language
governing permissions and  * limitations under the License.  */
================ End of Reference [28] ================

================ Start of Reference [29] ================
          GNU LESSER GENERAL PUBLIC LICENSE
               Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
```

```
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
```

```
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

          GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
```

```
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
```

```
  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
```

```
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
```

```
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.
```

```
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

              END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
```

```
ordinary General Public License).

  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    &lt;one line to give the library's name and a brief idea of what it
 does.&gt;
    Copyright (C) &lt;year&gt;  &lt;name of author&gt;

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

  &lt;signature of Ty Coon&gt;, 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!



================ End of Reference [29] ================

================ Start of Reference [30] ================
The PrimeFinder and HashFunctions classes in Trove are subject to the
 following license
restrictions:  Copyright (c) 1999 CERN - European Organization for Nuclear
 Research.
 Permission to use, copy, modify, distribute and sell this software and its
 documentation
for any purpose is hereby granted without fee, provided that the above
 copyright
notice appear in all copies and that both that copyright notice and this
 permission
notice appear in supporting documentation. CERN makes no representations
 about the
suitability of this software for any purpose. It is provided "as is" without
 expressed
or implied warranty.
================ End of Reference [30] ================

================ Start of Reference [31] ================
```

```
The MIT License

© 2009-2015, Jonathan Hedley &lt;jonathan@hedley.net&gt;

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

================ End of Reference [31] ================

================ Start of Reference [32] ================
© 2009-2015, Jonathan Hedley &lt;jonathan@hedley.net&gt;
================ End of Reference [32] ================

================ Start of Reference [33] ================
Licensed to the Apache Software Foundation (ASF) under one or more
 contributor
license agreements.  See the NOTICE file distributed with    this work for
 additional
information regarding copyright ownership.    The ASF licenses this file to
 You under
the Apache License, Version 2.0    (the "License"); you may not use this
 file except
in compliance with    the License.  You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0     Unless required by
 applicable law
or agreed to in writing, software    distributed under the License is
 distributed
on an "AS IS" BASIS,    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 express
or implied.    See the License for the specific language governing
 permissions and
   limitations under the License.

Apache Commons Configuration Copyright 2001-2012 The Apache Software
 Foundation
This product includes software developed by The Apache Software Foundation
 (http://www.apache.org/).

================ End of Reference [33] ================

================ Start of Reference [34] ================
Licensed to the Apache Software Foundation (ASF) under one or more
 contributor
license agreements.  See the NOTICE file distributed with    this work for
 additional
```

```
information regarding copyright ownership.    The ASF licenses this file to
 You under
the Apache License, Version 2.0    (the "License"); you may not use this
 file except
in compliance with    the License.  You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0     Unless required by
 applicable law
or agreed to in writing, software    distributed under the License is
 distributed
on an "AS IS" BASIS,    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 express
or implied.    See the License for the specific language governing
 permissions and
   limitations under the License.

Apache Commons Lang Copyright 2001-2011 The Apache Software Foundation  This
 product
includes software developed by The Apache Software Foundation (http://
www.apache.org/).

================ End of Reference [34] ================

================ Start of Reference [35] ================
Licensed to the Apache Software Foundation (ASF) under one or more
 contributor
license agreements.  See the NOTICE file distributed with    this work for
 additional
information regarding copyright ownership.    The ASF licenses this file to
 You under
the Apache License, Version 2.0    (the "License"); you may not use this
 file except
in compliance with    the License.  You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0     Unless required by
 applicable law
or agreed to in writing, software    distributed under the License is
 distributed
on an "AS IS" BASIS,    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 express
or implied.    See the License for the specific language governing
 permissions and
   limitations under the License.

Apache Commons Codec Copyright 2002-2019 The Apache Software Foundation
 This product
includes software developed at The Apache Software Foundation (https://
www.apache.org/).
 src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
 contains test
data from http://aspell.net/test/orig/batch0.tab. Copyright (C) 2002 Kevin
 Atkinson
(kevina@gnu.org)
 ==============================================================================
 The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors. Original source copyright:
 Copyright (c)
2008 Alexander Beider & Stephen P. Morse.
================ End of Reference [35] ================

================ Start of Reference [36] ================
```

```
Licensed to the Apache Software Foundation (ASF) under one or more
 contributor
license agreements.  See the NOTICE file distributed with    this work for
 additional
information regarding copyright ownership.    The ASF licenses this file to
 You under
the Apache License, Version 2.0    (the "License"); you may not use this
 file except
in compliance with    the License.  You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0     Unless required by
 applicable law
or agreed to in writing, software    distributed under the License is
 distributed
on an "AS IS" BASIS,    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 express
or implied.    See the License for the specific language governing
 permissions and
   limitations under the License.

 Apache Commons IO Copyright 2002-2020 The Apache Software Foundation  This
 product
includes software developed at The Apache Software Foundation (https://
www.apache.org/).

================ End of Reference [36] ================

================ Start of Reference [37] ================
Licensed to the Apache Software Foundation (ASF) under one or more
 contributor
license agreements.  See the NOTICE file distributed with    this work for
 additional
information regarding copyright ownership.    The ASF licenses this file to
 You under
the Apache License, Version 2.0    (the "License"); you may not use this
 file except
in compliance with    the License.  You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0     Unless required by
 applicable law
or agreed to in writing, software    distributed under the License is
 distributed
on an "AS IS" BASIS,    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 express
or implied.    See the License for the specific language governing
 permissions and
   limitations under the License.

Apache Commons Exec Copyright 2005-2014 The Apache Software Foundation  This
 product
includes software developed at The Apache Software Foundation (http://
www.apache.org/).

================ End of Reference [37] ================

================ Start of Reference [38] ================

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
```

```
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

 APACHE COMMONS POOL DERIVATIVE WORKS:

   The LinkedBlockingDeque implementation is based on an implementation
 written by

   Doug Lea with assistance from members of JCP JSR-166 Expert Group and
 released

   to the public domain, as explained at
   http://creativecommons.org/licenses/publicdomain

================ End of Reference [38] ================

================ Start of Reference [39] ================
Licensed to the Apache Software Foundation (ASF) under one or more
 contributor
license agreements.  See the NOTICE file distributed with    this work for
 additional
information regarding copyright ownership.    The ASF licenses this file to
 You under
the Apache License, Version 2.0    (the "License"); you may not use this
 file except
in compliance with    the License.  You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0     Unless required by
 applicable law
or agreed to in writing, software    distributed under the License is
 distributed
on an "AS IS" BASIS,    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
 express
or implied.    See the License for the specific language governing
 permissions and
   limitations under the License.

Apache Commons Pool Copyright 2001-2020 The Apache Software Foundation  This
 product
includes software developed at The Apache Software Foundation (https://
www.apache.org/).

================ End of Reference [39] ================

================ Start of Reference [40] ================
Apache Commons Lang Copyright 2001-2020 The Apache Software Foundation  This
 product
includes software developed at The Apache Software Foundation (https://
www.apache.org/).

================ End of Reference [40] ================

================ Start of Reference [41] ================
[ ParaNamer used to be 'Pubic Domain', but since it includes a small piece
 of ASM
it is now the same license as that: BSD ]

 Copyright (c) 2006 Paul Hammant & ThoughtWorks Inc
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
```

```
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
================ End of Reference [41] ================

================ Start of Reference [42] ================
Copyright (c) 2006 Paul Hammant & ThoughtWorks Inc  All rights reserved.
================ End of Reference [42] ================

================ Start of Reference [43] ================
This copy of JNA is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/

A copy is also included in the downloadable source code package
containing JNA, in file "AL2.0", under the same directory
as this file.

================ End of Reference [43] ================

================ Start of Reference [44] ================
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE
("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S
ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation distributed
under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed
```

```
by that particular Contributor. A Contribution 'originates' from a
 Contributor if
it was added to the Program by such Contributor itself or anyone acting on
 such Contributor's
behalf. Contributions do not include additions to the Program which: (i) are
 separate
modules of software distributed in conjunction with the Program under their
 own license
agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily
infringed by the use or sale of its Contribution alone or when combined with
 the
Program.

"Program" means the Contributions distributed in accordance with this
 Agreement.


"Recipient" means anyone who receives the Program under this Agreement,
 including
all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient
a non-exclusive, worldwide, royalty-free copyright license to reproduce,
 prepare
derivative works of, publicly display, publicly perform, distribute and
 sublicense
the Contribution of such Contributor, if any, and such derivative works, in
 source
code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient
a non-exclusive, worldwide, royalty-free patent license under Licensed
 Patents to
make, use, sell, offer to sell, import and otherwise transfer the
 Contribution of
such Contributor, if any, in source code and object code form. This patent
 license
shall apply to the combination of the Contribution and the Program if, at
 the time
the Contribution is added by the Contributor, such addition of the
 Contribution causes
such combination to be covered by the Licensed Patents. The patent license
 shall
not apply to any other combinations which include the Contribution. No
 hardware per
se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its
Contributions set forth herein, no assurances are provided by any
 Contributor that
the Program does not infringe the patent or other intellectual property
 rights of
any other entity. Each Contributor disclaims any liability to Recipient for
 claims
brought by any other entity based on infringement of intellectual property
 rights
```

```
or otherwise. As a condition to exercising the rights and licenses granted
 hereunder,
each Recipient hereby assumes sole responsibility to secure any other
 intellectual
property rights needed, if any. For example, if a third party patent license
 is required
to allow Recipient to distribute the Program, it is Recipient's
 responsibility to
acquire that license before distributing the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright
rights in its Contribution, if any, to grant the copyright license set forth
 in this
Agreement.
3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
 its
own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties and
 conditions,
express and implied, including warranties or conditions of title and non-
infringement,
and implied warranties or conditions of merchantability and fitness for a
 particular
purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages,
including direct, indirect, special, incidental and consequential damages,
 such as
lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that
Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and
informs licensees how to obtain it in a reasonable manner on or through a
 medium
customarily used for software exchange.
When the Program is made available in source code form:

a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.


Each Contributor must identify itself as the originator of its Contribution,
 if any,
in a manner that reasonably allows subsequent Recipients to identify the
 originator
of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
 respect
to end users, business partners and the like. While this license is intended
 to facilitate
the commercial use of the Program, the Contributor who includes the Program
 in a
```

```
commercial product offering should do so in a manner which does not create
 potential
liability for other Contributors. Therefore, if a Contributor includes the
 Program
in a commercial product offering, such Contributor ("Commercial
 Contributor") hereby
agrees to defend and indemnify every other Contributor ("Indemnified
 Contributor")
against any losses, damages and costs (collectively "Losses") arising from
 claims,
lawsuits and other legal actions brought by a third party against the
 Indemnified
Contributor to the extent caused by the acts or omissions of such Commercial
 Contributor
in connection with its distribution of the Program in a commercial product
 offering.
The obligations in this section do not apply to any claims or Losses
 relating to
any actual or alleged intellectual property infringement. In order to
 qualify, an
Indemnified Contributor must: a) promptly notify the Commercial Contributor
 in writing
of such claim, and b) allow the Commercial Contributor to control, and
 cooperate
with the Commercial Contributor in, the defense and any related settlement
 negotiations.
The Indemnified Contributor may participate in any such claim at its own
 expense.


For example, a Contributor might include the Program in a commercial product
 offering,
Product X. That Contributor is then a Commercial Contributor. If that
 Commercial
Contributor then makes performance claims, or offers warranties related to
 Product
X, those performance claims and warranties are such Commercial Contributor's
 responsibility
alone. Under this section, the Commercial Contributor would have to defend
 claims
against the other Contributors related to those performance claims and
 warranties,
and if a court requires any other Contributor to pay any damages as a
 result, the
Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN "AS
IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
 IMPLIED
INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-
INFRINGEMENT,
MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is
 solely responsible
for determining the appropriateness of using and distributing the Program
 and assumes
all risks associated with its exercise of rights under this Agreement ,
 including
but not limited to the risks and costs of program errors, compliance with
 applicable
laws, damage to or loss of data, programs or equipment, and unavailability
 or interruption
```

```
of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
 CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS),
 HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION
 OF THE
PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF
 THE POSSIBILITY
OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
 applicable law,
it shall not affect the validity or enforceability of the remainder of the
 terms
of this Agreement, and without further action by the parties hereto, such
 provision
shall be reformed to the minimum extent necessary to make such provision
 valid and
enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim
or counterclaim in a lawsuit) alleging that the Program itself (excluding
 combinations
of the Program with other software or hardware) infringes such Recipient's
 patent(s),
then such Recipient's rights granted under Section 2(b) shall terminate as
 of the
date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply
with any of the material terms or conditions of this Agreement and does not
 cure
such failure in a reasonable period of time after becoming aware of such
 noncompliance.
If all Recipient's rights under this Agreement terminate, Recipient agrees
 to cease
use and distribution of the Program as soon as reasonably practicable.
 However, Recipient's
obligations under this Agreement and any licenses granted by Recipient
 relating to
the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order
to avoid inconsistency the Agreement is copyrighted and may only be modified
 in the
following manner. The Agreement Steward reserves the right to publish new
 versions
(including revisions) of this Agreement from time to time. No one other than
 the
Agreement Steward has the right to modify this Agreement. The Eclipse
 Foundation
```

```
is the initial Agreement Steward. The Eclipse Foundation may assign the
 responsibility
to serve as the Agreement Steward to a suitable separate entity. Each new
 version
of the Agreement will be given a distinguishing version number. The Program
 (including
Contributions) may always be distributed subject to the version of the
 Agreement
under which it was received. In addition, after a new version of the
 Agreement is
published, Contributor may elect to distribute the Program (including its
 Contributions)
under the new version. Except as expressly stated in Sections 2(a) and 2(b)
 above,
Recipient receives no rights or licenses to the intellectual property of any
 Contributor
under this Agreement, whether expressly, by implication, estoppel or
 otherwise. All
rights in the Program not expressly granted under this Agreement are
 reserved.

This Agreement is governed by the laws of the State of New York and the
 intellectual
property laws of the United States of America. No party to this Agreement
 will bring
a legal action under this Agreement more than one year after the cause of
 action
arose. Each party waives its rights to a jury trial in any resulting
 litigation.

================ End of Reference [44] ================

================ Start of Reference [45] ================
This library is based on
elt - Local Terminal Plug-In for Eclipse (Eclipse Public License)
and JPty - A small PTY interface for Java(Apache Software License)
 Copyright (c)
2012 - J.W. Janssen &lt;j.w.janssen@lxtreme.nl&gt;.

---------------------------------------------------------------------------

This library includes software (JTermios) developed by Kustaa Nyholm.
Copyright (c) 2011, Kustaa Nyholm / SpareTimeLabs.

This library includes software (JNA) developed by Timothy Wall and others.
Copyright (C) 2012, Timothy Wall / JNA community.

================ End of Reference [45] ================

================ Start of Reference [46] ================
Copyright (c) 2011, Kustaa Nyholm / SpareTimeLabs All rights reserved.
 Redistribution
and use in source and binary forms, with or without modification, are
 permitted provided
that the following conditions are met:  Redistributions of source code must
 retain
the above copyright notice, this list of conditions and the following
 disclaimer.
 Redistributions in binary form must reproduce the above copyright notice,
 this list
of conditions and the following disclaimer in the documentation and/or other
 materials
provided with the distribution.  Neither the name of the Kustaa Nyholm or
 SpareTimeLabs
```

```
nor the names of its contributors may be used to endorse or promote products
 derived
from this software without specific prior written permission.  THIS SOFTWARE
 IS PROVIDED
BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED
 WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
 FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
================ End of Reference [46] ================

================ Start of Reference [47] ================
Copyright (c) 2011, Kustaa Nyholm / SpareTimeLabs All rights reserved.
================ End of Reference [47] ================

================ Start of Reference [48] ================
Copyright 2000-2016 JetBrains s.r.o.     Licensed under the Apache License,
 Version
2.0 (the "License");    you may not use this file except in compliance with
 the License.
   You may obtain a copy of the License at         http://www.apache.org/
licenses/LICENSE-2.0
    Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS,    WITHOUT WARRANTIES
 OR CONDITIONS
OF ANY KIND, either express or implied.    See the License for the specific
 language
governing permissions and    limitations under the License.
================ End of Reference [48] ================
```

Provider: The Apache Software Foundation / Component(s): maven-plugin-annotations 3.4

```
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.
```

```
"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
```

```
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
```

```
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: The Apache Software Foundation / Component(s): Spark 3.0.2

```
-----------------
Top-level license-----------------
------------------------------- License -------------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
```

```
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
```

```
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-----------------

------------------------------- Copyright notices --------------------------

Apache Spark
Copyright 2014 and onwards The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Export Control Notice
---------------------

This distribution includes cryptographic software. The country in which you
 currently reside may have
restrictions on the import, possession, use, and/or re-export to another
 country, of encryption software.
BEFORE using any encryption software, please check your country's laws,
 regulations and policies concerning
the import, possession, or use, and re-export of encryption software, to see
 if this is permitted. See
<http://www.wassenaar.org/> for more information.
```

```
The U.S. Government Department of Commerce, Bureau of Industry and Security
 (BIS), has classified this
software as Export Commodity Control Number (ECCN) 5D002.C.1, which includes
 information security software
using or performing cryptographic functions with asymmetric algorithms. The
 form and manner of this Apache
Software Foundation distribution makes it eligible for export under the
 License Exception ENC Technology
Software Unrestricted (TSU) exception (see the BIS Export Administration
 Regulations, Section 740.13) for
both object code and source code.

The following provides more details on the included cryptographic software:

This software uses Apache Commons Crypto (https://commons.apache.org/proper/
commons-crypto/) to
support authentication, and encryption and decryption of data sent across
 the network between
services.


// ---------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for
// ---------------------------------------------------------------------

Hive Beeline
Copyright 2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache Avro
Copyright 2009-2014 The Apache Software Foundation

This product currently only contains code developed by authors
of specific components, as identified by the source code files;
if such notes are missing files have been created by
Tatu Saloranta.

For additional credits (generally to people who reported problems)
see CREDITS file.

Apache Commons Compress
Copyright 2002-2012 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Apache Avro Mapred API
Copyright 2009-2014 The Apache Software Foundation

Apache Avro IPC
Copyright 2009-2014 The Apache Software Foundation

Objenesis
Copyright 2006-2013 Joe Walnes, Henri Tremblay, Leonardo Mesquita

Apache XBean :: ASM shaded (repackaged)
Copyright 2005-2019 The Apache Software Foundation

--------------------------------------

This product includes software developed at
```

```
OW2 Consortium (http://asm.ow2.org/)

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

The binary distribution of this product bundles binaries of
org.iq80.leveldb:leveldb-api (https://github.com/dain/leveldb), which has
 the
following notices:
* Copyright 2011 Dain Sundstrom <dain@iq80.com>
* Copyright 2011 FuseSource Corp. http://fusesource.com

The binary distribution of this product bundles binaries of
org.fusesource.hawtjni:hawtjni-runtime (https://github.com/fusesource/
hawtjni),
which has the following notices:
* This product includes software developed by FuseSource Corp.
  http://fusesource.com
* This product includes software developed at
  Progress Software Corporation and/or its  subsidiaries or affiliates.
* This product includes software developed by IBM Corporation and others.

The binary distribution of this product bundles binaries of
Gson 2.2.4,
which has the following notices:


                            The Netty Project
                            -----------------

Please visit the Netty web site for more information:

  * http://netty.io/

Copyright 2014 The Netty Project

The binary distribution of this product bundles binaries of
Commons Codec 1.4,
which has the following notices:
 * src/test/org/apache/commons/codec/language/
DoubleMetaphoneTest.javacontains test data from http://aspell.net/test/orig/
batch0.tab.Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)
  -----------------
  The content of package org.apache.commons.codec.language.bm has been
 translated
  from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
  with permission from the original authors.
  Original source copyright:Copyright (c) 2008 Alexander Beider & Stephen P.
 Morse.

The binary distribution of this product bundles binaries of
Commons Lang 2.6,
which has the following notices:
 * This product includes software from the Spring Framework,under the Apache
 License 2.0 (see: StringUtils.containsWhitespace())

The binary distribution of this product bundles binaries of
Apache Log4j 1.2.17,
which has the following notices:
 * ResolverUtil.java
    Copyright 2005-2006 Tim Fennell
  Dumbster SMTP test server
    Copyright 2004 Jason Paul Kitchen
```

```
  TypeUtil.java
    Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

The binary distribution of this product bundles binaries of
Jetty 6.1.26,
which has the following notices:
 * ------------------------------------------------------------
    Jetty Web Container
    Copyright 1995-2016 Mort Bay Consulting Pty Ltd.
   ------------------------------------------------------------

   The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
   unless otherwise noted.


   Assorted

   The UnixCrypt.java code implements the one way cryptography used by
   Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
   modified April 2001  by Iris Van den Broeke, Daniel Deville.
   Permission to use, copy, modify and distribute UnixCrypt
   for non-commercial or commercial purposes and without fee is
   granted provided that the copyright notice appears in all copies./

The binary distribution of this product bundles binaries of
Snappy for Java 1.0.4.1,
which has the following notices:
 * This product includes software developed by Google
    Snappy: http://code.google.com/p/snappy/ (New BSD License)

   This product includes software developed by Apache
    PureJavaCrc32C from apache-hadoop-common http://hadoop.apache.org/
    (Apache 2.0 license)

   This library contains statically linked libstdc++. This inclusion is
 allowed by
   "GCC RUntime Library Exception"
   http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html

   -- Contributors --
     * Tatu Saloranta
       * Providing benchmark suite
     * Alec Wysoker
       * Performance and memory usage improvement

The binary distribution of this product bundles binaries of
Xerces2 Java Parser 2.9.1,
which has the following notices:
 * ------------------------------------------------------------
   --  NOTICE file corresponding to section 4(d) of the Apache License,   --
   --  Version 2.0, in this case for the Apache Xerces Java distribution. --
   ------------------------------------------------------------

   Apache Xerces Java
   Copyright 1999-2007 The Apache Software Foundation

   This product includes software developed at
   The Apache Software Foundation (http://www.apache.org/).

   Portions of this software were originally based on the following:
     - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
     - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
     - voluntary contributions made by Paul Eng on behalf of the
```

```
       Apache Software Foundation that were originally developed at iClick,
 Inc.,
       software copyright (c) 1999.

Apache Commons Collections
Copyright 2001-2015 The Apache Software Foundation

Apache Commons Configuration
Copyright 2001-2008 The Apache Software Foundation

Apache Jakarta Commons Digester
Copyright 2001-2006 The Apache Software Foundation

Apache Commons BeanUtils
Copyright 2000-2008 The Apache Software Foundation

ApacheDS Protocol Kerberos Codec
Copyright 2003-2013 The Apache Software Foundation

ApacheDS I18n
Copyright 2003-2013 The Apache Software Foundation

Apache Directory API ASN.1 API
Copyright 2003-2013 The Apache Software Foundation

Apache Directory LDAP API Utilities
Copyright 2003-2013 The Apache Software Foundation

Curator Client
Copyright 2011-2015 The Apache Software Foundation

htrace-core
Copyright 2015 The Apache Software Foundation

   ---------------------------------------------------------------
   --  NOTICE file corresponding to section 4(d) of the Apache License,   --
   --  Version 2.0, in this case for the Apache Xerces Java distribution. --
   ---------------------------------------------------------------

   Portions of this software were originally based on the following:
     - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
     - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
     - voluntary contributions made by Paul Eng on behalf of the
       Apache Software Foundation that were originally developed at iClick,
 Inc.,
       software copyright (c) 1999.

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits
```

```
A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

Apache HttpCore
Copyright 2005-2017 The Apache Software Foundation

Curator Recipes
Copyright 2011-2015 The Apache Software Foundation

Curator Framework
Copyright 2011-2015 The Apache Software Foundation

Apache Commons Lang
Copyright 2001-2016 The Apache Software Foundation

This product includes software from the Spring Framework,
under the Apache License 2.0 (see: StringUtils.containsWhitespace())

Apache Commons Math
Copyright 2001-2015 The Apache Software Foundation

This product includes software developed for Orekit by
CS Systèmes d'Information (http://www.c-s.fr/)
Copyright 2010-2012 CS Systèmes d'Information

Apache log4j
Copyright 2007 The Apache Software Foundation

# Compress LZF

This library contains efficient implementation of LZF compression format,
as well as additional helper classes that build on JDK-provided gzip
 (deflat)
codec.

Library is licensed under Apache License 2.0, as per accompanying LICENSE
 file.

## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by
platform backend, but after initial versions has been developed outside of
Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor
fixes; these can be found from file "VERSION.txt" in SCM.

Apache Commons Net
Copyright 2001-2012 The Apache Software Foundation


Jackson core and extension components may be licensed under different
 licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
```

```
FasterXML.com (http://fasterxml.com).

Apache Ivy (TM)
Copyright 2007-2014 The Apache Software Foundation

Portions of Ivy were originally developed at
Jayasoft SARL (http://www.jayasoft.fr/)
and are licensed to the Apache Software Foundation under the
"Software Grant License Agreement"

SSH and SFTP support is provided by the JCraft JSch package,
which is open source software, available under
the terms of a BSD style license.
The original software and related information is available
at http://www.jcraft.com/jsch/.


ORC Core
Copyright 2013-2018 The Apache Software Foundation

Apache Commons Lang
Copyright 2001-2011 The Apache Software Foundation

ORC MapReduce
Copyright 2013-2018 The Apache Software Foundation

Apache Parquet Format
Copyright 2017 The Apache Software Foundation

Arrow Vectors
Copyright 2017 The Apache Software Foundation

Arrow Format
Copyright 2017 The Apache Software Foundation

Arrow Memory
Copyright 2017 The Apache Software Foundation

Apache Commons CLI
Copyright 2001-2009 The Apache Software Foundation

Apache Commons Daemon
Copyright 1999-2019 The Apache Software Foundation

Google Guice - Extensions - Servlet
Copyright 2006-2011 Google, Inc.

Apache Commons IO
Copyright 2002-2012 The Apache Software Foundation

Google Guice - Core Library
Copyright 2006-2011 Google, Inc.

mesos
Copyright 2017 The Apache Software Foundation

Apache Parquet Hadoop Bundle (Incubating)
Copyright 2015 The Apache Software Foundation

Hive Query Language
Copyright 2016 The Apache Software Foundation

Apache Extras Companion for log4j 1.2.
Copyright 2007 The Apache Software Foundation
```

```
Hive Metastore
Copyright 2016 The Apache Software Foundation

Apache Commons Logging
Copyright 2003-2013 The Apache Software Foundation

------------------------------------------------------------
--  NOTICE file corresponding to section 4(d) of the Apache License,   --
--  Version 2.0, in this case for the DataNucleus distribution.        --
------------------------------------------------------------

------------------------------------------------------------
This product includes software developed by many individuals,
including the following:
------------------------------------------------------------
Erik Bengtson
Andy Jefferson

------------------------------------------------------------
This product has included contributions from some individuals,
including the following:
------------------------------------------------------------

------------------------------------------------------------
This product includes software developed by many individuals,
including the following:
--------------------------------------------------------------------
Andy Jefferson
Erik Bengtson
Joerg von Frantzius
Marco Schulze

------------------------------------------------------------
This product has included contributions from some individuals,
including the following:
------------------------------------------------------------
Barry Haddow
Ralph Ullrich
David Ezzio
Brendan de Beer
David Eaves
Martin Taal
Tony Lai
Roland Szabo
Anton Troshin (Timesten)

------------------------------------------------------------
This product also includes software developed by the TJDO project
(http://tjdo.sourceforge.net/).
------------------------------------------------------------

--------------------------------------------------------------------
This product also includes software developed by the Apache Commons project
(http://commons.apache.org/).
--------------------------------------------------------------------

Apache Commons Pool
Copyright 1999-2009 The Apache Software Foundation

Apache Commons DBCP
Copyright 2001-2010 The Apache Software Foundation

Apache Java Data Objects (JDO)
```

```
Copyright 2005-2006 The Apache Software Foundation

Apache Jakarta HttpClient
Copyright 1999-2007 The Apache Software Foundation

Apache HttpClient
Copyright 1999-2017 The Apache Software Foundation

Apache Commons Codec
Copyright 2002-2014 The Apache Software Foundation

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

---------------------------------------------------------------

The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

---------------------------------------------------------------
- NOTICE file corresponding to section 4d of the Apache License Version 2.0
 -
---------------------------------------------------------------
This product includes software developed by
Joda.org (http://www.joda.org/).

---------------------------------------------------------------
This product has included contributions from some individuals,
including the following:
---------------------------------------------------------------
Joerg von Frantzius
Thomas Marti
Barry Haddow
Marco Schulze
Ralph Ullrich
David Ezzio
Brendan de Beer
David Eaves
Martin Taal
Tony Lai
Roland Szabo
Marcus Mennemeier
Xuan Baldauf
Eric Sultan

Apache Thrift
Copyright 2006-2010 The Apache Software Foundation.

---------------------------------------------------------------
--  NOTICE file corresponding to section 4(d) of the Apache License,
--  Version 2.0, in this case for the Apache Derby distribution.
--
--  DO NOT EDIT THIS FILE DIRECTLY. IT IS GENERATED
--  BY THE buildnotice TARGET IN THE TOP LEVEL build.xml FILE.
--
---------------------------------------------------------------

Apache Derby
```

```
Copyright 2004-2015 The Apache Software Foundation

---------------------------------------------------------------

Portions of Derby were originally developed by
International Business Machines Corporation and are
licensed to the Apache Software Foundation under the
"Software Grant and Corporate Contribution License Agreement",
informally known as the "Derby CLA".
The following copyright notice(s) were affixed to portions of the code
with which this file is now or was at one time distributed
and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation.  All
 rights reserved.

(C) Copyright IBM Corp. 2003.

The portion of the functionTests under 'nist' was originally
developed by the National Institute of Standards and Technology (NIST),
an agency of the United States Department of Commerce, and adapted by
International Business Machines Corporation in accordance with the NIST
Software Acknowledgment and Redistribution document at
http://www.itl.nist.gov/div897/ctg/sql_form.htm

The JDBC apis for small devices and JDBC3 (under java/stubs/jsr169 and
java/stubs/jdbc3) were produced by trimming sources supplied by the
Apache Harmony project. In addition, the Harmony SerialBlob and
SerialClob implementations are used. The following notice covers the Harmony
 sources:

Portions of Harmony were originally developed by
Intel Corporation and are licensed to the Apache Software
Foundation under the "Software Grant and Corporate Contribution
License Agreement", informally known as the "Intel Harmony CLA".

The Derby build relies on source files supplied by the Apache Felix
project. The following notice covers the Felix files:

  Apache Felix Main
  Copyright 2008 The Apache Software Foundation

  I. Included Software

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).
  Licensed under the Apache License 2.0.

  This product includes software developed at
  The OSGi Alliance (http://www.osgi.org/).
  Copyright (c) OSGi Alliance (2000, 2007).
  Licensed under the Apache License 2.0.

  This product includes software from http://kxml.sourceforge.net.
  Copyright (c) 2002,2003, Stefan Haustein, Oberhausen, Rhld., Germany.
  Licensed under BSD License.

  II. Used Software

  This product uses software developed at
  The OSGi Alliance (http://www.osgi.org/).
  Copyright (c) OSGi Alliance (2000, 2007).
  Licensed under the Apache License 2.0.
```

```
  III. License Summary
  - Apache License 2.0
  - BSD License

The Derby build relies on jar files supplied by the Apache Lucene
project. The following notice covers the Lucene files:

Apache Lucene
Copyright 2013 The Apache Software Foundation

Includes software from other Apache Software Foundation projects,
including, but not limited to:
 - Apache Ant
 - Apache Jakarta Regexp
 - Apache Commons
 - Apache Xerces

ICU4J, (under analysis/icu) is licensed under an MIT styles license
and Copyright (c) 1995-2008 International Business Machines Corporation and
 others

Some data files (under analysis/icu/src/data) are derived from Unicode data
 such
as the Unicode Character Database. See http://unicode.org/copyright.html for
 more
details.

Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is
BSD-licensed, created by Anders Møller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/
automaton) were
automatically generated with the moman/finenight FSA library, created by
Jean-Philippe Barrette-LaPierre. This library is available under an MIT
 license,
see http://sites.google.com/site/rrettesite/moman and
http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0.
See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling
 Checkin
g Package (jaspell): http://jaspell.sourceforge.net/
License: The BSD License (http://www.opensource.org/licenses/bsd-
license.php)

The snowball stemmers in
  analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
  analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
  http://snowball.tartarus.org/

The KStem stemmer in
  analysis/common/src/org/apache/lucene/analysis/en
```

```
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come
 with a default
stopword list that is BSD-licensed created by Jacques Savoy.  These files
 reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and
 Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by
 Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/
GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/
GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/
SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/
FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/
FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/
FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/
HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/
ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/
PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/
RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/
SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos,
 Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file
 resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was
provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
is derived from Unicode data such as the Unicode Character Database.
See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software
developed by Dawid Weiss and Marcin Miłkowski (http://
morfologik.blogspot.com/).
```

```
Morfologik uses data from Polish ispell/myspell dictionary
(http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia)
LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP)
(http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the
 original
source code for this can be found at http://www.eclipse.org/jetty/
downloads.php

------------------------------------------------------------------------------
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
------------------------------------------------------------------------------

This software includes a binary and/or source version of data from

  mecab-ipadic-2.7.0-20070801

which can be obtained from

  http://atilika.com/releases/mecab-ipadic/mecab-
ipadic-2.7.0-20070801.tar.gz

or

  http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/
mecab-ipadic-2.7.0-20070801.tar.gz

-------------------------------------------------------------
mecab-ipadic-2.7.0-20070801 Notice
------------------------------------------------------------------------------

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originate from ICOT Free Software.  The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis.  Accordingly, the
program is provided without any warranty whatsoever, whether express,
implied, statutory or otherwise.  The term "warranty" used herein
includes, but is not limited to, any warranty of the quality,
```

```
performance, merchantability and fitness for a particular purpose of
the program and the nonexistence of any infringement or violation of
any right of any third party.

Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other
organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general, special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter.  Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program.  The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.

In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.

The Derby build relies on a jar file supplied by the JSON Simple
project, hosted at https://code.google.com/p/json-simple/.
The JSON simple jar file is licensed under the Apache 2.0 License.

Hive CLI
Copyright 2016 The Apache Software Foundation

Hive JDBC
Copyright 2016 The Apache Software Foundation


Chill is a set of Scala extensions for Kryo.
Copyright 2012 Twitter, Inc.

Third Party Dependencies:

Kryo 2.17
BSD 3-Clause License
http://code.google.com/p/kryo

Commons-Codec 1.7
Apache Public License 2.0
http://hadoop.apache.org



Breeze is distributed under an Apache License V2.0 (See LICENSE)

------------------------------------------------------------
```

```
Proximal algorithms outlined in Proximal.scala (package
 breeze.optimize.proximal)
are based on https://github.com/cvxgrp/proximal (see LICENSE for details)
 and distributed with
Copyright (c) 2014 by Debasish Das (Verizon), all rights reserved.

-------------------------------------------------------------

QuadraticMinimizer class in package breeze.optimize.proximal is distributed
 with Copyright (c)
2014, Debasish Das (Verizon), all rights reserved.

-------------------------------------------------------------

NonlinearMinimizer class in package breeze.optimize.proximal is distributed
 with Copyright (c)
2015, Debasish Das (Verizon), all rights reserved.


stream-lib
Copyright 2016 AddThis

This product includes software developed by AddThis.

This product also includes code adapted from:

Apache Solr (http://lucene.apache.org/solr/)
Copyright 2014 The Apache Software Foundation

Apache Mahout (http://mahout.apache.org/)
Copyright 2014 The Apache Software Foundation

scala-xml
Copyright (c) 2002-2019 EPFL
Copyright (c) 2011-2019 Lightbend, Inc.

scala-xml includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

dropwizard-metrics-hadoop-metrics2-reporter
Copyright 2016 Josh Elser

Hive Beeline
Copyright 2019 The Apache Software Foundation

Hive CLI
Copyright 2019 The Apache Software Foundation

Hive Common
Copyright 2019 The Apache Software Foundation

Hive JDBC
Copyright 2019 The Apache Software Foundation

Hive Query Language
Copyright 2019 The Apache Software Foundation
```

```
Hive Llap Common
Copyright 2019 The Apache Software Foundation

Hive Metastore
Copyright 2019 The Apache Software Foundation

Hive Serde
Copyright 2019 The Apache Software Foundation

Hive Service RPC
Copyright 2019 The Apache Software Foundation

Hive Shims
Copyright 2019 The Apache Software Foundation

Hive Shims 0.23
Copyright 2019 The Apache Software Foundation

Hive Shims Common
Copyright 2019 The Apache Software Foundation

Hive Shims Scheduler
Copyright 2019 The Apache Software Foundation

Hive Storage API
Copyright 2018 The Apache Software Foundation

Hive Vector-Code-Gen Utilities
Copyright 2019 The Apache Software Foundation

Copyright 2015-2015 DataNucleus

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Android JSON library
Copyright (C) 2010 The Android Open Source Project

This product includes software developed by
The Android Open Source Project

Apache Velocity

Copyright (C) 2000-2007 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache Yetus - Audience Annotations
Copyright 2015-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
Ehcache V3
Copyright 2014-2016 Terracotta, Inc.

The product includes software from the Apache Commons Lang project,
under the Apache License 2.0 (see:
 org.ehcache.impl.internal.classes.commonslang)

Apache Geronimo JCache Spec 1.0
Copyright 2003-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby-kerb Admin
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby-kerb Client
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby-kerb Common
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby-kerb core
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby-kerb Crypto
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby-kerb Identity
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby-kerb Server
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerb Simple Kdc
```

```
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby-kerb Util
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby ASN1 Project
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby Config
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby PKIX Project
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby Util
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Kerby XDR Project
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Token provider
Copyright 2014-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Metrics
Copyright 2010-2013 Coda Hale and Yammer, Inc.

This product includes software developed by Coda Hale and Yammer, Inc.

This product includes code derived from the JSR-166 project
 (ThreadLocalRandom, Striped64,
LongAdder), which was released with the following comments:

    Written by Doug Lea with assistance from members of JCP JSR-166
```

```
    Expert Group and released to the public domain, as explained at
    http://creativecommons.org/publicdomain/zero/1.0/


--------------------------------------------------------------------------
Fourth Party Dependencies
--------------------------------------------------------------------------
RoaringBitmap:jar:0.7.45

-- NAME OF DEPENDENCY
RoaringBitmap:jar:0.7.45

-- License Type
Apache License 2.0

-- Copyright Notices

------------------------------------------------------------------------
--  NOTICE file corresponding to section 4(d) of the Apache License,
--  Version 2.0, in this case for the Apache Derby distribution.
--
--  DO NOT EDIT THIS FILE DIRECTLY. IT IS GENERATED
--  BY THE buildnotice TARGET IN THE TOP LEVEL build.xml FILE.
--
------------------------------------------------------------------------

Apache Derby
Copyright 2004-2018 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).


------------------------------------------------------------------------

Portions of Derby were originally developed by
International Business Machines Corporation and are
licensed to the Apache Software Foundation under the
"Software Grant and Corporate Contribution License Agreement",
informally known as the "Derby CLA".
The following copyright notice(s) were affixed to portions of the code
with which this file is now or was at one time distributed
and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation.  All
 rights reserved.

(C) Copyright IBM Corp. 2003.


------------------------------------------------------------------------


The portion of the functionTests under 'nist' was originally
developed by the National Institute of Standards and Technology (NIST),
an agency of the United States Department of Commerce, and adapted by
International Business Machines Corporation in accordance with the NIST
Software Acknowledgment and Redistribution document at
http://www.itl.nist.gov/div897/ctg/sql_form.htm



------------------------------------------------------------------------
```

```
The Derby build relies on source files supplied by the Apache Felix
project. The following notice covers the Felix files:

  Apache Felix Main
  Copyright 2008 The Apache Software Foundation


  I. Included Software

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).
  Licensed under the Apache License 2.0.

  This product includes software developed at
  The OSGi Alliance (http://www.osgi.org/).
  Copyright (c) OSGi Alliance (2000, 2007).
  Licensed under the Apache License 2.0.

  This product includes software from http://kxml.sourceforge.net.
  Copyright (c) 2002,2003, Stefan Haustein, Oberhausen, Rhld., Germany.
  Licensed under BSD License.

  II. Used Software

  This product uses software developed at
  The OSGi Alliance (http://www.osgi.org/).
  Copyright (c) OSGi Alliance (2000, 2007).
  Licensed under the Apache License 2.0.


  III. License Summary
  - Apache License 2.0
  - BSD License


-----------------------------------------------------------------------


The Derby build relies on jar files supplied by the Apache Lucene
project. The following notice covers the Lucene files:

Apache Lucene
Copyright 2013 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Includes software from other Apache Software Foundation projects,
including, but not limited to:
 - Apache Ant
 - Apache Jakarta Regexp
 - Apache Commons
 - Apache Xerces

ICU4J, (under analysis/icu) is licensed under an MIT styles license
and Copyright (c) 1995-2008 International Business Machines Corporation and
 others

Some data files (under analysis/icu/src/data) are derived from Unicode data
 such
as the Unicode Character Database. See http://unicode.org/copyright.html for
 more
details.
```

```
Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is
BSD-licensed, created by Anders Møller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/
automaton) were
automatically generated with the moman/finenight FSA library, created by
Jean-Philippe Barrette-LaPierre. This library is available under an MIT
 license,
see http://sites.google.com/site/rrettesite/moman and
http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0.
See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling
 Checkin
g Package (jaspell): http://jaspell.sourceforge.net/
License: The BSD License (http://www.opensource.org/licenses/bsd-
license.php)

The snowball stemmers in
  analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
  analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
  http://snowball.tartarus.org/

The KStem stemmer in
  analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come
 with a default
stopword list that is BSD-licensed created by Jacques Savoy.  These files
 reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and
 Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by
 Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/
GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/
GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/
SpanishLightStemmer.java
```

```
analysis/common/src/java/org/apache/lucene/analysis/fi/
FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/
FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/
FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/
HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/
ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/
PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/
RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/
SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos,
 Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file
 resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was
provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
is derived from Unicode data such as the Unicode Character Database.
See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software
developed by Dawid Weiss and Marcin Miłkowski (http://
morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary
(http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia)
LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP)
(http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the
 original
source code for this can be found at http://www.eclipse.org/jetty/
downloads.php

---------------------------------------------------------------------------
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
---------------------------------------------------------------------------

This software includes a binary and/or source version of data from

  mecab-ipadic-2.7.0-20070801

which can be obtained from

  http://atilika.com/releases/mecab-ipadic/mecab-
ipadic-2.7.0-20070801.tar.gz
```

```
or

  http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/
mecab-ipadic-2.7.0-20070801.tar.gz

--------------------------------------------------------------------------
mecab-ipadic-2.7.0-20070801 Notice
--------------------------------------------------------------------------

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originate from ICOT Free Software.  The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis.  Accordingly, the
program is provided without any warranty whatsoever, whether express,
implied, statutory or otherwise.  The term "warranty" used herein
includes, but is not limited to, any warranty of the quality,
performance, merchantability and fitness for a particular purpose of
the program and the nonexistence of any infringement or violation of
any right of any third party.

Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other
organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general, special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter.  Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program.  The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.
```

```
In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.

---------------------------------------------------------------------------

The Derby build relies on a jar file supplied by the JSON Simple
project, hosted at https://code.google.com/p/json-simple/.
The JSON simple jar file is licensed under the Apache 2.0 License.
No other notice covers that jar file.

------------------------------------------------------------------------------------------

arrow-vector:jar:0.15.1

-- NAME OF DEPENDENCY
arrow-vector:jar:0.15.1

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Arrow
Copyright 2016-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software from the SFrame project (BSD, 3-clause).
* Copyright (C) 2015 Dato, Inc.
* Copyright (c) 2009 Carnegie Mellon University.

This product includes software from the Feather project (Apache 2.0)
https://github.com/wesm/feather

This product includes software from the DyND project (BSD 2-clause)
https://github.com/libdynd

This product includes software from the LLVM project
 * distributed under the University of Illinois Open Source

This product includes software from the google-lint project
 * Copyright (c) 2009 Google Inc. All rights reserved.

This product includes software from the mman-win32 project
 * Copyright https://code.google.com/p/mman-win32/
 * Licensed under the MIT License;

This product includes software from the LevelDB project
 * Copyright (c) 2011 The LevelDB Authors. All rights reserved.
 * Use of this source code is governed by a BSD-style license that can be
 * Moved from Kudu http://github.com/cloudera/kudu

This product includes software from the CMake project
 * Copyright 2001-2009 Kitware, Inc.
 * Copyright 2012-2014 Continuum Analytics, Inc.
 * All rights reserved.
```

```
This product includes software from https://github.com/matthew-brett/
multibuild (BSD 2-clause)
 * Copyright (c) 2013-2016, Matt Terry and Matthew Brett; all rights
 reserved.

This product includes software from the Ibis project (Apache 2.0)
 * Copyright (c) 2015 Cloudera, Inc.
 * https://github.com/cloudera/ibis

This product includes software from Dremio (Apache 2.0)
  * Copyright (C) 2017-2018 Dremio Corporation
  * https://github.com/dremio/dremio-oss

This product includes software from Google Guava (Apache 2.0)
  * Copyright (C) 2007 The Guava Authors
  * https://github.com/google/guava

This product include software from CMake (BSD 3-Clause)
  * CMake - Cross Platform Makefile Generator
  * Copyright 2000-2019 Kitware, Inc. and Contributors

The web site includes files generated by Jekyll.

--------------------------------------------------------------------------------

This product includes code from Apache Kudu, which includes the following in
its NOTICE file:

  Apache Kudu
  Copyright 2016 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

  Portions of this software were developed at
  Cloudera, Inc (http://www.cloudera.com/).

--------------------------------------------------------------------------------

This product includes code from Apache ORC, which includes the following in
its NOTICE file:

  Apache ORC
  Copyright 2013-2019 The Apache Software Foundation

  This product includes software developed by The Apache Software
  Foundation (http://www.apache.org/).

  This product includes software developed by Hewlett-Packard:
  (c) Copyright [2014-2015] Hewlett-Packard Development Company, L.P

-----------------------------------------------------------------------------------------
avro-mapred:jar:hadoop2

-- NAME OF DEPENDENCY
avro-mapred:jar:hadoop2

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Avro
Copyright 2010-2019 The Apache Software Foundation
```

```
This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

NUnit license acknowledgement:

| Portions Copyright © 2002-2012 Charlie Poole or Copyright © 2002-2004 James
| W. Newkirk, Michael C. Two, Alexei A. Vorontsov or Copyright © 2000-2002
| Philip A. Craig

Based upon the representations of upstream licensors, it is understood that
portions of the mapreduce API included in the Java implementation are
 licensed
from various contributors under one or more contributor license agreements
 to
Odiago, Inc. and were then contributed by Odiago to Apache Avro, which has
 now
made them available under the Apache 2.0 license. The original file header
 text
is:

| Licensed to Odiago, Inc. under one or more contributor license
| agreements.  See the NOTICE file distributed with this work for
| additional information regarding copyright ownership.  Odiago, Inc.
| licenses this file to you under the Apache License, Version 2.0
| (the "License"); you may not use this file except in compliance
| with the License.  You may obtain a copy of the License at
|
|     https://www.apache.org/licenses/LICENSE-2.0
|
| Unless required by applicable law or agreed to in writing, software
| distributed under the License is distributed on an "AS IS" BASIS,
| WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
| implied.  See the License for the specific language governing
| permissions and limitations under the License.

The Odiago NOTICE at the time of the contribution:

| This product includes software developed by Odiago, Inc.
| (https://www.wibidata.com).

Apache Ivy includes the following in its NOTICE file:

| Apache Ivy
| Copyright 2007-2010 The Apache Software Foundation
|
| This product includes software developed by
| The Apache Software Foundation (https://www.apache.org/).
|
| Portions of Ivy were originally developed by
| Jayasoft SARL (http://www.jayasoft.fr/)
| and are licensed to the Apache Software Foundation under the
| "Software Grant License Agreement"
|
| SSH and SFTP support is provided by the JCraft JSch package,
| which is open source software, available under
| the terms of a BSD style license.
| The original software and related information is available
| at http://www.jcraft.com/jsch/.

Apache Log4Net includes the following in its NOTICE file:

| Apache log4net
| Copyright 2004-2015 The Apache Software Foundation
```

```
|
| This product includes software developed at
| The Apache Software Foundation (https://www.apache.org/).

csharp reflect serializers were contributed by Pitney Bowes Inc.

| Copyright 2019 Pitney Bowes Inc.
| Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except in compliance with the License.
| You may obtain a copy of the License at https://www.apache.org/licenses/
LICENSE-2.0.
| Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
| WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
| See the License for the specific language governing permissions and
 limitations under the License.

--------------------------------------------------------------------------------------------

avro:jar:1.8.2
-- NAME OF DEPENDENCY
avro:jar:1.8.2

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Avro
Copyright 2010-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

NUnit license acknowledgement:

| Portions Copyright © 2002-2012 Charlie Poole or Copyright © 2002-2004 James
| W. Newkirk, Michael C. Two, Alexei A. Vorontsov or Copyright © 2000-2002
| Philip A. Craig

Based upon the representations of upstream licensors, it is understood that
portions of the mapreduce API included in the Java implementation are
 licensed
from various contributors under one or more contributor license agreements
 to
Odiago, Inc. and were then contributed by Odiago to Apache Avro, which has
 now
made them available under the Apache 2.0 license. The original file header
 text
is:

| Licensed to Odiago, Inc. under one or more contributor license
| agreements.  See the NOTICE file distributed with this work for
| additional information regarding copyright ownership.  Odiago, Inc.
| licenses this file to you under the Apache License, Version 2.0
| (the "License"); you may not use this file except in compliance
| with the License.  You may obtain a copy of the License at
|
|     https://www.apache.org/licenses/LICENSE-2.0
|
| Unless required by applicable law or agreed to in writing, software
| distributed under the License is distributed on an "AS IS" BASIS,
| WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
| implied.  See the License for the specific language governing
```

```
| permissions and limitations under the License.

The Odiago NOTICE at the time of the contribution:

| This product includes software developed by Odiago, Inc.
| (https://www.wibidata.com).

Apache Ivy includes the following in its NOTICE file:

| Apache Ivy
| Copyright 2007-2010 The Apache Software Foundation
|
| This product includes software developed by
| The Apache Software Foundation (https://www.apache.org/).
|
| Portions of Ivy were originally developed by
| Jayasoft SARL (http://www.jayasoft.fr/)
| and are licensed to the Apache Software Foundation under the
| "Software Grant License Agreement"
|
| SSH and SFTP support is provided by the JCraft JSch package,
| which is open source software, available under
| the terms of a BSD style license.
| The original software and related information is available
| at http://www.jcraft.com/jsch/.

Apache Log4Net includes the following in its NOTICE file:

| Apache log4net
| Copyright 2004-2015 The Apache Software Foundation
|
| This product includes software developed at
| The Apache Software Foundation (https://www.apache.org/).

csharp reflect serializers were contributed by Pitney Bowes Inc.

| Copyright 2019 Pitney Bowes Inc.
| Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except in compliance with the License.
| You may obtain a copy of the License at https://www.apache.org/licenses/
LICENSE-2.0.
| Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
| WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
| See the License for the specific language governing permissions and
 limitations under the License.

---------------------------------------------------------------------------------------------

breeze_2.12:jar:1.0

-- NAME OF DEPENDENCY
breeze_2.12:jar:1.0

-- License Type
Apache License 2.0

-- Copyright Notices
Breeze is distributed under an Apache License V2.0 (See LICENSE)

---------------------------------------------------------------------------------

Proximal algorithms outlined in Proximal.scala (package
 breeze.optimize.proximal)
```

```
are based on https://github.com/cvxgrp/proximal (see LICENSE for details)
 and distributed with
Copyright (c) 2014 by Debasish Das (Verizon), all rights reserved.

-------------------------------------------------------------------------------

QuadraticMinimizer class in package breeze.optimize.proximal is distributed
 with Copyright (c)
2014, Debasish Das (Verizon), all rights reserved.

-------------------------------------------------------------------------------

NonlinearMinimizer class in package breeze.optimize.proximal is distributed
 with Copyright (c)
2015, Debasish Das (Verizon), all rights reserved.

-----------------------------------------------------------------------------------------------
chill-java:jar:0.9.5

-- NAME OF DEPENDENCY
chill-java:jar:0.9.5

-- License Type
Apache License 2.0

-- Copyright Notices

Chill is a set of Scala extensions for Kryo.
Copyright 2012 Twitter, Inc.

Third Party Dependencies:

Kryo 2.17
BSD 3-Clause License
http://code.google.com/p/kryo

Commons-Codec 1.7
Apache Public License 2.0
http://hadoop.apache.org

-----------------------------------------------------------------------------------------------
chill_2.12:jar:0.9.5

-- NAME OF DEPENDENCY
chill_2.12:jar:0.9.5

-- License Type
Apache License 2.0

-- Copyright Notices

Chill is a set of Scala extensions for Kryo.
Copyright 2012 Twitter, Inc.

Third Party Dependencies:

Kryo 2.17
BSD 3-Clause License
http://code.google.com/p/kryo

Commons-Codec 1.7
Apache Public License 2.0
http://hadoop.apache.org
```

```
---------------------------------------------------------------------------------------------

commons-codec:jar:1.10
-- NAME OF DEPENDENCY
commons-codec:jar:1.10

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Commons Codec
Copyright 2002-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

-------------------------------------------------------------------------------

The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

---------------------------------------------------------------------------------------------

Commons-crypto:jar:1.1.0
-- NAME OF DEPENDENCY
Commons-crypto:jar:1.1.0

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Commons Crypto
Copyright 2016-2020 The Apache Software Foundation
This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

---------------------------------------------------------------------------------------------



commons-compiler:jar:3.0.16
-- NAME OF DEPENDENCY
commons-compiler:jar:1.10

-- License Type

Janino - An embedded Java[TM] compiler

Copyright (c) 2001-2016, Arno Unkrig
Copyright (c) 2015-2016  TIBCO Software Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions
are met:

   1. Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
   2. Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials
      provided with the distribution.
   3. Neither the name of JANINO nor the names of its contributors
      may be used to endorse or promote products derived from this
      software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

commons-httpclient:jar:3.1

-- NAME OF DEPENDENCY
commons-httpclient:jar:3.1

-- License Type
Apache License 2.0

-- Copyright Notices

Apache HttpComponents Client
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
--------------------------------------------------------------------------------

commons-io:jar:2.7

-- NAME OF DEPENDENCY
commons-io:jar:2.7

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Commons IO
Copyright 2002-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
--------------------------------------------------------------------------------


commons-lang3:jar:3.9
```

```
-- NAME OF DEPENDENCY
commons-lang:jar:3.9

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Commons Lang
Copyright 2001-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
--------------------------------------------------------------------------------

commons-lang:jar:2.6

-- NAME OF DEPENDENCY
commons-lang:jar:2.6

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Commons Lang
Copyright 2001-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
--------------------------------------------------------------------------------

commons-math3:jar:3.4.1

-- NAME OF DEPENDENCY
commons-math3:jar:3.4.1

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Commons Math
Copyright 2001-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software developed for Orekit by
CS Systèmes d'Information (http://www.c-s.fr/)
Copyright 2010-2012 CS Systèmes d'Information
--------------------------------------------------------------------------------

commons-net:jar:3.1
-- NAME OF DEPENDENCY
commons-net:jar:3.1

-- License Type
Apache License 2.0

-- Copyright Notices

pache Commons Net
Copyright 2001-2021 The Apache Software Foundation
```

```
This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

------------------------------------------------------------------------------------------
commons-pool2:jar:2.6.2

-- NAME OF DEPENDENCY
commons-pool2:jar:2.6.2

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Commons Pool
Copyright 2001-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
------------------------------------------------------------------------------------------

commons-text:jar:1.6

-- NAME OF DEPENDENCY
commons-text:jar:1.6

-- License Type
Apache License 2.0

-- Copyright Notices

Apache Commons Text
Copyright 2014-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

------------------------------------------------------------------------------------------

compress-lzf:jar:1.0.3

-- NAME OF DEPENDENCY
compress-lzf:jar:1.0.3

-- License Type
Apache License 2.0

-- Copyright Notices
# Compress LZF

This library contains efficient implementation of LZF compression format,
as well as additional helper classes that build on JDK-provided gzip
 (deflat)
codec.

## Licensing

Library is licensed under Apache License 2.0, as per accompanying LICENSE
 file.

## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
```

```
It was started at Ning, inc., as an official Open Source process used by
platform backend, but after initial versions has been developed outside of
Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor
fixes; these can be found from file "VERSION.txt" in SCM.

--------------------------------------------------------------------------------

curator-recipes:jar:2.7.1
-- NAME OF DEPENDENCY
curator-recipes:jar:2.7.1

-- License Type
Apache License 2.0

-- Copyright Notices
Apache Curator
Copyright 2013-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

--------------------------------------------------------------------------------
datanucleus-core:jar:4.1.17

-- NAME OF DEPENDENCY
datanucleus-core:jar:4.1.17

-- License Type
Apache License 2.0

-- Copyright Notices

------------------------------------------------------------------------
--  NOTICE file corresponding to section 4(d) of the Apache License,   --
--  Version 2.0, in this case for the DataNucleus distribution.        --
------------------------------------------------------------------------

---------------------------------------------------------------------
This product includes software developed by many individuals,
including the following:
---------------------------------------------------------------------
Erik Bengtson
Andy Jefferson


---------------------------------------------------------------------
This product has included contributions from some individuals,
including the following:
---------------------------------------------------------------------
Joerg von Frantzius
Thomas Marti
Barry Haddow
Marco Schulze
Ralph Ullrich
David Ezzio
Brendan de Beer
David Eaves
```

```
Martin Taal
Tony Lai
Roland Szabo
Marcus Mennemeier
Xuan Baldauf
Eric Sultan


-------------------------------------------------------------------
This product also includes software developed by the TJDO project
(http://tjdo.sourceforge.net/).
-------------------------------------------------------------------
------------------------------------------------------------------------------------------
derby:jar:10.12.1.1
-- NAME OF DEPENDENCY
derby:jar:10.12.1.1

-- License Type
Apache License 2.0

-- Copyright Notices
---------------------------------------------------------------------------
--  NOTICE file corresponding to section 4(d) of the Apache License,
--  Version 2.0, in this case for the Apache Derby distribution.
--
--  DO NOT EDIT THIS FILE DIRECTLY. IT IS GENERATED
--  BY THE buildnotice TARGET IN THE TOP LEVEL build.xml FILE.
--
---------------------------------------------------------------------------

Apache Derby
Copyright 2004-2018 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).


---------------------------------------------------------------------------

Portions of Derby were originally developed by
International Business Machines Corporation and are
licensed to the Apache Software Foundation under the
"Software Grant and Corporate Contribution License Agreement",
informally known as the "Derby CLA".
The following copyright notice(s) were affixed to portions of the code
with which this file is now or was at one time distributed
and are placed here unaltered.

(C) Copyright 1997,2004 International Business Machines Corporation.  All
 rights reserved.

(C) Copyright IBM Corp. 2003.


---------------------------------------------------------------------------


The portion of the functionTests under 'nist' was originally
developed by the National Institute of Standards and Technology (NIST),
an agency of the United States Department of Commerce, and adapted by
International Business Machines Corporation in accordance with the NIST
Software Acknowledgment and Redistribution document at
http://www.itl.nist.gov/div897/ctg/sql_form.htm
```

```
---------------------------------------------------------------------------


The Derby build relies on source files supplied by the Apache Felix
project. The following notice covers the Felix files:

  Apache Felix Main
  Copyright 2008 The Apache Software Foundation


  I. Included Software

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).
  Licensed under the Apache License 2.0.

  This product includes software developed at
  The OSGi Alliance (http://www.osgi.org/).
  Copyright (c) OSGi Alliance (2000, 2007).
  Licensed under the Apache License 2.0.

  This product includes software from http://kxml.sourceforge.net.
  Copyright (c) 2002,2003, Stefan Haustein, Oberhausen, Rhld., Germany.
  Licensed under BSD License.

  II. Used Software

  This product uses software developed at
  The OSGi Alliance (http://www.osgi.org/).
  Copyright (c) OSGi Alliance (2000, 2007).
  Licensed under the Apache License 2.0.


  III. License Summary
  - Apache License 2.0
  - BSD License


---------------------------------------------------------------------------


The Derby build relies on jar files supplied by the Apache Lucene
project. The following notice covers the Lucene files:

Apache Lucene
Copyright 2013 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Includes software from other Apache Software Foundation projects,
including, but not limited to:
 - Apache Ant
 - Apache Jakarta Regexp
 - Apache Commons
 - Apache Xerces

ICU4J, (under analysis/icu) is licensed under an MIT styles license
and Copyright (c) 1995-2008 International Business Machines Corporation and
 others
```

```
Some data files (under analysis/icu/src/data) are derived from Unicode data
 such
as the Unicode Character Database. See http://unicode.org/copyright.html for
 more
details.

Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is
BSD-licensed, created by Anders Møller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/
automaton) were
automatically generated with the moman/finenight FSA library, created by
Jean-Philippe Barrette-LaPierre. This library is available under an MIT
 license,
see http://sites.google.com/site/rrettesite/moman and
http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0.
See http://code.google.com/p/google-code-prettify/

JUnit (junit-4.10) is licensed under the Common Public License v. 1.0
See http://junit.sourceforge.net/cpl-v10.html

This product includes code (JaspellTernarySearchTrie) from Java Spelling
 Checkin
g Package (jaspell): http://jaspell.sourceforge.net/
License: The BSD License (http://www.opensource.org/licenses/bsd-
license.php)

The snowball stemmers in
  analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
  analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
  http://snowball.tartarus.org/

The KStem stemmer in
  analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come
 with a default
stopword list that is BSD-licensed created by Jacques Savoy.  These files
 reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
See http://members.unine.ch/jacques.savoy/clef/index.html.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and
 Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by
 Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/
GermanLightStemmer.java
```

```
analysis/common/src/java/org/apache/lucene/analysis/de/
GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/
SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/
FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/
FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/
FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/
HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/
ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/
PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/
RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/
SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos,
 Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file
 resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was
provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
is derived from Unicode data such as the Unicode Character Database.
See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software
developed by Dawid Weiss and Marcin Miłkowski (http://
morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary
(http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia)
LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP)
(http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the
 original
source code for this can be found at http://www.eclipse.org/jetty/
downloads.php

---------------------------------------------------------------------------
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
---------------------------------------------------------------------------

This software includes a binary and/or source version of data from

  mecab-ipadic-2.7.0-20070801

which can be obtained from
```

```
  http://atilika.com/releases/mecab-ipadic/mecab-
ipadic-2.7.0-20070801.tar.gz

or

  http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/
mecab-ipadic-2.7.0-20070801.tar.gz

-----------------------------------------------------------------------------
mecab-ipadic-2.7.0-20070801 Notice
-----------------------------------------------------------------------------

Nara Institute of Science and Technology (NAIST),
the copyright holders, disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness, in no event shall NAIST be liable for
any special, indirect or consequential damages or any damages
whatsoever resulting from loss of use, data or profits, whether in an
action of contract, negligence or other tortuous action, arising out
of or in connection with the use or performance of this software.

A large portion of the dictionary entries
originate from ICOT Free Software.  The following conditions for ICOT
Free Software applies to the current dictionary as well.

Each User may also freely distribute the Program, whether in its
original form or modified, to any third party or parties, PROVIDED
that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
on, or be attached to, the Program, which is distributed substantially
in the same form as set out herein and that such intended
distribution, if actually made, will neither violate or otherwise
contravene any of the laws and regulations of the countries having
jurisdiction over the User or the intended distribution itself.

NO WARRANTY

The program was produced on an experimental basis in the course of the
research and development conducted during the project and is provided
to users as so produced on an experimental basis.  Accordingly, the
program is provided without any warranty whatsoever, whether express,
implied, statutory or otherwise.  The term "warranty" used herein
includes, but is not limited to, any warranty of the quality,
performance, merchantability and fitness for a particular purpose of
the program and the nonexistence of any infringement or violation of
any right of any third party.

Each user of the program will agree and understand, and be deemed to
have agreed and understood, that there is no warranty whatsoever for
the program and, accordingly, the entire risk arising from or
otherwise connected with the program is assumed by the user.

Therefore, neither ICOT, the copyright holder, or any other
organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general, special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter.  Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program.  The term
```

```
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.

In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.

---------------------------------------------------------------------------

The Derby build relies on a jar file supplied by the JSON Simple
project, hosted at https://code.google.com/p/json-simple/.
The JSON simple jar file is licensed under the Apache 2.0 License.
No other notice covers that jar file.

-------------------------------------------------------------------------------------------

--- ---------------------------------------------------------------------------
guava:jar:14.0.1-16
-- NAME OF DEPENDENCY
guava:jar:14.0.1-16

-- License Type
Apache License 2.0

-- Copyright Notices
* Copyright (C) 2004 The Guava Authors
 * Copyright (C) 2005 The Guava Authors
 * Copyright (C) 2006 The Guava Authors
 * Copyright (C) 2007 The Guava Authors
 * Copyright (C) 2008 The Guava Authors
 * Copyright (C) 2009 The Guava Authors
 * Copyright (C) 2010 The Guava Authors
 * Copyright (C) 2011 The Guava Authors
 * Copyright (C) 2011 The Guava Authors.
 * Copyright (C) 2012 The Guava Authors
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

--- ---------------------------------------------------------------------------

hadoop-client:jar:2.7.4
-- NAME OF DEPENDENCY
hadoop-client:jar:2.7.4

-- License Type
Apache License 2.0

-------------------------------------------------------------------------------------------
This product bundles various third-party components under other open source
```

```
licenses. This section summarizes those components and their licenses.
See licenses/ for text of these licenses.


Apache Software Foundation License 2.0
--------------------------------------
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/nvd3-1.8.5.* (css
 and js files)
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/
datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/
datanode/checker/TimeoutFuture.java


BSD 2-Clause
------------

hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/
io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/
tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|
unlinkat}.h


BSD 3-Clause
------------

hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/
bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/
gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/
util/bulk_crc32_x86.c
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-3.5.17.min.js


MIT License
-----------

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-
nvd3-1.0.9.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/angular-
route-1.6.4.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/
dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/
dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-
full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-
helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.5.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/
jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
```

```
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/
webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/
webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/
webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/resources/TERMINAL

-------
For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]:

Copyright (c) 2009-2017 Dave Gamble and cJSON contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Copyright :
Apache Hadoop
Copyright 2006 and onwards The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

-- Notices

Apache Hadoop
Copyright 2006 and onwards The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Export Control Notice
---------------------

This distribution includes cryptographic software.  The country in
which you currently reside may have restrictions on the import,
possession, use, and/or re-export to another country, of
encryption software.  BEFORE using any encryption software, please
check your country's laws, regulations and policies concerning the
import, possession, or use, and re-export of encryption software, to
see if this is permitted.  See <http://www.wassenaar.org/> for more
information.

The U.S. Government Department of Commerce, Bureau of Industry and
```

```
Security (BIS), has classified this software as Export Commodity
Control Number (ECCN) 5D002.C.1, which includes information security
software using or performing cryptographic functions with asymmetric
algorithms.  The form and manner of this Apache Software Foundation
distribution makes it eligible for export under the License Exception
ENC Technology Software Unrestricted (TSU) exception (see the BIS
Export Administration Regulations, Section 740.13) for both object
code and source code.

The following provides more details on the included cryptographic software:

This software uses the SSL libraries from the Jetty project written
by mortbay.org.
Hadoop Yarn Server Web Proxy uses the BouncyCastle Java
cryptography APIs written by the Legion of the Bouncy Castle Inc.


Apache Hadoop
Copyright 2006 and onwards The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Export Control Notice
---------------------

This distribution includes cryptographic software.  The country in
which you currently reside may have restrictions on the import,
possession, use, and/or re-export to another country, of
encryption software.  BEFORE using any encryption software, please
check your country's laws, regulations and policies concerning the
import, possession, or use, and re-export of encryption software, to
see if this is permitted.  See <http://www.wassenaar.org/> for more
information.

The U.S. Government Department of Commerce, Bureau of Industry and
Security (BIS), has classified this software as Export Commodity
Control Number (ECCN) 5D002.C.1, which includes information security
software using or performing cryptographic functions with asymmetric
algorithms.  The form and manner of this Apache Software Foundation
distribution makes it eligible for export under the License Exception
ENC Technology Software Unrestricted (TSU) exception (see the BIS
Export Administration Regulations, Section 740.13) for both object
code and source code.

The following provides more details on the included cryptographic software:

This software uses the SSL libraries from the Jetty project written
by mortbay.org.
Hadoop Yarn Server Web Proxy uses the BouncyCastle Java
cryptography APIs written by the Legion of the Bouncy Castle Inc.

// ----------------------------------------------------------------------
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for
// ----------------------------------------------------------------------


Apache Yetus
Copyright 2008-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
---
Additional licenses for the Apache Yetus Source/Website:
---


See LICENSE for terms.



Apache Avro
Copyright 2010 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

C JSON parsing provided by Jansson and
written by Petri Lehtinen. The original software is
available from http://www.digip.org/jansson/.


AWS SDK for Java
Copyright 2010-2014 Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

**********************
THIRD PARTY COMPONENTS
**********************
This software includes third party software subject to the following
 copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James
 Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from
 oauth.googlecode.com - Copyright 1998-2010 AOL Inc.

The licenses for these third party components are included in LICENSE.txt


Apache Commons BeanUtils
Copyright 2000-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons CLI
Copyright 2001-2009 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Codec
Copyright 2002-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

-------------------------------------------------------------------------------
```

```
The content of package org.apache.commons.codec.language.bm has been
 translated
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.


Apache Commons Collections
Copyright 2001-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Compress
Copyright 2002-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

The files in the package org.apache.commons.compress.archivers.sevenz
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (http://www.7-zip.org/sdk.html)


Apache Commons Configuration
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons CSV
Copyright 2005-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

src/main/resources/contract.txt
This file was downloaded from http://www.ferc.gov/docs-filing/eqr/soft-
tools/sample-csv/contract.txt and contains neither copyright notice nor
 license.

src/main/resources/transaction.txt
This file was downloaded from http://www.ferc.gov/docs-filing/eqr/soft-
tools/sample-csv/transaction.txt and contains neither copyright notice nor
 license.

src/test/resources/CSVFileParser/bom.csv
src/test/resources/CSVFileParser/test.csv
src/test/resources/CSVFileParser/test_default.txt
src/test/resources/CSVFileParser/test_default_comment.txt
src/test/resources/CSVFileParser/test_rfc4180.txt
src/test/resources/CSVFileParser/test_rfc4180_trim.txt
src/test/resources/CSVFileParser/testCSV85.csv
src/test/resources/CSVFileParser/testCSV85_default.txt
src/test/resources/CSVFileParser/testCSV85_ignoreEmpty.txt
These files are used as test data and test result specifications.
```

```
Apache Commons Daemon
Copyright 1999-2013 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Digester
Copyright 2001-2008 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).


Apache Commons IO
Copyright 2002-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Lang
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software from the Spring Framework,
under the Apache License 2.0 (see: StringUtils.containsWhitespace())


Apache Commons Logging
Copyright 2003-2013 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Math
Copyright 2001-2012 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

-------------------------------------------------------------------------------

The BracketFinder (package org.apache.commons.math3.optimization.univariate)
and PowellOptimizer (package org.apache.commons.math3.optimization.general)
classes are based on the Python code in module "optimize.py" (version 0.5)
developed by Travis E. Oliphant for the SciPy library (http://
www.scipy.org/)
Copyright © 2003-2009 SciPy Developers.
-------------------------------------------------------------------------------

The LinearConstraint, LinearObjectiveFunction, LinearOptimizer,
RelationShip, SimplexSolver and SimplexTableau classes in package
org.apache.commons.math3.optimization.linear include software developed by
Benjamin McCann (http://www.benmccann.com) and distributed with
the following copyright: Copyright 2009 Google Inc.
-------------------------------------------------------------------------------

This product includes software developed by the
University of Chicago, as Operator of Argonne National
```

```
Laboratory.
The LevenbergMarquardtOptimizer class in package
org.apache.commons.math3.optimization.general includes software
translated from the lmder, lmpar and qrsolv Fortran routines
from the Minpack package
Minpack Copyright Notice (1999) University of Chicago.  All rights reserved
--------------------------------------------------------------------------------

The GraggBulirschStoerIntegrator class in package
org.apache.commons.math3.ode.nonstiff includes software translated
from the odex Fortran routine developed by E. Hairer and G. Wanner.
Original source copyright:
Copyright (c) 2004, Ernst Hairer
--------------------------------------------------------------------------------

The EigenDecompositionImpl class in package
org.apache.commons.math3.linear includes software translated
from some LAPACK Fortran routines.  Original source copyright:
Copyright (c) 1992-2008 The University of Tennessee.  All rights reserved.
--------------------------------------------------------------------------------

The MersenneTwister class in package org.apache.commons.math3.random
includes software translated from the 2002-01-26 version of
the Mersenne-Twister generator written in C by Makoto Matsumoto and Takuji
Nishimura. Original source copyright:
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
All rights reserved
--------------------------------------------------------------------------------

The LocalizedFormatsTest class in the unit tests is an adapted version of
the OrekitMessagesTest class from the orekit library distributed under the
terms of the Apache 2 licence. Original source copyright:
Copyright 2010 CS Systèmes d'Information
--------------------------------------------------------------------------------

The HermiteInterpolator class and its corresponding test have been imported
 from
the orekit library distributed under the terms of the Apache 2 licence.
 Original
source copyright:
Copyright 2010-2012 CS Systèmes d'Information
--------------------------------------------------------------------------------

The creation of the package "o.a.c.m.analysis.integration.gauss" was
 inspired
by an original code donated by Sébastien Brisard.
--------------------------------------------------------------------------------


The complete text of licenses and disclaimers associated with the the
 original
sources enumerated above at the time of code translation are in the
 LICENSE.txt
file.


Apache Commons Net
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Text
```

```
Copyright 2014-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Commons Validator
Copyright 2001-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Curator
Copyright 2013-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Ehcache V3
Copyright 2014-2016 Terracotta, Inc.

The product includes software from the Apache Commons Lang project,
under the Apache License 2.0 (see:
 org.ehcache.impl.internal.classes.commonslang)


Apache Geronimo
Copyright 2003-2018 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).


Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------------------------------------------------------------

This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:

  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp

This product contains a modified portion of 'Netty', an open source
networking library, which can be obtained at:
```

```
  * LICENSE:
    * netty/third_party/netty/LICENSE.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://netty.io
  * LOCATION_IN_GRPC:
    * netty/third_party/netty


Apache HBase
Copyright 2007-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

--
This product incorporates portions of the 'Hadoop' project

Copyright 2007-2009 The Apache Software Foundation

Licensed under the Apache License v2.0
--
Our Orca logo we got here: http://www.vectorfree.com/jumping-orca
It is licensed Creative Commons Attribution 3.0.
See https://creativecommons.org/licenses/by/3.0/us/
We changed the logo by stripping the colored background, inverting
it and then rotating it some.

Later we found that vectorfree.com image is not properly licensed.
The original is owned by vectorportal.com. The original was
relicensed so we could use it as Creative Commons Attribution 3.0.
The license is bundled with the download available here:
http://www.vectorportal.com/subcategory/205/KILLER-WHALE-FREE-VECTOR.eps/
ifile/9136/detailtest.asp
--
This product includes portions of the Bootstrap project v3.0.0

Copyright 2013 Twitter, Inc.

Licensed under the Apache License v2.0

This product uses the Glyphicons Halflings icon set.

http://glyphicons.com/

Copyright Jan Kovařík

Licensed under the Apache License v2.0 as a part of the Bootstrap project.

--
This product includes portions of the Guava project v14 and v21,
 specifically
'hbase-common/src/main/java/org/apache/hadoop/hbase/io/
LimitInputStream.java'
'hbase-common/src/main/java/org/apache/hadoop/hbase/util/Bytes.java'

Copyright (C) 2007 The Guava Authors

Licensed under the Apache License, Version 2.0


Apache HTrace
Copyright 2016 The Apache Software Foundation
```

```
This product includes software developed at The Apache Software
Foundation (http://www.apache.org/).

In addition, this product includes software dependencies. See
the accompanying LICENSE.txt for a listing of dependencies
that are NOT Apache licensed (with pointers to their licensing)

Apache HTrace includes an Apache Thrift connector to Zipkin. Zipkin
is a distributed tracing system that is Apache 2.0 Licensed.
Copyright 2012 Twitter, Inc.


Apache HttpComponents Client
Copyright 1999-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache HttpComponents Core
Copyright 2005-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


---------------------------------------------------------------
 Jetty Web Container
 Copyright 1995-2017 Mort Bay Consulting Pty Ltd.
---------------------------------------------------------------

The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
unless otherwise noted.

Jetty is dual licensed under both

  * The Apache 2.0 License
    http://www.apache.org/licenses/LICENSE-2.0.html

      and

  * The Eclipse Public 1.0 License
    http://www.eclipse.org/legal/epl-v10.html

Jetty may be distributed under either license.

------
Eclipse

The following artifacts are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message


The following artifacts are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish


------
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
```

```
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

 * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html


------
OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm


------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl


------
MortBay

The following artifacts are ASL2 licensed.  Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
  org.apache.tomcat:tomcat-jasper
  org.apache.tomcat:tomcat-juli
  org.apache.tomcat:tomcat-jsp-api
  org.apache.tomcat:tomcat-el-api
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-api
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
  org.apache.tomcat:tomcat-jasper-el
  org.apache.tomcat:tomcat-el-api


------
Mortbay
```

```
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.


Apache Kafka
Copyright 2012 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache Kerby
Copyright 2015-2017 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Apache log4j
Copyright 2010 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


Metrics
Copyright 2010-2013 Coda Hale and Yammer, Inc.

This product includes software developed by Coda Hale and Yammer, Inc.

This product includes code derived from the JSR-166 project
 (ThreadLocalRandom, Striped64,
LongAdder), which was released with the following comments:

    Written by Doug Lea with assistance from members of JCP JSR-166
    Expert Group and released to the public domain, as explained at
    http://creativecommons.org/publicdomain/zero/1.0/



                            The Netty Project
                            -----------------

Please visit the Netty web site for more information:

  * http://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
```

```
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
  * HOMEPAGE:
    * http://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
```

```
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
```

```
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
  * HOMEPAGE:
    * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
  * HOMEPAGE:
    * http://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
  * HOMEPAGE:
    * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (GNU LGPL 2.1)
  * HOMEPAGE:
    * http://www.jboss.org/jbossmarshalling

This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
  * HOMEPAGE:
```

```
    * http://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/twitter/hpack

This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/


This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper


This product includes software developed by Google
 Snappy: http://code.google.com/p/snappy/ (New BSD License)

This product includes software developed by Apache
 PureJavaCrc32C from apache-hadoop-common http://hadoop.apache.org/
 (Apache 2.0 license)

This library containd statically linked libstdc++. This inclusion is allowed
 by
"GCC RUntime Library Exception"
http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html

-- Contributors --
  * Tatu Saloranta
    * Providing benchmark suite
  * Alec Wysoker
    * Performance and memory usage improvement


Apache ZooKeeper
Copyright 2009-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
-- Copyright Notices
Apache Hive
Copyright 2008-2018 The Apache Software Foundation

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This project includes software licensed under the JSON license.
-----------------------------------------------------------------------------------------------

hive-common:jar:2.3.7

-- NAME OF DEPENDENCY
hive-common:jar:2.3.7

-- License Type
Apache License 2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


APACHE HIVE SUBCOMPONENTS:

The Apache Hive project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.


For the SQLLine package:

Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux

From: http://sqlline.sourceforge.net/#license

"SQLLine is distributed under the BSD License, meaning that you are free to
 redistribute, modify, or sell the software with almost no restrictions."

Statement from Marc Prud'hommeaux regarding inconsistent licenses in some
 SQLLine source files:

> SQLLine was once GPL, but it was changed to be BSD a few years back.
> Any references to the GPL are vestigial. Hopefully the license
> declaration at http://sqlline.sourceforge.net/#license is sufficiently
> authoritative in this regard.


For the org.apache.hive.beeline.ClassNameCompleter class:

Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
```

```
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

For org.apache.hadoop.hive.llap.daemon.impl.PriorityBlockingDeque class:

The BSD 3-Clause License

Copyright (c) 2007, Aviad Ben Dov

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.
3. Neither the name of Infomancers, Ltd. nor the names of its contributors
 may be
used to endorse or promote products derived from this software without
 specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


For jquery.sparkline.js:
```

```
License: New BSD License (3-clause)

Copyright (c) 2012, Splunk Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Splunk Inc nor the names of its contributors may
      be used to endorse or promote products derived from this software
 without
      specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For json.human.js/json.human.css:

Copyright (c) 2016 Mariano Guerra

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For argparse.py:
```

```
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010
Python Software Foundation; All Rights Reserved" are retained in Python
 alone or
in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

For google re2j (https://github.com/google/re2j/blob/master/LICENSE):

Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-- Copyright Notices

Apache Hive
Copyright 2008-2018 The Apache Software Foundation

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This project includes software licensed under the JSON license.
-------------------------------------------------------------------------------------------
hive-exec:jar:core:2.3.7

-- NAME OF DEPENDENCY
hive-exec:jar:core:2.3.7
-- License Type
Apache License 2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


APACHE HIVE SUBCOMPONENTS:

The Apache Hive project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.


For the SQLLine package:

Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux

From: http://sqlline.sourceforge.net/#license
```

```
"SQLLine is distributed under the BSD License, meaning that you are free to
 redistribute, modify, or sell the software with almost no restrictions."

Statement from Marc Prud'hommeaux regarding inconsistent licenses in some
 SQLLine source files:

> SQLLine was once GPL, but it was changed to be BSD a few years back.
> Any references to the GPL are vestigial. Hopefully the license
> declaration at http://sqlline.sourceforge.net/#license is sufficiently
> authoritative in this regard.


For the org.apache.hive.beeline.ClassNameCompleter class:

Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

For org.apache.hadoop.hive.llap.daemon.impl.PriorityBlockingDeque class:

The BSD 3-Clause License

Copyright (c) 2007, Aviad Ben Dov

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this
```

```
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.
3. Neither the name of Infomancers, Ltd. nor the names of its contributors
 may be
used to endorse or promote products derived from this software without
 specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


For jquery.sparkline.js:

License: New BSD License (3-clause)

Copyright (c) 2012, Splunk Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Splunk Inc nor the names of its contributors may
      be used to endorse or promote products derived from this software
 without
      specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
For json.human.js/json.human.css:

Copyright (c) 2016 Mariano Guerra

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For argparse.py:

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010
Python Software Foundation; All Rights Reserved" are retained in Python
 alone or
in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
```

```
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

For google re2j (https://github.com/google/re2j/blob/master/LICENSE):

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-- Copyright Notices

Apache Hive
Copyright 2008-2018 The Apache Software Foundation

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This project includes software licensed under the JSON license.
------------------------------------------------------------------------------------------
hive-llap-common:jar:2.3.7

-- NAME OF DEPENDENCY
hive-llap-common:jar:2.3.7
```

```
-- License Type
Apache License 2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


APACHE HIVE SUBCOMPONENTS:

The Apache Hive project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.


For the SQLLine package:

Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux

From: http://sqlline.sourceforge.net/#license

"SQLLine is distributed under the BSD License, meaning that you are free to
 redistribute, modify, or sell the software with almost no restrictions."

Statement from Marc Prud'hommeaux regarding inconsistent licenses in some
 SQLLine source files:

> SQLLine was once GPL, but it was changed to be BSD a few years back.
> Any references to the GPL are vestigial. Hopefully the license
> declaration at http://sqlline.sourceforge.net/#license is sufficiently
> authoritative in this regard.


For the org.apache.hive.beeline.ClassNameCompleter class:

Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
```

```
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

For org.apache.hadoop.hive.llap.daemon.impl.PriorityBlockingDeque class:

The BSD 3-Clause License

Copyright (c) 2007, Aviad Ben Dov

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.
3. Neither the name of Infomancers, Ltd. nor the names of its contributors
 may be
used to endorse or promote products derived from this software without
 specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


For jquery.sparkline.js:

License: New BSD License (3-clause)

Copyright (c) 2012, Splunk Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
```

```
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Splunk Inc nor the names of its contributors may
      be used to endorse or promote products derived from this software
 without
      specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For json.human.js/json.human.css:

Copyright (c) 2016 Mariano Guerra

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For argparse.py:

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
```

```
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010
Python Software Foundation; All Rights Reserved" are retained in Python
 alone or
in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

For google re2j (https://github.com/google/re2j/blob/master/LICENSE):

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright

-- Copyright Notices

Apache Hive
Copyright 2008-2018 The Apache Software Foundation

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This project includes software licensed under the JSON license.
-----------------------------------------------------------------------------------------
hive-metastore:jar:2.3.7

-- NAME OF DEPENDENCY
hive-metastore:jar:2.3.7

-- License Type
Apache License 2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


APACHE HIVE SUBCOMPONENTS:

The Apache Hive project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.


For the SQLLine package:

Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux

From: http://sqlline.sourceforge.net/#license

"SQLLine is distributed under the BSD License, meaning that you are free to
 redistribute, modify, or sell the software with almost no restrictions."

Statement from Marc Prud'hommeaux regarding inconsistent licenses in some
 SQLLine source files:

> SQLLine was once GPL, but it was changed to be BSD a few years back.
> Any references to the GPL are vestigial. Hopefully the license
> declaration at http://sqlline.sourceforge.net/#license is sufficiently
> authoritative in this regard.
```

```
For the org.apache.hive.beeline.ClassNameCompleter class:

Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

For org.apache.hadoop.hive.llap.daemon.impl.PriorityBlockingDeque class:

The BSD 3-Clause License

Copyright (c) 2007, Aviad Ben Dov

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.
3. Neither the name of Infomancers, Ltd. nor the names of its contributors
 may be
used to endorse or promote products derived from this software without
 specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


For jquery.sparkline.js:

License: New BSD License (3-clause)

Copyright (c) 2012, Splunk Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Splunk Inc nor the names of its contributors may
      be used to endorse or promote products derived from this software
 without
      specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For json.human.js/json.human.css:

Copyright (c) 2016 Mariano Guerra

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
```

```
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For argparse.py:

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010
Python Software Foundation; All Rights Reserved" are retained in Python
 alone or
in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
```

```
7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

For google re2j (https://github.com/google/re2j/blob/master/LICENSE):

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright

Apache Hive
Copyright 2008-2020 The Apache Software Foundation

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).


hive-serde:jar:2.3.7

-- NAME OF DEPENDENCY
hive-serde:jar:2.3.7

-- License Type
Apache License 2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


APACHE HIVE SUBCOMPONENTS:
```

```
The Apache Hive project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.


For the SQLLine package:

Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux

From: http://sqlline.sourceforge.net/#license

"SQLLine is distributed under the BSD License, meaning that you are free to
 redistribute, modify, or sell the software with almost no restrictions."

Statement from Marc Prud'hommeaux regarding inconsistent licenses in some
 SQLLine source files:

> SQLLine was once GPL, but it was changed to be BSD a few years back.
> Any references to the GPL are vestigial. Hopefully the license
> declaration at http://sqlline.sourceforge.net/#license is sufficiently
> authoritative in this regard.


For the org.apache.hive.beeline.ClassNameCompleter class:

Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

For org.apache.hadoop.hive.llap.daemon.impl.PriorityBlockingDeque class:

The BSD 3-Clause License
```

```
Copyright (c) 2007, Aviad Ben Dov

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.
3. Neither the name of Infomancers, Ltd. nor the names of its contributors
 may be
used to endorse or promote products derived from this software without
 specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


For jquery.sparkline.js:

License: New BSD License (3-clause)

Copyright (c) 2012, Splunk Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Splunk Inc nor the names of its contributors may
      be used to endorse or promote products derived from this software
 without
      specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
```

```
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For json.human.js/json.human.css:

Copyright (c) 2016 Mariano Guerra

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For argparse.py:

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010
```

```
Python Software Foundation; All Rights Reserved" are retained in Python
 alone or
in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

For google re2j (https://github.com/google/re2j/blob/master/LICENSE):

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
-- Copyright Notices

Apache Hive
Copyright 2008-2018 The Apache Software Foundation

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This project includes software licensed under the JSON license.
-----------------------------------------------------------------------------------------------

hive-shims:jar:2.3.7

-- NAME OF DEPENDENCY
hive-shims:jar:2.3.7

-- License Type
Apache License 2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


APACHE HIVE SUBCOMPONENTS:

The Apache Hive project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.


For the SQLLine package:

Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux

From: http://sqlline.sourceforge.net/#license

"SQLLine is distributed under the BSD License, meaning that you are free to
 redistribute, modify, or sell the software with almost no restrictions."

Statement from Marc Prud'hommeaux regarding inconsistent licenses in some
 SQLLine source files:

> SQLLine was once GPL, but it was changed to be BSD a few years back.
> Any references to the GPL are vestigial. Hopefully the license
> declaration at http://sqlline.sourceforge.net/#license is sufficiently
> authoritative in this regard.


For the org.apache.hive.beeline.ClassNameCompleter class:

Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

For org.apache.hadoop.hive.llap.daemon.impl.PriorityBlockingDeque class:

The BSD 3-Clause License

Copyright (c) 2007, Aviad Ben Dov

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.
3. Neither the name of Infomancers, Ltd. nor the names of its contributors
 may be
used to endorse or promote products derived from this software without
 specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


For jquery.sparkline.js:
```

```
License: New BSD License (3-clause)

Copyright (c) 2012, Splunk Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Splunk Inc nor the names of its contributors may
      be used to endorse or promote products derived from this software
 without
      specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For json.human.js/json.human.css:

Copyright (c) 2016 Mariano Guerra

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For argparse.py:
```

```
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010
Python Software Foundation; All Rights Reserved" are retained in Python
 alone or
in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

For google re2j (https://github.com/google/re2j/blob/master/LICENSE):

Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-- Copyright Notices

Apache Hive
Copyright 2008-2018 The Apache Software Foundation

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This project includes software licensed under the JSON license.
-----------------------------------------------------------------------------------------------

hive-storage-api:jar:2.7.1

-- NAME OF DEPENDENCY
hive-storage-api:jar:2.7.1

-- License Type
Apache License 2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


APACHE HIVE SUBCOMPONENTS:

The Apache Hive project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.


For the SQLLine package:

Copyright (c) 2002, 2003, 2004, 2005 Marc Prud'hommeaux
```

```
From: http://sqlline.sourceforge.net/#license

"SQLLine is distributed under the BSD License, meaning that you are free to
 redistribute, modify, or sell the software with almost no restrictions."

Statement from Marc Prud'hommeaux regarding inconsistent licenses in some
 SQLLine source files:

> SQLLine was once GPL, but it was changed to be BSD a few years back.
> Any references to the GPL are vestigial. Hopefully the license
> declaration at http://sqlline.sourceforge.net/#license is sufficiently
> authoritative in this regard.


For the org.apache.hive.beeline.ClassNameCompleter class:

Copyright (c) 2002-2006, Marc Prud'hommeaux <mwp1@cornell.edu>
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

For org.apache.hadoop.hive.llap.daemon.impl.PriorityBlockingDeque class:

The BSD 3-Clause License

Copyright (c) 2007, Aviad Ben Dov

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list
of conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright notice,
 this
list of conditions and the following disclaimer in the documentation and/or
 other
materials provided with the distribution.
3. Neither the name of Infomancers, Ltd. nor the names of its contributors
 may be
used to endorse or promote products derived from this software without
 specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


For jquery.sparkline.js:

License: New BSD License (3-clause)

Copyright (c) 2012, Splunk Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Splunk Inc nor the names of its contributors may
      be used to endorse or promote products derived from this software
 without
      specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF THIS
```

```
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For json.human.js/json.human.css:

Copyright (c) 2016 Mariano Guerra

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

For argparse.py:

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010
Python Software Foundation; All Rights Reserved" are retained in Python
 alone or
in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
```

```
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

For google re2j (https://github.com/google/re2j/blob/master/LICENSE):

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-- Copyright Notices

Apache Hive
Copyright 2008-2018 The Apache Software Foundation

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This project includes software licensed under the JSON license.
--------------------
```

```
-- NAME OF DEPENDENCY
httpclient:jar:4.5.6

-- License Type
Apache License 2.0


-- Copyright Notices
Apache HttpComponents Client
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

----------------------------------------------------------

httpcore:jar:4.4.12

-- NAME OF DEPENDENCY
httpcore:jar:4.4.12

-- License Type
Apache License 2.0


-- Copyright Notices
Apache HttpComponents Core
Copyright 2005-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
----------------------------------------------------------

httpmime:jar:4.5.6


-- NAME OF DEPENDENCY
httpmime:jar:4.5.6

-- License Type
Apache License 2.0


-- Copyright Notices
Apache HttpComponents Client
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
----------------------------------------------------------
ivy:jar:2.4.0

-- NAME OF DEPENDENCY
ivy:jar:2.4.0

-- License Type
Apache License 2.0

-- Copyright Notices
Apache Ivy (TM)
Copyright 2007-2019 The Apache Software Foundation

This product includes software developed at
```

```
The Apache Software Foundation (http://www.apache.org/).

Portions of Ivy were originally developed at
Jayasoft SARL (http://www.jayasoft.fr/)
and are licensed to the Apache Software Foundation under the
"Software Grant License Agreement"

SSH and SFTP support is provided by the JCraft JSch package,
which is open source software, available under
the terms of a BSD style license.
The original software and related information is available
at http://www.jcraft.com/jsch/.

The Scp class is based on the SCPClient from the ganymed ssh
library. Which has been distributed under the BSD style license
included in the LICENSE file.

------------------------------------------------------------------------------------------
jackson-annotations:jar:2.10.5

-- NAME OF DEPENDENCY
jackson-annotations:jar:2.10.5

-- License Type
Apache License 2.0

-- Copyright Notices
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
------------------------------------------------------------------------------------------

jackson-core:jar:2.10.5

-- NAME OF DEPENDENCY
jackson-core:jar:2.10.5

-- License Type
Apache License 2.0

-- Copyright Notices
Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
------------------------------------------------------------------------------------------

jackson-databind:jar:2.10.5.1

-- NAME OF DEPENDENCY
jackson-databind:jar:2.10.5.1

-- License Type
Apache License 2.0

-- Copyright Notices
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different
 licenses.
```

```
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
----------------------------------------------------------------------------------------

jackson-mapper-asl:jar:1.9.13

-- NAME OF DEPENDENCY
jackson-mapper-asl:jar:1.9.13

-- License Type
Apache License 2.0

-- Copyright Notices

/* Jackson JSON-processor.
 *
 * Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
 *
 * Licensed under the License specified in file LICENSE, included with
 * the source code and binary code bundles.
 * You may not use this file except in compliance with the License.
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
----------------------------------------------------------------------------------------

jackson-module-scala_2.12:jar:2.10.5

-- NAME OF DEPENDENCY
jackson-module-scala_2.12:jar:2.10.5

-- License Type
Apache License 2.0

-- Copyright Notices

This copy of Jackson JSON processor Scala module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

----------------------------------------------------------------------------------------

jcl-over-slf4j:jar:1.7.30

-- NAME OF DEPENDENCY
jcl-over-slf4j:jar:1.7.30
```

```
-- License Type
Apache License 2.0

-- Copyright Notices

Copyright 2001-2004 The Apache Software Foundation.

 Licensed under the Apache License, Version 2.0 (the "License");
 you may not use this file except in compliance with the License.
 You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
-------------------------------------------------------------------------------------------

jetty-client:jar:9.4.38.v20210224

-- NAME OF DEPENDENCY
jetty-client:jar:9.4.38.v20210224

-- License Type
Apache License 2.0

-- Copyright Notices

Notices for Eclipse Jetty
-------------------------
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message
```

```
The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
```

```
granted provided that the copyright notice appears in all copies.
------------------------------------------------------------------------------------------

jetty-client:jar:9.4.38.v20210224

-- NAME OF DEPENDENCY
jetty-client:jar:9.4.38.v20210224

-- License Type
Apache License 2.0

-- Copyright Notices

Notices for Eclipse Jetty
-------------------------
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
```

```
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
--------------------
```

```
Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
```

```
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
--------------------------------------------------------------------------------



jetty-http:jar:9.4.38.v20210224

-- NAME OF DEPENDENCY
jetty-http:jar:9.4.38.v20210224

-- License Type
Apache License 2.0

-- Copyright Notices

Notices for Eclipse Jetty
-------------------------
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:
```

```
  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
```

```
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
--------------------------------------------------------------------------------

jetty-plus:jar:9.4.38.v20210224

-- NAME OF DEPENDENCY
jetty-plus:jar:9.4.38.v20210224

-- License Type
Apache License 2.0

-- Copyright Notices

Notices for Eclipse Jetty
-------------------------
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message
```

```
The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
```

```
--------------------------------------------------------------------------------

jetty-proxy:jar:9.4.38.v20210224

-- NAME OF DEPENDENCY
jetty-proxy:jar:9.4.38.v20210224

-- License Type
Apache License 2.0

-- Copyright Notices

Notices for Eclipse Jetty
-------------------------
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm
```

```
The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
--------------------------------------------------------------------------------------------

jetty-security:jar:9.4.38.v20210224

-- NAME OF DEPENDENCY
jetty-security:jar:9.4.38.v20210224

-- License Type
Apache License 2.0

-- Copyright Notices

Notices for Eclipse Jetty
-------------------------
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/
```

```
Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
```

```
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
--------------------------------------------------------------------------------

jetty-server:jar:9.4.38.v20210224

-- NAME OF DEPENDENCY
jetty-server:jar:9.4.38.v20210224

-- License Type
Apache License 2.0

-- Copyright Notices

Notices for Eclipse Jetty
-------------------------
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0
```

```
  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
```

```
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
------------------------------------------------------------------------------------------

jetty-servlet:jar:9.4.38.v20210224

-- NAME OF DEPENDENCY
jetty-servlet:jar:9.4.38.v20210224

-- License Type
Apache License 2.0

-- Copyright Notices

Notices for Eclipse Jetty
--------------------------
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
--------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
```

```
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
--------------------------------------------------------------------------------

jetty-servlets:jar:9.4.38.v20210224
```

```
-- NAME OF DEPENDENCY
jetty-servlets:jar:9.4.38.v20210224

-- License Type
Apache License 2.0

-- Copyright Notices

Notices for Eclipse Jetty
-------------------------
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.

Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
```

```
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
--------------------------------------------------------------------------------

jetty-util:jar:9.4.38.v20210224

-- NAME OF DEPENDENCY
jetty-util:jar:9.4.38.v20210224

-- License Type
Apache License 2.0

-- Copyright Notices

Notices for Eclipse Jetty
-------------------------
This content is produced and maintained by the Eclipse Jetty project.

Project home: https://www.eclipse.org/jetty/

Trademarks
----------
Eclipse Jetty, and Jetty are trademarks of the Eclipse Foundation.
```

```
Copyright
---------
All contributions are the property of the respective authors or of
entities to which copyright has been assigned by the authors (eg. employer).

Declared Project Licenses
-------------------------
This artifacts of this project are made available under the terms of:

  * the Eclipse Public License v2.0
    https://www.eclipse.org/legal/epl-2.0
    SPDX-License-Identifier: EPL-2.0

  or

  * the Apache License, Version 2.0
    https://www.apache.org/licenses/LICENSE-2.0
    SPDX-License-Identifier: Apache-2.0

The following dependencies are EPL.
 * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following dependencies are EPL and ASL2.
 * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.
 * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
 * javax.transaction:javax.transaction-api
 * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to
 the
terms of http://asm.ow2.org/license.html

 * org.ow2.asm:asm-commons
 * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

 * org.apache.taglibs:taglibs-standard-spec
 * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed.  Based on selected classes
 from
following Apache Tomcat jars, all ASL2 licensed.

 * org.mortbay.jasper:apache-jsp
 * org.apache.tomcat:tomcat-jasper
 * org.apache.tomcat:tomcat-juli
 * org.apache.tomcat:tomcat-jsp-api
 * org.apache.tomcat:tomcat-el-api
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
```

```
 * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

 * org.eclipse.jetty.toolchain:jetty-schemas

Cryptography
------------
Content may contain encryption software. The country in which you are
 currently
may have restrictions on the import, possession, and use, and/or re-export
 to
another country, of encryption software. BEFORE using any encryption
 software,
please check the country's laws, regulations and policies concerning the
 import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection.  Copyright 1996 Aki Yoshida,
modified April 2001  by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
for non-commercial or commercial purposes and without fee is
granted provided that the copyright notice appears in all copies.
------------------------------------------------------------------------------------------

joda-time:jar:2.10.5

-- NAME OF DEPENDENCY
joda-time:jar:2.10.5

-- License Type
Apache License 2.0

-- Copyright Notices
--------------------------------------------------------------------------------
- NOTICE file corresponding to section 4d of the Apache License Version 2.0
 -
--------------------------------------------------------------------------------
This product includes software developed by
Joda.org (https://www.joda.org/).

json4s-jackson_2.12:jar:3.6.6
/*
 * Copyright 2006-2010 WorldWide Conferencing, LLC
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/*
* Copyright 2007-2011 WorldWide Conferencing, LLC
*
* Licensed under the Apache License, Version 2.0 (the "License");
```

```
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* Copyright 2009-2011 WorldWide Conferencing, LLC
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
--- ----------------------------------------------------------------------------

json4s-jackson_2.12:jar:3.6.6

-- NAME OF DEPENDENCY
json4s-jackson_2.12:jar:3.6.6

-- License Type
Apache License 2.0

-- Copyright Notices

/*
 * Copyright 2011 WorldWide Conferencing, LLC
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
--- ----------------------------------------------------------------------------

jsr305:jar:3.0.0

-- NAME OF DEPENDENCY
jsr305:jar:3.0.0

-- License
TypeThe JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:
```

```
  http://www.opensource.org/licenses/bsd-license.php

See the JSR-305 home page for more information:

  http://code.google.com/p/jsr-305/

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Copyright :
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

-------------------------------------------------------------------------------------------

kafka-clients:jar:2.4.1

-- NAME OF DEPENDENCY
kafka-clients:jar:2.4.1


-- License Type
Apache License 2.0

-- Copyright Notices
Apache Kafka
Copyright 2021 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This distribution has a binary dependency on jersey, which is available
 under the CDDL
License. The source code of jersey can be found at https://github.com/
jersey/jersey/.

This distribution has a binary test dependency on jqwik, which is available
 under
the Eclipse Public License 2.0. The source code can be found at
https://github.com/jlink/jqwik.
```

```
The streams-scala (streams/streams-scala) module was donated by Lightbend
 and the original code was copyrighted by them:
Copyright (C) 2018 Lightbend Inc. <https://www.lightbend.com>
Copyright (C) 2017-2018 Alexis Seigneurin.

This project contains the following code copied from Apache Hadoop:
clients/src/main/java/org/apache/kafka/common/utils/PureJavaCrc32C.java
Some portions of this file Copyright (c) 2004-2006 Intel Corporation and
 licensed under the BSD license.

This project contains the following code copied from Apache Hive:
streams/src/main/java/org/apache/kafka/streams/state/internals/Murmur3.java

--------------------------------------------------------------------------------

kafka_2.12:jar:2.4.1

-- NAME OF DEPENDENCY
kafka_2.12:jar:2.4.1


-- License Type
Apache License 2.0

-- Copyright Notices
Apache Kafka
Copyright 2021 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This distribution has a binary dependency on jersey, which is available
 under the CDDL
License. The source code of jersey can be found at https://github.com/
jersey/jersey/.

This distribution has a binary test dependency on jqwik, which is available
 under
the Eclipse Public License 2.0. The source code can be found at
https://github.com/jlink/jqwik.

The streams-scala (streams/streams-scala) module was donated by Lightbend
 and the original code was copyrighted by them:
Copyright (C) 2018 Lightbend Inc. <https://www.lightbend.com>
Copyright (C) 2017-2018 Alexis Seigneurin.

This project contains the following code copied from Apache Hadoop:
clients/src/main/java/org/apache/kafka/common/utils/PureJavaCrc32C.java
Some portions of this file Copyright (c) 2004-2006 Intel Corporation and
 licensed under the BSD license.

This project contains the following code copied from Apache Hive:
streams/src/main/java/org/apache/kafka/streams/state/internals/Murmur3.java

--------------------------------------------------------------------------------



libfb303:jar:0.9.3

-- NAME OF DEPENDENCY
org.apache.thrift.libfb303:jar:0.9.3
```

```
-- License Type
Apache License 2.0

-- Copyright Notices
Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).


------------------------------------------------------------------------------------------
libthrift:jar:0.12.0

-- NAME OF DEPENDENCY
libthrift:jar:0.12.0

-- License Type
Apache License 2.0

-- Copyright Notices


----------------------------------------------------
SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

----------------------------------------------------
Portions of the following files are licensed under the MIT License:

  lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

----------------------------------------------------
For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
 components:

#   Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
#   Copying and distribution of this file, with or without
#   modification, are permitted in any medium without royalty provided
#   the copyright notice and this notice are preserved.

----------------------------------------------------
For the lib/nodejs/lib/thrift/json_parse.js:

/*
    json_parse.js
    2015-05-02
    Public Domain.
    NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
(By Douglas Crockford <douglas@crockford.com>)

----------------------------------------------------
For lib/cpp/src/thrift/windows/SocketPair.cpp

/* socketpair.c
```

```
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights
 reserved.
 * This code is Free Software.  It may be copied freely, in original or
 * modified form, subject only to the restrictions that (1) the author is
 * relieved from all responsibilities for any use for any purpose, and (2)
 * this copyright notice must be retained, unchanged, in its entirety.  If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
 */


--------------------------------------------------
For lib/py/compat/win32/stdint.h

// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
 met:
//
//   1. Redistributions of source code must retain the above copyright
 notice,
//      this list of conditions and the following disclaimer.
//
//   2. Redistributions in binary form must reproduce the above copyright
//      notice, this list of conditions and the following disclaimer in the
//      documentation and/or other materials provided with the distribution.
//
//   3. The name of the author may be used to endorse or promote products
//      derived from this software without specific prior written
 permission.
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
///////////////////////////////////////////////////////////////////////////////


--------------------------------------------------
Codegen template in t_html_generator.h

* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and
 @fat.
```

```
----------------------------------------------------
For t_cl_generator.cc

 * Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
 * Copyright (c) 2006- Facebook


Copyright :
Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

----------------------------------------------------------------------------------------------
lz4-java:jar:1.7.1

-- NAME OF DEPENDENCY
lz4-java:jar:1.7.1

-- License Type
Apache License 2.0

-- Copyright Notices

  Copyright 2020 Adrien Grand and the lz4-java contributors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
----------------------------------------------------------------------------------------------

metrics-core:jar:4.1.1

-- NAME OF DEPENDENCY
metrics-core:jar:4.1.1

-- License Type
Apache License 2.0

-- Copyright Notices
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------------------------------------------------------------------------------------------

metrics-graphite:jar:4.1.1
```

```
-- NAME OF DEPENDENCY
metrics-graphite:jar:4.1.1

-- License Type
Apache License 2.0

-- Copyright Notices
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------
metrics-jmx:jar:4.1.1

-- NAME OF DEPENDENCY
metrics-jmx:jar:4.1.1

-- License Type
Apache License 2.0

-- Copyright Notices
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------------------------------------------

metrics-json:jar:4.1.1

-- NAME OF DEPENDENCY
metrics-json:jar:4.1.1

-- License Type
Apache License 2.0

-- Copyright Notices
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------------------------------------------------------------

metrics-jvm:jar:4.1.1

-- NAME OF DEPENDENCY
metrics-jvm:jar:4.1.1

-- License Type
Apache License 2.0

-- Copyright Notices
Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2020 Dropwizard Team

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------------------------------------------------------------
netty-all:jar:4.1.53.Final

-- NAME OF DEPENDENCY
netty-all:jar:4.1.53.Final

-- License Type
Apache License 2.0

-- Copyright Notices

  The Netty Project
                            -----------------

Please visit the Netty web site for more information:

  * https://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.
```

```
Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
  * HOMEPAGE:
    * https://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
```

```
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
```

```
    * license/LICENSE.protobuf.txt (New BSD License)
  * HOMEPAGE:
    * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
  * HOMEPAGE:
    * https://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
  * HOMEPAGE:
    * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling

This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation
 of
```

```
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/twitter/hpack

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:

  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/

This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/


This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper

This product contains the dnsinfo.h header file, that provides a way to
 retrieve the system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
  * HOMEPAGE:
    * https://www.opensource.apple.com/source/configd/configd-453.19/
dnsinfo/dnsinfo.h

--------------------------------------------------------------------------------

log4j:jar:1.2.17-16

-- NAME OF DEPENDENCY
log4j:jar:1.2.17-16

-- License Type
```

```
Apache License 2.0

-- Copyright Notices
Copyright
Apache log4j
Copyright 2010 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

--------------------------------------------------------------------------------------------

oro:jar:2.0.8

-- NAME OF DEPENDENCY
oro:jar:2.0.8

-- License Type
Apache License 2.0

-- Copyright Notices

/*
 *
 * Copyright 2000-2005 The Apache Software Foundation
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
--------------------------------------------------------------------------------------------


-- NAME OF DEPENDENCY
orc-core:jar:1.5.10

-- License Type
Apache License 2.0 APACHE ORC SUBCOMPONENTS:

The Apache ORC project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.

For protobuf:

  Copyright 2008 Google Inc.  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

      * Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
```

```
  in the documentation and/or other materials provided with the
  distribution.
      * Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  Code generated by the Protocol Buffer compiler is owned by the owner
  of the input file used when generating it.  This code is not
  standalone and requires a support library to be linked with it.  This
  support library is itself covered by the above license.

For the site:

  Parts of the site formatting includes software developed by Tom Preston-
Werner
  that are licensed under the MIT License (MIT):

  (c) Copyright [2008-2015] Tom Preston-Werner

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
  SOFTWARE.

For snappy:

  Copyright 2011, Google Inc.
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
```

```
      * Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
      * Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For zlib:

  (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

  If you use the zlib library in a product, we would appreciate *not*
 receiving
  lengthy legal documents to sign.  The sources are provided for free but
 without
  warranty of any kind.  The library has been entirely written by Jean-loup
  Gailly and Mark Adler; it does not include third-party code.

  If you redistribute modified sources, we would appreciate that you include
 in
  the file ChangeLog history information documenting your changes.  Please
 read
  the FAQ for more information on the distribution of modified source
 versions.

For orc.threeten:

  /*
```

```
   * Copyright (c) 2007-present, Stephen Colebourne & Michael Nascimento
 Santos
   *
   * All rights reserved.
   *
   * Redistribution and use in source and binary forms, with or without
   * modification, are permitted provided that the following conditions are
 met:
   *
   *  * Redistributions of source code must retain the above copyright
 notice,
   *    this list of conditions and the following disclaimer.
   *
   *  * Redistributions in binary form must reproduce the above copyright
 notice,
   *    this list of conditions and the following disclaimer in the
 documentation
   *    and/or other materials provided with the distribution.
   *
   *  * Neither the name of JSR-310 nor the names of its contributors
   *    may be used to endorse or promote products derived from this
 software
   *    without specific prior written permission.
   *
   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   * A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR
   * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   * EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
   * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
   * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
   * LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
   * NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
   * SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
   */

-- Copyright Notices

Apache ORC
Copyright 2013 and onwards The Apache Software Foundation.

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This product includes software developed by Hewlett-Packard:
(c) Copyright [2014-2015] Hewlett-Packard Development Company, L.P
-------------------------------------------------------------------------------------------

orc-mapreduce:jar:1.5.10

-- NAME OF DEPENDENCY
orc-mapreduce:jar:1.5.10


-- License Type
Apache License 2.0 APACHE ORC SUBCOMPONENTS:

The Apache ORC project contains subcomponents with separate copyright
notices and license terms. Your use of the source code for the these
subcomponents is subject to the terms and conditions of the following
licenses.
```

```
For protobuf:

  Copyright 2008 Google Inc.  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

      * Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
      * Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  Code generated by the Protocol Buffer compiler is owned by the owner
  of the input file used when generating it.  This code is not
  standalone and requires a support library to be linked with it.  This
  support library is itself covered by the above license.

For the site:

  Parts of the site formatting includes software developed by Tom Preston-
Werner
  that are licensed under the MIT License (MIT):

  (c) Copyright [2008-2015] Tom Preston-Werner

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
 all
  copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
  SOFTWARE.

For snappy:

  Copyright 2011, Google Inc.
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

      * Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
      * Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For zlib:

  (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

  If you use the zlib library in a product, we would appreciate *not*
 receiving
  lengthy legal documents to sign.  The sources are provided for free but
 without
  warranty of any kind.  The library has been entirely written by Jean-loup
  Gailly and Mark Adler; it does not include third-party code.
```

```
  If you redistribute modified sources, we would appreciate that you include
 in
  the file ChangeLog history information documenting your changes.  Please
 read
  the FAQ for more information on the distribution of modified source
 versions.

For orc.threeten:

  /*
   * Copyright (c) 2007-present, Stephen Colebourne & Michael Nascimento
 Santos
   *
   * All rights reserved.
   *
   * Redistribution and use in source and binary forms, with or without
   * modification, are permitted provided that the following conditions are
 met:
   *
   *  * Redistributions of source code must retain the above copyright
 notice,
   *    this list of conditions and the following disclaimer.
   *
   *  * Redistributions in binary form must reproduce the above copyright
 notice,
   *    this list of conditions and the following disclaimer in the
 documentation
   *    and/or other materials provided with the distribution.
   *
   *  * Neither the name of JSR-310 nor the names of its contributors
   *    may be used to endorse or promote products derived from this
 software
   *    without specific prior written permission.
   *
   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   * A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR
   * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
   * EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
   * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
   * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
   * LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
   * NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
   * SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
   */

-- Copyright Notices

Apache ORC
Copyright 2013 and onwards The Apache Software Foundation.

This product includes software developed by The Apache Software
Foundation (http://www.apache.org/).

This product includes software developed by Hewlett-Packard:
(c) Copyright [2014-2015] Hewlett-Packard Development Company, L.P
-----------------------------------------------------------------------------------------------

parquet-avro:jar:1.10.1

-- NAME OF DEPENDENCY
```

```
parquet-avro:jar:1.10.1

-- License Type
Apache License 2.0

-- Copyright Notices
Apache Parquet MR (Incubating)
Copyright 2014-2015 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

--------------------------------------------------------------------------------

This product includes code from Apache Avro, which includes the following in
its NOTICE file:

  Apache Avro
  Copyright 2010-2015 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).


------------------------------------------------------------------------------------------

parquet-column:jar:1.10.1

-- NAME OF DEPENDENCY
parquet-column:jar:1.10.1

-- License Type
Apache License 2.0

-- Copyright Notices
This product depends on fastutil and includes it in this binary artifact.
Fastutil provides type-specific collection implementations.

Copyright: 2002-2014 Sebastiano Vigna
Home page: http://fasutil.di.unimi.it/
License: http://www.apache.org/licenses/LICENSE-2.0.html
--------------------------------------------------------------------------------

This product includes code from Apache Avro, which includes the following in
its NOTICE file:

  Apache Avro
  Copyright 2010-2015 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).


------------------------------------------------------------------------------------------

parquet-hadoop-bundle:jar:1.6.0

-- NAME OF DEPENDENCY
parquet-hadoop-bundle:jar:1.6.0

-- License Type
Apache License 2.0

-- Copyright Notices
```

```
--------------------------------------------------------------------------------

This product depends on Apache Thrift and includes it in this binary
 artifact.

Copyright: 2006-2010 The Apache Software Foundation.
Home page: https://thrift.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

This product depends on SLF4J and includes SLF4J in this binary artifact.
 SLF4J
is a simple logging facade for Java.

Copyright: 2004-2013 QOS.ch.
Home page: http://www.slf4j.org/
License: http://slf4j.org/license.html (MIT license)

The following is the SLF4J license (MIT):

  Copyright (c) 2004-2013 QOS.ch
  All rights reserved.

  Permission is hereby granted, free  of charge, to any person obtaining
  a  copy  of this  software  and  associated  documentation files  (the
  "Software"), to  deal in  the Software without  restriction, including
  without limitation  the rights to  use, copy, modify,  merge, publish,
  distribute,  sublicense, and/or sell  copies of  the Software,  and to
  permit persons to whom the Software  is furnished to do so, subject to
  the following conditions:

  The  above  copyright  notice  and  this permission  notice  shall  be
  included in all copies or substantial portions of the Software.

  THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
  EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
  MERCHANTABILITY,    FITNESS    FOR    A    PARTICULAR    PURPOSE    AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
  LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
  OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
  WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

This project includes code from Daniel Lemire's JavaFastPFOR project in this
binary artifact. The "Lemire" bit packing classes produced by parquet-
generator
are derived from the JavaFastPFOR project.

Copyright: 2013 Daniel Lemire
Home page: http://lemire.me/en/
Project page: https://github.com/lemire/JavaFastPFOR
License: Apache License Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0

--------------------------------------------------------------------------------

This product depends on fastutil and includes it in this binary artifact.
Fastutil provides type-specific collection implementations.

Copyright: 2002-2014 Sebastiano Vigna
Home page: http://fasutil.di.unimi.it/
License: http://www.apache.org/licenses/LICENSE-2.0.html
```

```
--------------------------------------------------------------------------------

This product depends on Jackson and includes it in this binary artifact.
Jackson is a high-performance JSON processor.

Copyright: 2007-2015 Tatu Saloranta and other contributors
Home page: http://jackson.codehaus.org/
License: http://www.apache.org/licenses/LICENSE-2.0.txt
--------------------------------------------------------------------------------

This product includes code from Apache Avro, which includes the following in
its NOTICE file:

  Apache Avro
  Copyright 2010-2015 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).


------------------------------------------------------------------------------------------

parquet-hadoop:jar:1.10.1


-- NAME OF DEPENDENCY
parquet-hadoop:jar:1.10.1

-- License Type
Apache License 2.0

-- Copyright Notices

--------------------------------------------------------------------------------

This product includes code from Twitter's ElephantBird project.

* parquet-hadoop's UnmaterializableRecordCounter.java includes code from
  ElephantBird's LzoRecordReader.java

Copyright: 2012-2014 Twitter
Home page: https://github.com/twitter/elephant-bird
License: http://www.apache.org/licenses/LICENSE-2.0
--------------------------------------------------------------------------------

This product includes code from Apache Avro, which includes the following in
its NOTICE file:

  Apache Avro
  Copyright 2010-2015 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).


------------------------------------------------------------------------------------------

License:

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

--------------------------------------------------------------------------------

This product includes code from Apache Avro.

Copyright: 2014 The Apache Software Foundation.
Home page: https://avro.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

This project includes code from Daniel Lemire's JavaFastPFOR project. The
"Lemire" bit packing source code produced by parquet-generator is derived
 from
the JavaFastPFOR project.

Copyright: 2013 Daniel Lemire
Home page: http://lemire.me/en/
```

```
Project page: https://github.com/lemire/JavaFastPFOR
License: Apache License Version 2.0 http://www.apache.org/licenses/
LICENSE-2.0

--------------------------------------------------------------------------------

This product includes code from Apache Spark.

* dev/merge_parquet_pr.py is based on Spark's dev/merge_spark_pr.py

Copyright: 2014 The Apache Software Foundation.
Home page: https://spark.apache.org/
License: http://www.apache.org/licenses/LICENSE-2.0

--------------------------------------------------------------------------------

This product includes code from Twitter's ElephantBird project.

* parquet-hadoop's UnmaterializableRecordCounter.java includes code from
  ElephantBird's LzoRecordReader.java

Copyright: 2012-2014 Twitter
Home page: https://github.com/twitter/elephant-bird
License: http://www.apache.org/licenses/LICENSE-2.0

Copyright :


Apache Parquet MR (Incubating)
Copyright 2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

--------------------------------------------------------------------------------

This product includes parquet-tools, initially developed at ARRIS, Inc. with
the following copyright notice:

  Copyright 2013 ARRIS, Inc.

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

--------------------------------------------------------------------------------

This product includes parquet-protobuf, initially developed by Lukas
 Nalezenc
with the following copyright notice:

  Copyright 2013 Lukas Nalezenec.

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at
```

```
  http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

--------------------------------------------------------------------------------

This product includes code from Apache Avro, which includes the following in
its NOTICE file:

  Apache Avro
  Copyright 2010-2015 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

--------------------------------------------------------------------------------

This project includes code from Kite, developed at Cloudera, Inc. with
the following copyright notice:

| Copyright 2013 Cloudera Inc.
|
| Licensed under the Apache License, Version 2.0 (the "License");
| you may not use this file except in compliance with the License.
| You may obtain a copy of the License at
|
|   http://www.apache.org/licenses/LICENSE-2.0
|
| Unless required by applicable law or agreed to in writing, software
| distributed under the License is distributed on an "AS IS" BASIS,
| WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
| See the License for the specific language governing permissions and
| limitations under the License.

--------------------------------------------------------------------------------

This project includes code from Netflix, Inc. with the following copyright
notice:

| Copyright 2016 Netflix, Inc.
|
| Licensed under the Apache License, Version 2.0 (the "License");
| you may not use this file except in compliance with the License.
| You may obtain a copy of the License at
|
|   http://www.apache.org/licenses/LICENSE-2.0
|
| Unless required by applicable law or agreed to in writing, software
| distributed under the License is distributed on an "AS IS" BASIS,
| WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
| See the License for the specific language governing permissions and
| limitations under the License.
--- ---------------------------------------------------------------------------

scala-compiler:jar:2.12.10

-- NAME OF DEPENDENCY
scala-compiler:jar:2.12.10
```

```
-- License Type
Apache License 2.0
-- Copyright Notices
Scala
Copyright (c) 2002-2021 EPFL
Copyright (c) 2011-2021 Lightbend, Inc.

Scala includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------------------------

scala-library:jar:2.12.10

-- NAME OF DEPENDENCY
scala-library:jar:2.12.10

-- License Type
Apache License 2.0

-- Copyright Notices
Scala
Copyright (c) 2002-2021 EPFL
Copyright (c) 2011-2021 Lightbend, Inc.

Scala includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------------------------

scala-parser-combinators_2.12:jar:1.1.2

-- NAME OF DEPENDENCY
scala-parser-combinators_2.12:jar:1.1.2

-- License Type
Apache License 2.0

-- Copyright Notices
Scala
Copyright (c) 2002-2021 EPFL
Copyright (c) 2011-2021 Lightbend, Inc.

Scala includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
```

```
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------------------------

scala-reflect:jar:2.12.10

-- NAME OF DEPENDENCY
scala-reflect:jar:2.12.10

-- License Type
Apache License 2.0

-- Copyright Notices
Scala
Copyright (c) 2002-2021 EPFL
Copyright (c) 2011-2021 Lightbend, Inc.

Scala includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------------------------

scala-xml_2.12:jar:1.2.0

-- NAME OF DEPENDENCY
scala-xml_2.12:jar:1.2.0


-- License Type
Apache License 2.0

-- Copyright Notices
scala-xml
Copyright (c) 2002-2021 EPFL
Copyright (c) 2011-2021 Lightbend, Inc.

scala-xml includes software developed at
LAMP/EPFL (https://lamp.epfl.ch/) and
Lightbend, Inc. (https://www.lightbend.com/).

Licensed under the Apache License, Version 2.0 (the "License").
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
------------------------------------------------------------------------------------------


snappy-java:jar:1.1.8

-- NAME OF DEPENDENCY
snappy-java:jar:1.1.8

-- License Type
Apache License 2.0
```

```
-- Copyright Notices
This product includes software developed by Google
 Snappy: http://code.google.com/p/snappy/ (New BSD License)

This product includes software developed by Apache
 PureJavaCrc32C from apache-hadoop-common http://hadoop.apache.org/
 (Apache 2.0 license)

This library containd statically linked libstdc++. This inclusion is allowed
 by
"GCC RUntime Library Exception"
http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html

-- Contributors --
  * Tatu Saloranta
    * Providing benchmark suite
  * Alec Wysoker
    * Performance and memory usage improvement
--------------------------------------------------------------------------------

stream:jar:2.9.6

-- NAME OF DEPENDENCY
stream:jar:2.9.6

-- License Type
Apache License 2.0

-- Copyright Notices
Copyright 2016 AddThis

This product includes software developed by AddThis.

This product also includes code adapted from:

Apache Solr (http://lucene.apache.org/solr/)
Copyright 2014 The Apache Software Foundation

Apache Mahout (http://mahout.apache.org/)
Copyright 2014 The Apache Software Foundation
--------------------------------------------------------------------------------


univocity-parsers:jar:2.9.0

-- NAME OF DEPENDENCY
stream:jar:2.9.6

-- License Type
Apache License 2.0

-- Copyright Notices
/
*******************************************************************************
 * Copyright 2020 Univocity Software Pty Ltd
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
```

```
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
-----------------------------------------------------------------------------------------


xbean-asm7-shaded:jar:4.15

-- NAME OF DEPENDENCY
xbean-asm7-shaded:jar:4.15

-- License Type
Apache License 2.0

-- Copyright Notices
Apache XBean :: ASM shaded (repackaged)
Copyright 2005-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

-----------------------------------------------------------------------------------------

xml-apis:jar:1.4.01
-- NAME OF DEPENDENCY
xml-apis:jar:1.4.01

-- License Type
Apache License 2.0

-- Copyright Notices
Apache XML Commons XML APIs
   Copyright 1999-2009 The Apache Software Foundation.

   This product includes software developed at
   The Apache Software Foundation (http://www.apache.org/).

   Portions of this software were originally based on the following:
     - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
     - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
     - software copyright (c) 2000 World Wide Web Consortium, http://
www.w3.org

-----------------------------------------------------------------------------------------

zookeeper:jar:3.4.14

-- NAME OF DEPENDENCY
zookeeper:jar:3.4.14

-- License Type
Apache License 2.0

-- Copyright Notices
Apache ZooKeeper
Copyright 2009-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

-----------------------------------------------------------------------------------------

h2:jar:1.4.195
```

```
License : MPL 2.0
Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.

1.12. “Secondary License”
```

```
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

2.5. Representation
```

```
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
```

```
4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party's negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
```

```
8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.

Copyright
Copyright 2004-2014 H2 Group. Multiple-Licensed under the MPL 2.0,
and the EPL 1.0 (http://h2database.com/html/license.html).
-----------------------------------------------------------------------------------------------
```

```
jersey-client:jar:2.30

-- NAME OF DEPENDENCY
jersey-client:jar:2.30

-- License Type
Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
    PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
    OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

"Contributor" means any person or entity that Distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.
```

```
"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
  patent license is required to allow Recipient to Distribute the
  Program, it is Recipient's responsibility to acquire that license
  before distributing the Program.

  d) Each Contributor represents that to its knowledge it has
  sufficient copyright rights in its Contribution, if any, to grant
  the copyright license set forth in this Agreement.

  e) Notwithstanding the terms of any Secondary License, no
  Contributor makes additional grants to any Recipient (other than
  those set forth in this Agreement) as a result of such Recipient's
  receipt of the Program under the terms of a Secondary License
  (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

  a) the Program must also be made available as Source Code, in
  accordance with section 3.2, and the Contributor must accompany
  the Program with a statement that the Source Code for the Program
  is available under this Agreement, and informs Recipients how to
  obtain it in a reasonable manner on or through a medium customarily
  used for software exchange; and

  b) the Contributor may Distribute the Program under a license
  different than this Agreement, provided that such license:
     i) effectively disclaims on behalf of all other Contributors all
```

```
     warranties and conditions, express and implied, including
     warranties or conditions of title and non-infringement, and
     implied warranties or conditions of merchantability and fitness
     for a particular purpose;

     ii) effectively excludes on behalf of all other Contributors all
     liability for damages, including direct, indirect, special,
     incidental and consequential damages, such as lost profits;

     iii) does not attempt to limit or alter the recipients' rights
     in the Source Code under section 3.2; and

     iv) requires any subsequent distribution of the Program by any
     party to be under a license that satisfies the requirements
     of this section 3.

3.2 When the Program is Distributed as Source Code:

  a) it must be made available under this Agreement, or if the
  Program (i) is combined with other material in a separate file or
  files made available under a Secondary License, and (ii) the initial
  Contributor attached to the Source Code the notice described in
  Exhibit A of this Agreement, then the Program may be made available
  under the terms of such Secondary Licenses, and

  b) a copy of this Agreement must be included with each copy of
  the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
```

```
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
```

```
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

  Simply including a copy of this Agreement, including this Exhibit A
  is not sufficient to license the Source Code under Secondary Licenses.

  If it is not possible or desirable to put the notice in a particular
  file, then You may include the notice in a location (such as a LICENSE
  file in a relevant directory) where a recipient would be likely to
  look for such a notice.

  You may add additional accurate notices of copyright ownership.

-- Copyright Notices
Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License MIT (http://www.opensource.org/licenses/mit-license.php)
Project: http://angularjs.org
```

```
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Bootstrap v3.3.7

License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0
Copyright (C) 2009 The Guava Authors
javax.inject Version: 1

License: Apache License, 2.0
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.25.0-GA

License: Apache License, 2.0
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.9.9

License: Apache License, 2.0
Project: https://github.com/FasterXML/jackson-jaxrs-providers
Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless
 otherwise indicated.
jQuery v1.12.4

License: jquery.org/license
Project: jquery.org
Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3

License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php &
 http://www.gnu.org/licenses/gpl.html)
Project: http://www.pasella.it/projects/jQuery/barcode
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
JSR-166 Extension - JEP 266

License: CC0
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166 Expert
 Group and released to the public domain, as explained at http://
creativecommons.org/publicdomain/zero/1.0/
KineticJS, v4.7.1

License: MIT license (http://www.opensource.org/licenses/mit-license.php)
Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
Copyright: Eric Rowell
org.objectweb.asm Version 7.2

License: Modified BSD (http://asm.objectweb.org/license.html)
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
```

```
org.osgi.core version 6.0.0

License: Apache License, 2.0
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents

License: W3C License
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/

-------------------------------------------------------------------------------------------

jersey-common:jar:2.30

-- NAME OF DEPENDENCY
jersey-common:jar:2.30

-- License Type
Eclipse Public License - v 2.0

-- Copyright Notices
Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License MIT (http://www.opensource.org/licenses/mit-license.php)
Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
```

```
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Bootstrap v3.3.7

License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0
Copyright (C) 2009 The Guava Authors
javax.inject Version: 1

License: Apache License, 2.0
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.25.0-GA

License: Apache License, 2.0
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.9.9

License: Apache License, 2.0
Project: https://github.com/FasterXML/jackson-jaxrs-providers
Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless
 otherwise indicated.
jQuery v1.12.4

License: jquery.org/license
Project: jquery.org
Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3

License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php &
 http://www.gnu.org/licenses/gpl.html)
Project: http://www.pasella.it/projects/jQuery/barcode
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
JSR-166 Extension - JEP 266

License: CC0
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166 Expert
 Group and released to the public domain, as explained at http://
creativecommons.org/publicdomain/zero/1.0/
KineticJS, v4.7.1

License: MIT license (http://www.opensource.org/licenses/mit-license.php)
Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
Copyright: Eric Rowell
org.objectweb.asm Version 7.2

License: Modified BSD (http://asm.objectweb.org/license.html)
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
org.osgi.core version 6.0.0

License: Apache License, 2.0
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
```

```
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents

License: W3C License
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/

-------------------------------------------------------------------------------------------

jersey-container-servlet-core:jar:2.30

-- NAME OF DEPENDENCY
jersey-container-servlet-core:jar:2.30

-- License Type
Eclipse Public License - v 2.0

-- Copyright Notices
Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License MIT (http://www.opensource.org/licenses/mit-license.php)
Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2
```

```
License: Apache License, 2.0
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Bootstrap v3.3.7

License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0
Copyright (C) 2009 The Guava Authors
javax.inject Version: 1

License: Apache License, 2.0
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.25.0-GA

License: Apache License, 2.0
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.9.9

License: Apache License, 2.0
Project: https://github.com/FasterXML/jackson-jaxrs-providers
Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless
 otherwise indicated.
jQuery v1.12.4

License: jquery.org/license
Project: jquery.org
Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3

License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php &
 http://www.gnu.org/licenses/gpl.html)
Project: http://www.pasella.it/projects/jQuery/barcode
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
JSR-166 Extension - JEP 266

License: CC0
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166 Expert
 Group and released to the public domain, as explained at http://
creativecommons.org/publicdomain/zero/1.0/
KineticJS, v4.7.1

License: MIT license (http://www.opensource.org/licenses/mit-license.php)
Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
Copyright: Eric Rowell
org.objectweb.asm Version 7.2

License: Modified BSD (http://asm.objectweb.org/license.html)
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
org.osgi.core version 6.0.0

License: Apache License, 2.0
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
```

```
Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents

License: W3C License
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/

-----------------------------------------------------------------------------------------------

jersey-container-servlet:jar:2.30

-- NAME OF DEPENDENCY
jersey-container-servlet:jar:2.30

-- License Type
Eclipse Public License - v 2.0


-- Copyright Notices
Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License MIT (http://www.opensource.org/licenses/mit-license.php)
Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0
Project: http://beanvalidation.org/1.1/
```

```
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Bootstrap v3.3.7

License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0
Copyright (C) 2009 The Guava Authors
javax.inject Version: 1

License: Apache License, 2.0
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.25.0-GA

License: Apache License, 2.0
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.9.9

License: Apache License, 2.0
Project: https://github.com/FasterXML/jackson-jaxrs-providers
Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless
 otherwise indicated.
jQuery v1.12.4

License: jquery.org/license
Project: jquery.org
Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3

License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php &
 http://www.gnu.org/licenses/gpl.html)
Project: http://www.pasella.it/projects/jQuery/barcode
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
JSR-166 Extension - JEP 266

License: CC0
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166 Expert
 Group and released to the public domain, as explained at http://
creativecommons.org/publicdomain/zero/1.0/
KineticJS, v4.7.1

License: MIT license (http://www.opensource.org/licenses/mit-license.php)
Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
Copyright: Eric Rowell
org.objectweb.asm Version 7.2

License: Modified BSD (http://asm.objectweb.org/license.html)
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
org.osgi.core version 6.0.0

License: Apache License, 2.0
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents
```

```
License: W3C License
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/

-----------------------------------------------------------------------------------------------

jersey-hk2:jar:2.30

-- NAME OF DEPENDENCY
jersey-hk2:jar:2.30

-- License Type
Eclipse Public License - v 2.0


-- Copyright Notices
Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License MIT (http://www.opensource.org/licenses/mit-license.php)
Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
```

```
Bootstrap v3.3.7

License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0
Copyright (C) 2009 The Guava Authors
javax.inject Version: 1

License: Apache License, 2.0
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.25.0-GA

License: Apache License, 2.0
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.9.9

License: Apache License, 2.0
Project: https://github.com/FasterXML/jackson-jaxrs-providers
Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless
 otherwise indicated.
jQuery v1.12.4

License: jquery.org/license
Project: jquery.org
Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3

License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php &
 http://www.gnu.org/licenses/gpl.html)
Project: http://www.pasella.it/projects/jQuery/barcode
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
JSR-166 Extension - JEP 266

License: CC0
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166 Expert
 Group and released to the public domain, as explained at http://
creativecommons.org/publicdomain/zero/1.0/
KineticJS, v4.7.1

License: MIT license (http://www.opensource.org/licenses/mit-license.php)
Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
Copyright: Eric Rowell
org.objectweb.asm Version 7.2

License: Modified BSD (http://asm.objectweb.org/license.html)
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
org.osgi.core version 6.0.0

License: Apache License, 2.0
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents

License: W3C License
```

```
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/

-----------------------------------------------------------------------------------------------

jersey-server:jar:2.30
-- NAME OF DEPENDENCY
jersey-server:jar:2.30

-- License Type
Eclipse Public License - v 2.0


-- Copyright Notices
Notice for Jersey
This content is produced and maintained by the Eclipse Jersey project.

Project home: https://projects.eclipse.org/projects/ee4j.jersey
Trademarks
Eclipse Jersey is a trademark of the Eclipse Foundation.

Copyright
All content is the property of the respective authors or their employers.
 For more information regarding authorship of content, please consult the
 listed source code repository logs.

Declared Project Licenses
This program and the accompanying materials are made available under the
 terms of the Eclipse Public License v. 2.0 which is available at http://
www.eclipse.org/legal/epl-2.0. This Source Code may also be made available
 under the following Secondary Licenses when the conditions for such
 availability set forth in the Eclipse Public License v. 2.0 are satisfied:
 GNU General Public License, version 2 with the GNU Classpath Exception
 which is available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code
The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/jersey
Third-party Content
Angular JS, v1.6.6

License MIT (http://www.opensource.org/licenses/mit-license.php)
Project: http://angularjs.org
Coyright: (c) 2010-2017 Google, Inc.
aopalliance Version 1

License: all the source code provided by AOP Alliance is Public Domain.
Project: http://aopalliance.sourceforge.net
Copyright: Material in the public domain is not protected by copyright
Bean Validation API 2.0.2

License: Apache License, 2.0
Project: http://beanvalidation.org/1.1/
Copyright: 2009, Red Hat, Inc. and/or its affiliates, and individual
 contributors
by the @authors tag.
Bootstrap v3.3.7

License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
```

```
Project: http://getbootstrap.com
Copyright: 2011-2016 Twitter, Inc
Google Guava Version 18.0

License: Apache License, 2.0
Copyright (C) 2009 The Guava Authors
javax.inject Version: 1

License: Apache License, 2.0
Copyright (C) 2009 The JSR-330 Expert Group
Javassist Version 3.25.0-GA

License: Apache License, 2.0
Project: http://www.javassist.org/
Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Jackson JAX-RS Providers Version 2.9.9

License: Apache License, 2.0
Project: https://github.com/FasterXML/jackson-jaxrs-providers
Copyright: (c) 2009-2011 FasterXML, LLC. All rights reserved unless
 otherwise indicated.
jQuery v1.12.4

License: jquery.org/license
Project: jquery.org
Copyright: (c) jQuery Foundation
jQuery Barcode plugin 0.3

License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php &
 http://www.gnu.org/licenses/gpl.html)
Project: http://www.pasella.it/projects/jQuery/barcode
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com
JSR-166 Extension - JEP 266

License: CC0
No copyright
Written by Doug Lea with assistance from members of JCP JSR-166 Expert
 Group and released to the public domain, as explained at http://
creativecommons.org/publicdomain/zero/1.0/
KineticJS, v4.7.1

License: MIT license (http://www.opensource.org/licenses/mit-license.php)
Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
Copyright: Eric Rowell
org.objectweb.asm Version 7.2

License: Modified BSD (http://asm.objectweb.org/license.html)
Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.
org.osgi.core version 6.0.0

License: Apache License, 2.0
Copyright (c) OSGi Alliance (2005, 2008). All Rights Reserved.
org.glassfish.jersey.server.internal.monitoring.core

License: Apache License, 2.0
Copyright (c) 2015-2018 Oracle and/or its affiliates. All rights reserved.
Copyright 2010-2013 Coda Hale and Yammer, Inc.
W3.org documents

License: W3C License
Copyright: Copyright (c) 1994-2001 World Wide Web Consortium, (Massachusetts
 Institute of Technology, Institut National de Recherche en Informatique et
 en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/
```

```
--------------------------------------------------------------------------------------------------


scopt_2.12:jar:3.7.1

-- NAME OF DEPENDENCY
scopt_2.12:jar:3.7.1

-- License Type
This project is licensed under the MIT license.

Copyright (c) scopt contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------------------------

slf4j-api:jar:1.7.30

-- NAME OF DEPENDENCY
slf4j-api:jar:1.7.30

-- License Type
This project is licensed under the MIT license.

Copyright (c) scopt contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------------------------
```

```
slf4j-log4j12:jar:1.7.30

-- NAME OF DEPENDENCY
slf4j-log4j12:jar:1.7.30

-- License Type
This project is licensed under the MIT license.

Copyright (c) scopt contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


pyrolite:jar:4.30

-- NAME OF DEPENDENCY
pyrolite:jar:4.30

-- License Type
This project is licensed under the MIT license.

Copyright (c) scopt contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------


jul-to-slf4j:jar:1.7.30
```

```
-- NAME OF DEPENDENCY
jul-to-slf4j:jar:1.7.30

-- License Type
This project is licensed under the MIT license.

Copyright (c) scopt contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------------


jopt-simple:jar:3.2

-- NAME OF DEPENDENCY
jopt-simple:jar:3.2

-- License Type
This project is licensed under the MIT license.

Copyright (c) scopt contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------------------

antlr4-runtime:jar:4.7.1
-- NAME OF DEPENDENCY
antlr4-runtime:jar:4.7.1
```

```
-- License Type
[The "BSD 3-clause license"]
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holder nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----

MIT License for codepointat.js from https://git.io/codepointat
MIT License for fromcodepoint.js from https://git.io/vDW1m

Copyright Mathias Bynens <https://mathiasbynens.be/>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------


arpack_combined_all:jar:0.1

-- NAME OF DEPENDENCY
arpack_combined_all:jar:0.1

-- License Type
```

Copyright © 2021 The University of Tennessee. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
· Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
· Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer listed in this license
 in the documentation and/or other materials provided with the distribution.
· Neither the name of the copyright holders nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

This software is provided by the copyright holders and contributors "as is"
 and any express or implied warranties, including, but not limited to, the
 implied warranties of merchantability and fitness for a particular purpose
 are disclaimed. in no event shall the copyright owner or contributors
 be liable for any direct, indirect, incidental, special, exemplary, or
 consequential damages (including, but not limited to, procurement of
 substitute goods or services; loss of use, data, or profits; or business
 interruption) however caused and on any theory of liability, whether in
 contract, strict liability, or tort (including negligence or otherwise)
 arising in any way out of the use of this software, even if advised of the
 possibility of such damage.
---

classutil_2.12:jar:1.5.1
-- NAME OF DEPENDENCY
classutil_2.12:jar:1.5.1

-- License Type
Apache License 2.0

-- Copyright Notices

The ClassUtil Library is copyright © 2010-2019 Brian M. Clapper;

---

paranamer:jar:2.8

-- NAME OF DEPENDENCY
paranamer:jar:2.8

-- License Type

[ParaNamer used to be 'Pubic Domain', but since it includes a small piece
 of ASM it is now the same license as that: BSD]

Copyright (c) 2006 Paul Hammant & ThoughtWorks Inc
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

```
 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------------------------------------

zstd-jni:jar:1.4.4-3

-- NAME OF DEPENDENCY
zstd-jni:jar:1.4.4-3

-- License Type

Zstd-jni: JNI bindings to Zstd Library

Copyright (c) 2015-present, Luben Karavelov/ All rights reserved.

BSD License

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this
  list of conditions and the following disclaimer in the documentation and/
or
  other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 -------------------------------------------------------------------------------------------


leveldbjni-all:jar:1.8

-- NAME OF DEPENDENCY
leveldbjni-all:jar:1.8
```

```
-- License Type

Copyright (c) 2011 FuseSource Corp. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of FuseSource Corp. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------------------------------------------------------


pmml-model:jar:1.4.8

-- NAME OF DEPENDENCY
pmml-model:jar:1.4.8

-- License Type

Copyright (c) 2009, University of Tartu
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
```

```
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
 ---------------------------------------------------------------------------------------------


protobuf-java:jar:2.5.0

-- NAME OF DEPENDENCY
protobuf-java:jar:2.5.0

-- License Type

Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
 ---------------------------------------------------------------------------------------------


py4j:jar:0.10.9

-- NAME OF DEPENDENCY
py4j:jar:0.10.9

-- License Type

Copyright (c) 2009-2018, Barthelemy Dagenais and individual contributors.
 All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,
 this
```

```
  list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

- The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 ------------------------------------------------------------------------------------------


jodd-core:jar:3.5.2

-- NAME OF DEPENDENCY
jodd-core:jar:3.5.2

-- License Type

Copyright (c) 2003-2014, Jodd Team
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

Neither the name of the Jodd team nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
 ------------------------------------------------------------------------------------------
```

```
janino:jar:3.0.16

-- NAME OF DEPENDENCY
janino:jar:3.0.16

-- License Type

Janino - An embedded Java[TM] compiler

Copyright (c) 2001-2016, Arno Unkrig
Copyright (c) 2015-2016  TIBCO Software Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

   1. Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
   2. Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials
      provided with the distribution.
   3. Neither the name of JANINO nor the names of its contributors
      may be used to endorse or promote products derived from this
      software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 ---------------------------------------------------------------------------------------------

core:jar:1.1.2
-- NAME OF DEPENDENCY
core:jar:1.1.2

-- License Type

Copyright (c) 2013 Samuel Halliday
Copyright (c) 1992-2011 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2011 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2011 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-----------------------------------------------------------------------------------------
```

Provider: The Apache Software Foundation / Component(s): Tika 1.24.1

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=============================================
TIKA-CORE references this additional 4th party dependency
=============================================

BNDLIB 1.50.0
-----------
- no copyright notice found on homepage, but source code search revealed:
Copyright (c) aQute (2000, 2014). All Rights Reserved.

Homepage URL: http://bnd.bndtools.org/
released under Apache 2.0 license.

==================================================================================
APACHE TIKA SUBCOMPONENTS
```

```
==================================================================================

TIKA-CORE
------------------

NOTICE
---------
Apache Tika core
Copyright 2007-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

APACHE TIKA SUBCOMPONENTS ( tika-core-1.24.1.jar\META-INF\LICENSE )

Apache Tika includes a number of subcomponents with separate copyright
 notices
and license terms. Your use of these subcomponents is subject to the terms
 and
conditions of the following licenses.

MIME type information from file-4.26.tar.gz (http://www.darwinsys.com/file/)

    Copyright (c) Ian F. Darwin 1986, 1987, 1989, 1990, 1991, 1992, 1994,
 1995.
    Software written by Ian F. Darwin and others;
    maintained 1994- Christos Zoulas.

    This software is not subject to any export provision of the United
 States
    Department of Commerce, and may be exported to any country or planet.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice immediately at the beginning of the file, without
 modification,
       this list of conditions, and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 FOR
    ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.


IPTC Photo Metadata descriptions are taken from the IPTC Photo Metadata
Standard, July 2010, Copyright 2010 International Press Telecommunications
Council.
```

1. The Specifications and Materials are licensed for use only on the condition that you agree to be bound by the terms of this license. Subject to this and other licensing requirements contained herein, you may, on a non-exclusive basis, use the Specifications and Materials.
2. The IPTC openly provides the Specifications and Materials for voluntary use by individuals, partnerships, companies, corporations, organizations and any other entity for use at the entity's own risk. This disclaimer, license and release is intended to apply to the IPTC, its officers, directors, agents, representatives, members, contributors, affiliates, contractors, or co-venturers acting jointly or severally.
3. The Document and translations thereof may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published and distributed, in whole or in part, without restriction of any kind, provided that the copyright and license notices and references to the IPTC appearing in the Document and the terms of this Specifications License Agreement are included on all such copies and derivative works. Further, upon the receipt of written permission from the IPTC, the Document may be modified for the purpose of developing applications that use IPTC Specifications or as required to translate the Document into languages other than English.
4. Any use, duplication, distribution, or exploitation of the Document and Specifications and Materials in any manner is at your own risk.
5. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE REGARDING THE ACCURACY, ADEQUACY, COMPLETENESS, LEGALITY, RELIABILITY OR USEFULNESS OF ANY INFORMATION CONTAINED IN THE DOCUMENT OR IN ANY SPECIFICATION OR OTHER PRODUCT OR SERVICE PRODUCED OR SPONSORED BY THE IPTC. THE DOCUMENT AND THE INFORMATION CONTAINED HEREIN AND INCLUDED IN ANY SPECIFICATION OR OTHER PRODUCT OR SERVICE OF THE IPTC IS PROVIDED ON AN "AS IS" BASIS. THE IPTC DISCLAIMS ALL WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY ACTUAL OR ASSERTED WARRANTY OF NON-INFRINGEMENT OF PROPRIETARY RIGHTS, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. NEITHER THE IPTC NOR ITS CONTRIBUTORS SHALL BE HELD LIABLE FOR ANY IMPROPER OR INCORRECT USE OF INFORMATION. NEITHER THE IPTC NOR ITS CONTRIBUTORS ASSUME ANY RESPONSIBILITY FOR ANYONE'S USE OF INFORMATION PROVIDED BY THE IPTC. IN NO EVENT SHALL THE IPTC OR ITS CONTRIBUTORS BE LIABLE TO ANYONE FOR DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO, COMPENSATORY DAMAGES, LOST PROFITS, LOST DATA OR ANY FORM OF SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES OF ANY KIND WHETHER BASED ON BREACH OF CONTRACT OR WARRANTY, TORT, PRODUCT LIABILITY OR OTHERWISE.
6. The IPTC takes no position regarding the validity or scope of any Intellectual Property or other rights that might be claimed to pertain to the implementation or use of the technology described in the Document or the extent to which any license under such rights might or might not be available. The IPTC does not represent that it has made any effort to identify any such rights. Copies of claims of rights made available for publication, assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of the Specifications and Materials, can be obtained from the Managing Director of the IPTC.
7. By using the Specifications and Materials including the Document in any manner or for any purpose, you release the IPTC from all liabilities, claims, causes of action, allegations, losses, injuries, damages, or detriments of any nature arising from or relating to the use of the Specifications, Materials or any portion thereof. You further agree not to file a lawsuit, make a claim, or take any other formal or informal legal action against the IPTC, resulting from your acquisition, use, duplication, distribution, or exploitation of the Specifications, Materials or any portion thereof. Finally, you hereby agree that the IPTC is not liable for any direct, indirect, special or consequential damages arising from or relating to your acquisition, use, duplication, distribution, or exploitation of the Specifications, Materials or any portion thereof.
8. Specifications and Materials may be downloaded or copied provided that ALL copies retain the ownership, copyright and license notices.

```
 9. Materials may not be edited, modified, or presented in a context that
creates a misleading or false impression or statement as to the positions,
actions, or statements of the IPTC.
 10. The name and trademarks of the IPTC may not be used in advertising,
publicity, or in relation to products or services and their names without
the specific, written prior permission of the IPTC. Any permitted use of
the trademarks of the IPTC, whether registered or not, shall be accompanied
by an appropriate mark and attribution, as agreed with the IPTC.
 11. Specifications may be extended by both members and non-members to
provide additional functionality (Extension Specifications) provided
that there is a clear recognition of the IPTC IP and its ownership in
the Extension Specifications and the related documentation and provided
that the extensions are clearly identified and provided that a perpetual
license is granted by the creator of the Extension Specifications for other
members and non-members to use the Extension Specifications and to continue
extensions of the Extension Specifications. The IPTC does not waive any
of its rights in the Specifications and Materials in this context. The
Extension Specifications may be considered the intellectual property of
their creator. The IPTC expressly disclaims any responsibility for damage
caused by an extension to the Specifications.
 12. Specifications and Materials may be included in derivative work of
both members and non-members provided that there is a clear recognition
of the IPTC IP and its ownership in the derivative work and its
related documentation. The IPTC does not waive any of its rights in the
Specifications and Materials in this context. Derivative work in its
entirety may be considered the intellectual property of the creator of the
work .The IPTC expressly disclaims any responsibility for damage caused
when its IP is used in a derivative context.
 13. This Specifications License Agreement is perpetual subject to your
conformance to the terms of this Agreement. The IPTC may terminate this
Specifications License Agreement immediately upon your breach of this
Agreement and, upon such termination you will cease all use, duplication,
distribution, and/or exploitation in any manner of the Specifications and
Materials.
 14. This Specifications License Agreement reflects the entire agreement of
the parties regarding the subject matter hereof and supersedes all prior
agreements or representations regarding such matters, whether written or
oral. To the extent any portion or provision of this Specifications License
Agreement is found to be illegal or unenforceable, then the remaining
provisions of this Specifications License Agreement will remain in full
force and effect and the illegal or unenforceable provision will be
construed to give it such effect as it may properly have that is consistent
with the intentions of the parties.
 15. This Specifications License Agreement may only be modified in writing
signed by an authorized representative of the IPTC.
 16. This Specifications License Agreement is governed by the law of United
Kingdom, as such law is applied to contracts made and fully performed
in the United Kingdom. Any disputes arising from or relating to this
Specifications License Agreement will be resolved in the courts of the
United Kingdom. You consent to the jurisdiction of such courts over you and
covenant not to assert before such courts any objection to proceeding in
such forums.

TIKA-PARSERS
------------------

NOTICE
----------
Apache Tika parsers
Copyright 2007-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
```

```
APACHE TIKA SUBCOMPONENTS (tika-parsers-1.24.1.jar\META-INF\LICENSE)

Apache Tika includes a number of subcomponents with separate copyright
 notices
and license terms. Your use of these subcomponents is subject to the terms
 and
conditions of the following licenses.

Charset detection code from ICU4J (http://site.icu-project.org/)

    Copyright (c) 1995-2009 International Business Machines Corporation
    and others

    All rights reserved.

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, and/or sell copies of the Software, and to permit persons
    to whom the Software is furnished to do so, provided that the above
    copyright notice(s) and this permission notice appear in all copies
    of the Software and that both the above copyright notice(s) and this
    permission notice appear in supporting documentation.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
    OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY
 RIGHTS.
    IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
 NOTICE
    BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
 DAMAGES,
    OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
    WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
    ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
    SOFTWARE.

    Except as contained in this notice, the name of a copyright holder shall
    not be used in advertising or otherwise to promote the sale, use or
 other
    dealings in this Software without prior written authorization of the
    copyright holder.


JUnRAR (https://github.com/edmund-wagner/junrar/)

      JUnRAR is based on the UnRAR tool, and covered by the same license
      It was formerly available from http://java-unrar.svn.sourceforge.net/

 ******    *****   ******   UnRAR - free utility for RAR archives
 **   **  **   **  **   **  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
 ******   *******  ******    License for use and distribution of
 **   **  **   **  **   **   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
 **   **  **   **  **   **         FREE portable version
                                   ~~~~~~~~~~~~~~~~~~~~~

      The source code of UnRAR utility is freeware. This means:

   1. All copyrights to RAR and the utility UnRAR are exclusively
      owned by the author - Alexander Roshal.

   2. The UnRAR sources may be used in any software to handle RAR
```

```
      archives without limitations free of charge, but cannot be used
      to re-create the RAR compression algorithm, which is proprietary.
      Distribution of modified UnRAR sources in separate form or as a
      part of other software is permitted, provided that it is clearly
      stated in the documentation and source comments that the code may
      not be used to develop a RAR (WinRAR) compatible archiver.

   3. The UnRAR utility may be freely distributed. It is allowed
      to distribute UnRAR inside of other software packages.

   4. THE RAR ARCHIVER AND THE UnRAR UTILITY ARE DISTRIBUTED "AS IS".
      NO WARRANTY OF ANY KIND IS EXPRESSED OR IMPLIED.  YOU USE AT
      YOUR OWN RISK. THE AUTHOR WILL NOT BE LIABLE FOR DATA LOSS,
      DAMAGES, LOSS OF PROFITS OR ANY OTHER KIND OF LOSS WHILE USING
      OR MISUSING THIS SOFTWARE.

   5. Installing and using the UnRAR utility signifies acceptance of
      these terms and conditions of the license.

   6. If you don't agree with terms of the license you must remove
      UnRAR files from your storage devices and cease to use the
      utility.

      Thank you for your interest in RAR and UnRAR.  Alexander L. Roshal

Sqlite (included in the "provided" org.xerial's sqlite-jdbc)
    Sqlite is in the Public Domain.  For details
    see: https://www.sqlite.org/copyright.html

Two photos in test-documents (testWebp_Alpha_Lossy.webp and
 testWebp_Alpha_Lossless.webp)
    are in the public domain.  These files were retrieved from:
    https://github.com/drewnoakes/metadata-extractor-images/tree/master/webp
    These photos are also available here:
    https://developers.google.com/speed/webp/gallery2#webp_links
    Credits for the photo:
    "Free Stock Photo in High Resolution - Yellow Rose 3 - Flowers"
    Image Author: Jon Sullivan

=======================================================
Additional 4th party dependencies in Tika released under Apache 2.0 license
=======================================================

NOTICE
---------
Apache POI
Copyright 2003-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This product contains parts that were originally based on software from BEA.
Copyright (c) 2000-2003, BEA Systems, <http://www.bea.com/> (dead link),
which was acquired by Oracle Corporation in 2008.
<http://www.oracle.com/us/corporate/Acquisitions/bea/index.html>
<https://en.wikipedia.org/wiki/BEA_Systems>

This product contains W3C XML Schema documents. Copyright 2001-2003 (c)
World Wide Web Consortium (Massachusetts Institute of Technology, European
Research Consortium for Informatics and Mathematics, Keio University)

This product contains the chunks_parse_cmds.tbl file from the vsdump
 program.
Copyright (C) 2006-2007 Valek Filippov (frob@df.ru)
```

```
This product contains parts of the eID Applet project
<http://eid-applet.googlecode.com> and <https://github.com/e-Contract/eid-
applet>.
Copyright (c) 2009-2014
FedICT (federal ICT department of Belgium), e-Contract.be BVBA (https://
www.e-contract.be),
Bart Hanssens from FedICT

APACHE POI SUBCOMPONENTS (poi-4.1.2.jar\META-INF\LICENSE)

Apache POI includes subcomponents with separate copyright notices and
license terms. Your use of these subcomponents is subject to the terms
and conditions of the following licenses:


Office Open XML schemas (ooxml-schemas-1.*.jar)

    The Office Open XML schema definitions used by Apache POI are
    a part of the Office Open XML ECMA Specification (ECMA-376, [1]).
    As defined in section 9.4 of the ECMA bylaws [2], this specification
    is available to all interested parties without restriction:

        9.4 All documents when approved shall be made available to
            all interested parties without restriction.

    Furthermore, both Microsoft and Adobe have granted patent licenses
    to this work [3,4,5].

    [1] http://www.ecma-international.org/publications/standards/
Ecma-376.htm
    [2] http://www.ecma-international.org/memento/Ecmabylaws.htm
    [3] http://www.microsoft.com/openspecifications/en/us/programs/osp/
default.aspx
    [4] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma
%20PATENT/
        Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent
%20Declaration.pdf
    [5] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma
%20PATENT/
        Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf


Bouncy Castle library (bcprov-*.jar, bcpg-*.jar, bcpkix-*.jar)

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
    deal in the Software without restriction, including without limitation
 the
    rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or
    sell copies of the Software, and to permit persons to whom the Software
 is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
    IN THE SOFTWARE.

Hamcrest library (hamcrest-*.jar) & CuvesAPI / Curve API

    BSD License

    Copyright (c) 2000-2006, www.hamcrest.org
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
 met:

    Redistributions of source code must retain the above copyright notice,
 this
    list of conditions and the following disclaimer. Redistributions in
 binary
    form must reproduce the above copyright notice, this list of conditions
 and
    the following disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name of Hamcrest nor the names of its contributors may be
 used
    to endorse or promote products derived from this software without
 specific
    prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
    LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
    SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
    INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
    CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
    ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE
    POSSIBILITY OF SUCH DAMAGE.

SLF4J library (slf4j-api-*.jar)

    Copyright (c) 2004-2013 QOS.ch
    All rights reserved.

    Permission is hereby granted, free  of charge, to any person obtaining
    a  copy  of this  software  and  associated  documentation files  (the
    "Software"), to  deal in  the Software without  restriction, including
    without limitation  the rights to  use, copy, modify,  merge, publish,
    distribute,  sublicense, and/or sell  copies of  the Software,  and to
    permit persons to whom the Software  is furnished to do so, subject to
    the following conditions:

    The  above  copyright  notice  and  this permission  notice  shall  be
```

```
    included in all copies or substantial portions of the Software.

    THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
    EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
    MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
    LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
    OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
    WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

inbot-utils (https://github.com/Inbot/inbot-utils)

        The MIT License (MIT)

        Copyright (c) 2015 Inbot

        Permission is hereby granted, free of charge, to any person
 obtaining a copy
        of this software and associated documentation files (the
 "Software"), to deal
        in the Software without restriction, including without limitation
 the rights
        to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
        copies of the Software, and to permit persons to whom the Software
 is
        furnished to do so, subject to the following conditions:

        The above copyright notice and this permission notice shall be
 included in all
        copies or substantial portions of the Software.

        THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR
        IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
        FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
 SHALL THE
        AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
        LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM,
        OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE
        SOFTWARE.
```

Provider: The Codehaus Foundation / Component(s): plexus-utils 3.5.1

```
Copyright: The Codehaus Foundation
License: Apache 2.0

 ./LICENSE.txt

                                 Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.

-------------- Separator --------------

 ./src/main/resources/licenses/extreme.indiana.edu.license.TXT

Indiana University Extreme! Lab Software License

Version 1.1.1

Copyright (c) 2002 Extreme! Lab, Indiana University. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any,
   must include the following acknowledgment:

  "This product includes software developed by the Indiana University
  Extreme! Lab (http://www.extreme.indiana.edu/)."

Alternately, this acknowledgment may appear in the software itself,
if and wherever such third-party acknowledgments normally appear.

4. The names "Indiana University" and "Indiana University Extreme! Lab"
must not be used to endorse or promote products derived from this
software without prior written permission. For written permission,
please contact http://www.extreme.indiana.edu/.

5. Products derived from this software may not use "Indiana University"
name nor may "Indiana University" appear in their name, without prior
written permission of the Indiana University.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHORS, COPYRIGHT HOLDERS OR ITS CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------- Separator --------------

 ./src/main/resources/licenses/javolution.license.TXT

Javolution - Java(TM) Solution for Real-Time and Embedded Systems
Copyright (c) 2006, Javolution (http://javolution.org)
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------- Separator --------------

 ./src/main/resources/licenses/thoughtworks.TXT


/
*****************************************************************************
 * CruiseControl, a Continuous Integration Toolkit
 * Copyright (c) 2001-2003, ThoughtWorks, Inc.
 * 651 W Washington Ave. Suite 500
 * Chicago, IL 60661 USA
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 *     + Redistributions of source code must retain the above copyright
 *       notice, this list of conditions and the following disclaimer.
 *
 *     + Redistributions in binary form must reproduce the above
 *       copyright notice, this list of conditions and the following
 *       disclaimer in the documentation and/or other materials provided
 *       with the distribution.
 *
 *     + Neither the name of ThoughtWorks, Inc., CruiseControl, nor the
 *       names of its contributors may be used to endorse or promote
 *       products derived from this software without specific prior
 *       written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
 * A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR
```

```
 * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 * EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 * LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 * NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
 * SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 ******************************************************************************/

-------------- Separator --------------

 ./NOTICE.txt

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

-------------- Separator --------------
```

Provider: The Error Chain Project Developers / Component(s): rust-error-chain 0.6.0

```
Copyright (c) 2017 The Error-Chain Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


4th Party Dependencies:
- backtrace 0.1.10
Copyright (c) 2014 Alex Crichton
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
```

```
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- backtrace-sys 0.1.10
Copyright (c) 2014 Alex Crichton
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- gcc 0.3.45
Copyright (c) 2014 Alex Crichton
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
```

```
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- libc 0.2.21
- cfg-if 0.1.0
Copyright (c) 2014 Alex Crichton
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- debughelp-sys 0.2.0
Copyright (c) 2015 The winapi-rs Developers
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- winapi 0.2.8
Copyright (c) 2015 The winapi-rs Developers
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
```

```
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- winapi-build 0.1.1
Copyright (c) 2015 The winapi-rs Developers
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- kernel32-sys 0.2.2
Copyright (c) 2015 The winapi-rs Developers
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
```

```
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- winapi 0.2.8
Copyright (c) 2015 The winapi-rs Developers
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- winapi-build 0.1.1
Copyright (c) 2015 The winapi-rs Developers
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- rustc-demangle 0.2.21
Copyright (c) 2014 Alex Crichton
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
```

```
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

- winapi 0.2.8
Copyright (c) 2015 The winapi-rs Developers
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: The Go Authors / Component(s): Go 1.8.0

```
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): Go for VS Code 0.33.1

```
vscode-go

The MIT License (MIT)

Original Work Copyright (c) 2015-2020 Microsoft Corporation
Current Work and Modifications Copyright (c) 2020-present The Go Authors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------separator---------
json-schema (AFL-2.1 OR BSD-3-Clause)
Oracle elects the BSD-3 Clause License

Dojo is available under *either* the terms of the BSD 3-Clause "New" License
 *or* the
Academic Free License version 2.1. As a recipient of Dojo, you may choose
 which
license to receive this code under (except as noted in per-module LICENSE
files). Some modules may not be the copyright of the Dojo Foundation. These
modules contain explicit declarations of copyright in both the LICENSE files
 in
the directories in which they reside and in the code itself. No external
contributions are allowed under licenses which are fundamentally
 incompatible
```

```
with the AFL-2.1 OR and BSD-3-Clause licenses that Dojo is distributed
 under.

The text of the AFL-2.1 and BSD-3-Clause licenses is reproduced below.

-------------------------------------------------------------------------------
BSD 3-Clause "New" License:
**********************

Copyright (c) 2005-2015, The Dojo Foundation
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
 this
    list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
  * Neither the name of the Dojo Foundation nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------
The Academic Free License, v. 2.1:
**********************************

This Academic Free License (the "License") applies to any original work of
authorship (the "Original Work") whose owner (the "Licensor") has placed the
following notice immediately following the copyright notice for the Original
Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide,
royalty-free, non-exclusive, perpetual, sublicenseable license to do the
following:

a) to reproduce the Original Work in copies;

b) to prepare derivative works ("Derivative Works") based upon the Original
Work;

c) to distribute copies of the Original Work and Derivative Works to the
```

```
public;

d) to perform the Original Work publicly; and

e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide,
royalty-free, non-exclusive, perpetual, sublicenseable license, under patent
claims owned or controlled by the Licensor that are embodied in the Original
Work as furnished by the Licensor, to make, use, sell and offer for sale the
Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred
form of the Original Work for making modifications to it and all available
documentation describing how to modify the Original Work. Licensor hereby
agrees to provide a machine-readable copy of the Source Code of the Original
Work along with each copy of the Original Work that Licensor distributes.
Licensor reserves the right to satisfy this obligation by placing a
machine-readable copy of the Source Code in an information repository
reasonably calculated to permit inexpensive and convenient access by You for
 as
long as Licensor continues to distribute the Original Work, and by
 publishing
the address of that information repository in a notice immediately following
the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the
 names
of any contributors to the Original Work, nor any of their trademarks or
service marks, may be used to endorse or promote products derived from this
Original Work without express prior written permission of the Licensor.
 Nothing
in this License shall be deemed to grant any rights to trademarks,
 copyrights,
patents, trade secrets or any other intellectual property of Licensor except
 as
expressly stated herein. No patent license is granted to make, use, sell or
offer to sell embodiments of any patent claims other than the licensed
 claims
defined in Section 2. No right is granted to the trademarks of Licensor even
 if
such marks are included in the Original Work. Nothing in this License shall
 be
interpreted to prohibit Licensor from licensing under different terms from
 this
License any Original Work that Licensor otherwise would have a right to
license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative
Works that You create, all copyright, patent or trademark notices from the
Source Code of the Original Work, as well as any notices of licensing and
 any
descriptive text identified therein as an "Attribution Notice." You must
 cause
the Source Code for any Derivative Works that You create to carry a
 prominent
Attribution Notice reasonably calculated to inform recipients that You have
modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that
the copyright in and to the Original Work and the patent rights granted
 herein
```

```
by Licensor are owned by the Licensor or are sublicensed to You under the
 terms
of this License with the permission of the contributor(s) of those
 copyrights
and patent rights. Except as expressly stated in the immediately proceeding
sentence, the Original Work is provided under this License on an "AS IS"
 BASIS
and WITHOUT WARRANTY, either express or implied, including, without
 limitation,
the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A
 PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU.
This DISCLAIMER OF WARRANTY constitutes an essential part of this License.
 No
license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal
 theory,
whether in tort (including negligence), contract, or otherwise, shall the
Licensor be liable to any person for any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License
or the use of the Original Work including, without limitation, damages for
 loss
of goodwill, work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses. This limitation of liability shall not
apply to liability for death or personal injury resulting from Licensor's
negligence to the extent applicable law prohibits such limitation. Some
jurisdictions do not allow the exclusion or limitation of incidental or
consequential damages, so this exclusion and limitation may not apply to
 You.

9) Acceptance and Termination. If You distribute copies of the Original Work
 or
a Derivative Work, You must make a reasonable effort under the circumstances
 to
obtain the express assent of recipients to the terms of this License.
 Nothing
else but this License (or another written agreement between Licensor and
 You)
grants You permission to create Derivative Works based upon the Original
 Work
or to exercise any of the rights granted in Section 1 herein, and any
 attempt
to do so except under the terms of this License (or another written
 agreement
between Licensor and You) is expressly prohibited by U.S. copyright law, the
equivalent laws of other countries, and by international treaty. Therefore,
 by
exercising any of the rights granted to You in Section 1 herein, You
 indicate
Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate
 automatically
and You may no longer exercise any of the rights granted to You by this
 License
as of the date You commence an action, including a cross-claim or
 counterclaim,
against Licensor or any licensee alleging that the Original Work infringes a
patent. This termination provision shall not apply for an action alleging
patent infringement by combinations of the Original Work with other software
 or
```

```
hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to
 this
License may be brought only in the courts of a jurisdiction wherein the
Licensor resides or in which Licensor conducts its primary business, and
 under
the laws of that jurisdiction excluding its conflict-of-law provisions. The
application of the United Nations Convention on Contracts for the
 International
Sale of Goods is expressly excluded. Any use of the Original Work outside
 the
scope of this License or after its termination shall be subject to the
requirements and penalties of the U.S. Copyright Act, 17 U.S.C. Â§ 101 et
seq., the equivalent laws of other countries, and international treaty. This
section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or
seeking damages relating thereto, the prevailing party shall be entitled to
recover its costs and expenses, including, without limitation, reasonable
attorneys' fees and costs incurred in connection with such action, including
any appeal of such action. This section shall survive the termination of
 this
License.

13) Miscellaneous. This License represents the complete agreement concerning
the subject matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent necessary
 to
make it enforceable.

14) Definition of "You" in This License. "You" throughout this License,
 whether
in upper or lower case, means an individual or a legal entity exercising
 rights
under, and complying with all of the terms of, this License. For legal
entities, "You" includes any entity that controls, is controlled by, or is
under common control with you. For purposes of this definition, "control"
 means
(i) the power, direct or indirect, to cause the direction or management of
 such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

15) Right to Use. You may use the Original Work in all ways not otherwise
restricted or conditioned by this License or by law, and Licensor promises
 not
to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights
 reserved.
Permission is hereby granted to copy and distribute this license without
modification. This license may not be modified without the express written
permission of its copyright owner.
---------separator---------
aws-sign2 (Apache-2.0)
Copyright (c) Mikeal Rogers  (http://www.futurealoof.com)
---------separator---------
caseless (Apache-2.0)
Copyright (c) Mikeal Rogers
---------separator---------
faye-websocket (Apache-2.0)
```

```
Copyright 2010-2021 James Coglan
---------separator---------
forever-agent (Apache-2.0)
Copyright (c) Mikeal Rogers  (http://www.futurealoof.com)
---------separator---------
oauth-sign (Apache-2.0)
Copyright (c) Mikeal Rogers
---------separator---------
request (Apache-2.0)
Copyright (c) Mikeal Rogers
---------separator---------
tunnel-agent (Apache-2.0)
Copyright (c) Mikeal Rogers  (http://www.futurealoof.com)
---------separator---------
websocket-driver (Apache-2.0)
Copyright 2010-2020 James Coglan
---------separator---------
websocket-extensions (Apache-2.0)
Copyright 2014-2020 James Coglan

---------separator---------
aws-sign2
caseless
faye-websocket
forever-agent
oauth-sign
request
tunnel-agent
websocket-driver
websocket-extensions

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
```

```
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
---------separator---------
uri-js (BSD-2-Clause)
Copyright 2011 Gary Court. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of
conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list
of conditions and the following disclaimer in the documentation and/or other
 materials
provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF
```

```
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL
THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------separator---------
bcrypt-pbkdf (BSD-3-Clause)
Copyright 1997 Niels Provos
---------separator---------
diff (BSD-3-Clause)
Copyright (c) 2009-2015, Kevin Decker
---------separator---------
qs (BSD-3-Clause)
Copyright (c) 2014, Nathan LaFreniere and other
[contributors](https://github.com/ljharb/qs/graphs/contributors)
---------separator---------
tough-cookie (BSD-3-Clause)
Copyright (c) 2015, Salesforce.com, Inc.
---------separator---------
bcrypt-pbkdf
diff
qs
tough-cookie

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of
conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of
conditions and the following disclaimer in the documentation and/or other
 materials
provided with the distribution.

* Neither the name of the copyright holder nor the names of its contributors
 may be used
to endorse or promote products derived from this software without specific
 prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL
THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT
```

```
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------separator---------
fs.realpath (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
glob (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
har-schema (ISC)
Copyright (c) 2015, Ahmad Nassri
---------separator---------
inflight (ISC)
Copyright (c) Isaac Z. Schlueter
---------separator---------
inherits (ISC)
Copyright (c) Isaac Z. Schlueter
---------separator---------
json-stringify-safe (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
lru-cache (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
minimatch (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
once (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
semver (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
wrappy (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
yallist (ISC)
Copyright (c) Isaac Z. Schlueter and Contributors
---------separator---------
fs.realpath
glob
har-schema
inflight
inherits
ini
json-stringify-safe
lru-cache
minimatch
once
semver
wrappy
yallist

Permission to use, copy, modify, and/or distribute this software for any
 purpose
with or without fee is hereby granted, provided that the above copyright
 notice
and this permission notice appear in all copies.
```

```
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
 LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF
THIS SOFTWARE.

---------separator---------
es5class (MIT)
Copyright (c) 2011 Bruno Filippone
---------separator---------
object-assign (MIT)
Copyright (c) Sindre Sorhus  (sindresorhus.com)
---------separator---------
ajv (MIT)
Copyright (c) 2015-2021 Evgeny Poberezkin
---------separator---------
asn1 (MIT)
Copyright (c) 2011 Mark Cavage, All rights reserved.
---------separator---------
assert-plus (MIT)
Copyright (c) 2012 Mark Cavage
---------separator---------
asynckit (MIT)
Copyright (c) 2016 Alex Indigo
---------separator---------
aws4 (MIT)
Copyright 2013 Michael Hart (michael.hart.au@gmail.com)
---------separator---------
balanced-match (MIT)
Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>
---------separator---------
better-curry (MIT)
Copyright (c) 2014 Paulo Cesar
---------separator---------
brace-expansion (MIT)
Copyright (c) 2013 Julian Gruber
---------separator---------
combined-stream (MIT)
Copyright (c) 2011 Debuggable Limited
---------separator---------
concat-map (MIT)
The above copyright notice and this permission notice shall be included in
 all
---------separator---------
core-util-is (MIT)
Copyright Node.js contributors. All rights reserved.
---------separator---------
dashdash (MIT)
Copyright (c) 2013 Trent Mick. All rights reserved.
---------separator---------
debug (MIT)
Copyright (c) 2014-2017 TJ Holowaychuk
---------separator---------
delayed-stream (MIT)
Copyright (c) 2011 Debuggable Limited
---------separator---------
ecc-jsbn (MIT)
```

```
Copyright (c) 2014 Jeremie Miller
---------separator---------
extend (MIT)
Copyright (c) 2014 Stefan Thomas
---------separator---------
extsprintf (MIT)
Copyright (c) 2012, Joyent, Inc. All rights reserved.
---------separator---------
fast-deep-equal (MIT)
Copyright (c) 2017 Evgeny Poberezkin
---------separator---------
fast-json-stable-stringify (MIT)
Copyright (c) 2017 Evgeny Poberezkin
---------separator---------
form-data (MIT)
Copyright (c) 2012 Felix Geisendörfer (felix@debuggable.com) and
 contributors
---------separator---------
getpass (MIT)
Copyright Joyent, Inc. All rights reserved.
---------separator---------
har-validator (MIT)
Copyright (c) 2018 Ahmad Nassri
---------separator---------
http-parser-js (MIT)
Copyright (c) 2015 Tim Caswell (https://github.com/creationix) and other
---------separator---------
http-signature (MIT)
Copyright Joyent, Inc. All rights reserved.
---------separator---------
is-typedarray (MIT)
The above copyright notice and this permission notice shall be included in
 all
---------separator---------
isstream (MIT)
Copyright (c) 2015 Rod Vagg
---------separator---------
jsbn (MIT)
This software is covered under the following copyright:
---------separator---------
json-rpc2 (MIT)
Copyright (C) 2009 Eric Florenzano  and
---------separator---------
json-schema-traverse (MIT)
Copyright (c) 2017 Evgeny Poberezkin
---------separator---------
jsprim (MIT)
Copyright (c) 2012, Joyent, Inc. All rights reserved.
---------separator---------
lodash (MIT)
Copyright OpenJS Foundation and other contributors
---------separator---------
mime-db (MIT)
Copyright (c) 2014 Jonathan Ong
---------separator---------
mime-types (MIT)
Copyright (c) 2014 Jonathan Ong
---------separator---------
minimist (MIT)
The above copyright notice and this permission notice shall be included in
 all
---------separator---------
mkdirp (MIT)
Copyright 2010 James Halliday (mail@substack.net)
```

```
---------separator---------
moment (MIT)
Copyright (c) JS Foundation and other contributors
---------separator---------
ms (MIT)
Copyright (c) 2016 Zeit, Inc.
---------separator---------
path-is-absolute (MIT)
Copyright (c) Sindre Sorhus  (sindresorhus.com)
---------separator---------
performance-now (MIT)
Copyright (c) 2013 Braveg1rl
---------separator---------
progress (MIT)
Copyright (c) 2017 TJ Holowaychuk
---------separator---------
safe-buffer (MIT)
Copyright (c) Feross Aboukhadijeh
---------separator---------
safer-buffer (MIT)
Copyright (c) 2018 Nikita Skovoroda
---------separator---------
sshpk (MIT)
Copyright Joyent, Inc. All rights reserved.
---------separator---------
tree-kill (MIT)
Copyright (c) 2018 Peter Krumins
---------separator---------
uuid (MIT)
Copyright (c) 2010-2016 Robert Kieffer and other contributors
---------separator---------
verror (MIT)
Copyright (c) 2016, Joyent, Inc. All rights reserved.
---------separator---------
vscode-debugadapter (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-debugadapter-testsupport (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-debugprotocol (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-jsonrpc (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-languageclient (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-languageserver-protocol (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-languageserver-types (MIT)
Copyright (c) Microsoft Corporation
---------separator---------
vscode-uri (MIT)
Copyright (c) Microsoft
---------separator---------
web-request (MIT)
Copyright (c) 2016 Dave Templin
---------separator---------
ajv
asn1
assert-plus
```

```
asynckit
aws4
balanced-match
better-curry
brace-expansion
combined-stream
concat-map
core-util-is
dashdash
debug
delayed-stream
extend
extsprintf
fast-deep-equal
fast-json-stable-stringify
form-data
getpass
har-validator
http-parser-js
http-signature
is-typedarray
isstream
jsbn
json-rpc2
json-schema-traverse
jsonparse
jsprim
lodash
mime-db
mime-types
minimist
mkdirp
moment
ms
path-is-absolute
performance-now
progress
psl
punycode
safe-buffer
safer-buffer
sshpk
tree-kill
uuid
verror
vscode-debugadapter
vscode-debugadapter-testsupport
vscode-debugprotocol
vscode-jsonrpc
vscode-languageclient
vscode-languageserver-protocol
vscode-languageserver-types
vscode-uri
web-request

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


---------separator---------
tweetnacl(Unlicense)

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the software to
 the public
domain. We make this dedication for the benefit of the public at large and
 to the
detriment of our heirs and successors. We intend this dedication to be an
 overt act of
relinquishment in perpetuity of all present and future rights to this
 software under
copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY
 CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
SOFTWARE.

For more information, please refer to

      "Work" shall mean the work of authorship, whether in Source or Object
 form, made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
 form, that is
based on (or derived from) the Work and for which the editorial revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including the
 original version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work by
```

```
the copyright owner or by an individual or Legal Entity authorized to submit
 on
behalf of the copyright owner. For the purposes of this definition,
 "submitted"
means any form of electronic, verbal, or written communication sent to the
Licensor or its representatives, including but not limited to communication
 on
electronic mailing lists, source code control systems, and issue tracking
 systems
that are managed by, or on behalf of, the Licensor for the purpose of
 discussing
and improving the Work, but excluding communication that is conspicuously
 marked
or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of
whom a Contribution has been received by Licensor and subsequently
 incorporated
within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
 this License,
each Contributor hereby grants to You a perpetual, worldwide, non-
exclusive,
no-charge, royalty-free, irrevocable copyright license to reproduce,
 prepare
Derivative Works of, publicly display, publicly perform, sublicense, and
 distribute
the Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of this
 License, each
Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-
charge,
royalty-free, irrevocable (except as stated in this section) patent license
 to make,
have made, use, offer to sell, sell, import, and otherwise transfer the
 Work, where
such license applies only to those patent claims licensable by such
 Contributor that
are necessarily infringed by their Contribution(s) alone or by combination
 of their
Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You
institute patent litigation against any entity (including a cross-claim or
counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated
within the Work constitutes direct or contributory patent infringement, then
 any
patent licenses granted to You under this License for that Work shall
 terminate as of
the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative
Works thereof in any medium, with or without modifications, and in Source or
 Object
form, provided that You meet the following conditions:

      (a) You must give any other recipients of the Work or Derivative Works
 a copy of
this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
 stating that You
changed the files; and

      (c) You must retain, in the Source form of any Derivative Works that
 You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
 part
of the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
 distribution, then
any Derivative Works that You distribute must include a readable copy of
 the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
 Derivative
Works; within the Source form or documentation, if provided along with the
Derivative Works; or, within a display generated by the Derivative Works, if
 and
wherever such third-party notices normally appear. The contents of the
 NOTICE file
are for informational purposes only and do not modify the License. You may
 add
Your own attribution notices within Derivative Works that You distribute,
alongside or as an addendum to the NOTICE text from the Work, provided that
 such
additional attribution notices cannot be construed as modifying the License.

      You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
 any
Contribution intentionally submitted for inclusion in the Work by You to the
 Licensor
shall be under the terms and conditions of this License, without any
 additional terms
or conditions. Notwithstanding the above, nothing herein shall supersede or
 modify
the terms of any separate license agreement you may have executed with
 Licensor
regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
 names,
trademarks, service marks, or product names of the Licensor, except as
 required for
reasonable and customary use in describing the origin of the Work and
 reproducing the
content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing,
Licensor provides the Work (and each Contributor provides its Contributions)
 on an
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
 or
implied, including, without limitation, any warranties or conditions of
 TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
 redistributing the
Work and assume any risks associated with Your exercise of permissions under
 this
License.

   8. Limitation of Liability. In no event and under no legal theory,
 whether in tort
(including negligence), contract, or otherwise, unless required by
 applicable law
(such as deliberate and grossly negligent acts) or agreed to in writing,
 shall any
Contributor be liable to You for damages, including any direct, indirect,
 special,
incidental, or consequential damages of any character arising as a result of
 this
License or out of the use or inability to use the Work (including but not
 limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or any
and all other commercial damages or losses), even if such Contributor has
 been
advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing the
 Work or
Derivative Works thereof, You may choose to offer, and charge a fee for,
 acceptance
of support, warranty, indemnity, or other liability obligations and/or
 rights
consistent with this License. However, in accepting such obligations, You
 may act
only on Your own behalf and on Your sole responsibility, not on behalf of
 any other
Contributor, and only if You agree to indemnify, defend, and hold each
 Contributor
harmless for any liability incurred by, or claims asserted against, such
 Contributor
by reason of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
 boilerplate notice,
with the fields enclosed by brackets "[]" replaced with your own
 identifying
information. (Don't include the brackets!)  The text should be enclosed in
 the
appropriate comment syntax for the file format. We also recommend that a
 file or
```

```
class name and description of purpose be included on the same "printed page"
 as
the copyright notice for easier identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this
file except in compliance with the License. You may obtain a copy of the
 License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
 distributed under
the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 CONDITIONS OF
ANY KIND, either express or implied. See the License for the specific
 language
governing permissions and limitations under the License.
---------separator---------
```

Provider: The Go Authors / Component(s): golang.org/x/crypto a92615f

```
golang crypto a92615f3c49003920a58dedcf32cf55022cefb8d
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------
4P Dependencies:

golang.org/x/sys version 95c6576299259db960f6c5b9b69ea52422860fce
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): golang text 0.3.0

```
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): golang text 0.3.2

```
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): golang.org/x/crypto 2cf3ade

```
golang.org/x/crypto
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright (c) 2021 The Go Authors. All rights reserved.
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
```

```
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- License
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
golang.org/x/net
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright (C) 2009 Apple Inc. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
```

```
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/sys
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/term
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/text
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
```

```
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependencies Summary
golang.org/x/net
golang.org/x/sys
golang.org/x/term
golang.org/x/text

-------- License used by Dependencies
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: c9931fe7c49ca5de0ec8a2f52c5d1c9b
```

Provider: The Go Authors / Component(s): golang.org/x/net 0.1.0

```
------------------------------ Top-Level License
 -------------------------------
SPDX:BSD-3-Clause--modified-by-Google

----------------------------------- Copyright
 -----------------------------------
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
```

```
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

-------------------------- Fourth Party Dependencies
 ---------------------------

------------------------------------ Licenses
 ------------------------------------
-  BSD-3-Clause--modified-by-Google

---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/term

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
```

```
== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


------------------------------------ Licenses
 ------------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): golang.org/x/net 0.22.0

```
------------------------------- Top-Level License
 -------------------------------
SPDX:BSD-3-Clause--modified-by-Google

----------------------------------- Copyright
 -----------------------------------
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------------------- Fourth Party Dependencies
 ---------------------------

------------------------------------ Licenses
 ------------------------------------
-  BSD-3-Clause--modified-by-Google

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
golang.org/x/crypto

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright (c) 2021 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/term

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
```

```
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
```

```
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


----------------------------------- Licenses
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): golang.org/x/net 0.5.0

```
golang.org/x/net

------------------------------- Top-Level License
 -------------------------------
SPDX:BSD-3-Clause--modified-by-Google

----------------------------------- Copyright
 -----------------------------------
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
```

```
---------------------------------- Patents
 -------------------------------------
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.

-------------------------- Fourth Party Dependencies
 ---------------------------

----------------------------------- Licenses
 -----------------------------------
-  BSD-3-Clause--modified-by-Google

---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
See the "Patents" section under the Top-Level License.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/term

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
See the "Patents" section under the Top-Level License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
See the "Patents" section under the Top-Level License.


------------------------------------ Licenses
 ------------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): golang.org/x/net 0.7.0

```
golang.org/x/net

------------------------------ Top-Level License
 -------------------------------
SPDX:BSD-3-Clause--modified-by-Google
----------------------------------- Copyright
 -----------------------------------
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
-------------------------- Fourth Party Dependencies
 --------------------------
------------------------------------ Licenses
 ------------------------------------
-  BSD-3-Clause--modified-by-Google
---------------------------------- (separator)
 ----------------------------------
== Dependency
golang.org/x/sys
== License Type
SPDX:BSD-3-Clause--modified-by-Google
== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
```

```
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
== Patents
Additional IP Rights Grant (Patents)
"This implementation" means the copyrightable works distributed by
Google as part of the Go project.
Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
---------------------------------- (separator)
 -----------------------------------
== Dependency
golang.org/x/term
== License Type
SPDX:BSD-3-Clause--modified-by-Google
== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
== Patents
Additional IP Rights Grant (Patents)
"This implementation" means the copyrightable works distributed by
Google as part of the Go project.
Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

```
---------------------------------- (separator)
 -----------------------------------
== Dependency
golang.org/x/text
== License Type
SPDX:BSD-3-Clause--modified-by-Google
== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
== Patents
Additional IP Rights Grant (Patents)
"This implementation" means the copyrightable works distributed by
Google as part of the Go project.
Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
------------------------------------ Licenses
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): golang.org/x/net 2871e0c

```
golang.org/x/net
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright (C) 2009 Apple Inc. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- License
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
```

```
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
golang.org/x/sys
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

```
-------- Dependency
golang.org/x/term
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependency
golang.org/x/text
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
```

```
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependencies Summary
golang.org/x/sys
golang.org/x/term
golang.org/x/text

-------- License used by Dependencies
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: b26471e5b81d88a8ee6d0e8c371e0626
```

Provider: The Go Authors / Component(s): golang.org/x/sys 0.1.0

```
------------------------------- Top-level license --------------------------
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
.
.
.
------------------------------- Copyright notices --------------------------
Additional IP Rights Grant (Patents)
"This implementation" means the copyrightable works distributed by
Google as part of the Go project.
Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

Provider: The Go Authors / Component(s): golang.org/x/sys 0.17.0

```
------------------------------- Top-Level License
 -------------------------------
SPDX:BSD-3-Clause--modified-by-Google

---------------------------------- Copyright
 ----------------------------------
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
```

```
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): golang.org/x/sys 0.4.0

```
golang.org/x/sys

------------------------------ Top-Level License
 -------------------------------
SPDX:BSD-3-Clause--modified-by-Google

----------------------------------- Copyright
 -----------------------------------
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
```

```
---------------------------------- Patents
 -------------------------------------
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.

---------------------------------- License
 -------------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): golang.org/x/sys 5a39038

```
golang.org/x/sys
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- License
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
```

```
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: bcc1c53982af43964f1e60f53880931d
```

Provider: The Go Authors / Component(s): golang/sys release-branch.go1.12

```
URL of LICENSE file:  https://github.com/golang/sys/blob/
d75a52659825e75fff6158388dddc6a5b04f9ba5/LICENSE
LICENSE text:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

URL of PATENTS file:  https://github.com/golang/sys/blob/
d75a52659825e75fff6158388dddc6a5b04f9ba5/PATENTS
PATENTS text:
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
```

```
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.

In additional the source code files in sys/unix all begin with :
// Copyright 2009 The Go Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

The Copyright years range from 2009 through 2016.
```

Provider: The Go Authors / Component(s): go-net commit 49bb7ce

```
go-lang net commit 49bb7cea24b1df9410e1712aa6433dae904ff66a

COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------
4P Dependencies:

golang.org/x/text version b19bf474d317b857955b12035d2c5acb57ce8b01
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): Google Go 0.10.2

```
License

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): go-protobuf 1.2.0

```
go-lang protobuf 1.2.0
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
```

```
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



==============================
4P Dependencies:

go-lang libraries 1.2
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): go-protobuf 1.3.1

```
go-lang protobuf 1.2.0
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



==============================
4P Dependencies:

go-lang libraries 1.2
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): go-time commit fbb02b2

```
Go-lang Time commit fbb02b2
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): net c44066c

```
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): protobuf-go 1.27.1

```
google.golang.org/protobuf
```

```
-------- Copyrights
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- License
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/google/go-cmp
-------- Copyrights
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2017, The Go Authors. All rights reserved.
Copyright 2021, The Go Authors. All rights reserved.
Copyright 2020, The Go Authors. All rights reserved.
Copyright 2018, The Go Authors. All rights reserved.
Copyright 2019, The Go Authors. All rights reserved.

-------- Dependencies Summary
github.com/google/go-cmp

-------- License used by Dependencies
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: 40c3d12cfe16359dae74f124b8dd7dea
```

Provider: The Go Authors / Component(s): protobuf-go 1.28.1

```
=== Public License Template ===

------------------------------ Top-Level License
 -------------------------------
SPDX:BSD-3-Clause--modified-by-Google

---------------------------------- Copyright
 -----------------------------------
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
```

```
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

-------------------------- Fourth Party Dependencies
 ---------------------------

----------------------------------- Licenses
 -----------------------------------
-  BSD-3-Clause--modified-by-Google

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/google/go-cmp

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2017, The Go Authors. All rights reserved.
Copyright 2018, The Go Authors. All rights reserved.
Copyright 2019, The Go Authors. All rights reserved.
Copyright 2020, The Go Authors. All rights reserved.
Copyright 2021, The Go Authors. All rights reserved.

----------------------------------- Licenses
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): protobuf-go 1.5.4

```
------------------------------ Top-Level License
 ------------------------------
SPDX:BSD-3-Clause--modified-by-Google

---------------------------------- Copyright
 ----------------------------------
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

-------------------------- Fourth Party Dependencies
 ---------------------------

----------------------------------- Licenses
 -----------------------------------
-  BSD-3-Clause--modified-by-Google

--------------------------------- (separator)
 ---------------------------------

== Dependency
google.golang.org/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 Google Inc.  All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
```

```
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


----------------------------------- Licenses
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Go Authors / Component(s): sync 0.0.0-20210220032951-036812b2e83c

```
golang.org/x/sync
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
-------- License
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
```

```
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------- Patents
Additional IP Rights Grant (Patents)
"This implementation" means the copyrightable works distributed by
Google as part of the Go project.
Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

Provider: The Go Authors / Component(s): sys 7e31e0c

```
URL of LICENSE file:  https://github.com/golang/sys/blob/
d75a52659825e75fff6158388dddc6a5b04f9ba5/LICENSE
LICENSE text:
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

URL of PATENTS file:  https://github.com/golang/sys/blob/
d75a52659825e75fff6158388dddc6a5b04f9ba5/PATENTS
PATENTS text:
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.

In additional the source code files in sys/unix all begin with :
// Copyright 2009 The Go Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

The Copyright years range from 2009 through 2016.
```

Provider: The gRPC Authors / Component(s): grpc-protobuf 1.57.1

```
##############################################################################
Top Level License - grpc-protobuf
##############################################################################

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
```

```
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
```

```
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       = License text for Apache 2.0 as above

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

################################################################################
Top Level Notice - grpc-protobuf
################################################################################
Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    = License text for Apache 2.0 as above

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------------------------------------------------------------

This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:

  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp

This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:

  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
      Envoy
      Copyright The Envoy Project Authors

      Licensed under Apache License 2.0.  See LICENSE for terms.
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy

This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:

  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate

This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
```

```
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa

================================================================================
4P Dependencies:
================================================================================
_________________________________
com.google.code.findbugs:jsr305
_________________________________
License -
  Copyright (c) 2007-2009, JSR305 expert group
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

      * Redistributions of source code must retain the above copyright
 notice,
        this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above copyright
 notice,
        this list of conditions and the following disclaimer in the
 documentation
        and/or other materials provided with the distribution.
      * Neither the name of the JSR305 expert group nor the names of its
        contributors may be used to endorse or promote products derived
 from
        this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
  THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE
  POSSIBILITY OF SUCH DAMAGE.

  == jcip-annotations relicensed to Oracle under BSD 3-clause license

  Copyright (c) 2005, Brian Goetz and Tim Peierls

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
 met:

      * Redistributions of source code must retain the above copyright
 notice,
        this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above copyright
 notice,
        this list of conditions and the following disclaimer in the
 documentation
```

```
        and/or other materials provided with the distribution.
      * Neither the name of the JSR305 expert group nor the names of its
        contributors may be used to endorse or promote products derived
 from
        this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
  THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE
  POSSIBILITY OF SUCH DAMAGE.

Notice -
  Copyright (c) 2005, Brian Goetz and Tim Peierls

  Copyright (c) 2007-2009, JSR305 expert group
  All rights reserved.
_____________________________________________________
com.google.api.grpc:proto-google-common-protos
_____________________________________________________
License -
  = License text for Apache 2.0 as above

Notice -
  Copyright 2018 Google LLC.

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      = License text for Apache 2.0 as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
_____________________________________________________
io.grpc:grpc-protobuf-lite
_____________________________________________________
License -
  = License text for Apache 2.0 as above

Notice -
  Copyright 2014 The gRPC Authors

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      = License text for Apache 2.0 as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
  See the License for the specific language governing permissions and
  limitations under the License.

  This product contains a modified portion of 'OkHttp', an open source
  HTTP & SPDY client for Android and Java applications, which can be
 obtained
  at:

    * LICENSE:
      * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
    * HOMEPAGE:
      * https://github.com/square/okhttp
    * LOCATION_IN_GRPC:
      * okhttp/third_party/okhttp

  This product contains a modified portion of 'Envoy', an open source
  cloud-native high-performance edge/middle/service proxy, which can be
  obtained at:

    * LICENSE:
      * xds/third_party/envoy/LICENSE (Apache License 2.0)
    * NOTICE:
      Envoy
      Copyright The Envoy Project Authors

      Licensed under Apache License 2.0.  See LICENSE for terms.
    * HOMEPAGE:
      * https://www.envoyproxy.io
    * LOCATION_IN_GRPC:
      * xds/third_party/envoy

  This product contains a modified portion of 'protoc-gen-validate (PGV)',
  an open source protoc plugin to generate polyglot message validators,
  which can be obtained at:

    * LICENSE:
      * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
    * HOMEPAGE:
      * https://github.com/envoyproxy/protoc-gen-validate
    * LOCATION_IN_GRPC:
      * xds/third_party/protoc-gen-validate

  This product contains a modified portion of 'udpa',
  an open source universal data plane API, which can be obtained at:

    * LICENSE:
      * xds/third_party/udpa/LICENSE (Apache License 2.0)
    * HOMEPAGE:
      * https://github.com/cncf/udpa
    * LOCATION_IN_GRPC:
      * xds/third_party/udpa
_______________________________________________
com.google.guava:guava
_______________________________________________
License -
  = License text for Apache 2.0 as above

Notice -
  Copyright (C) 2020 The Guava Authors

  Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
  in compliance with the License. You may obtain a copy of the License at
```

```
  = License text for Apache 2.0 as above

  Unless required by applicable law or agreed to in writing, software
 distributed under the License
  is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
  or implied. See the License for the specific language governing
 permissions and limitations under
  the License.
_____________________________________________

io.grpc:grpc-api
_____________________________________________

License -
  = License text for Apache 2.0 as above

Notice -
  Copyright 2014 The gRPC Authors

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      = License text for Apache 2.0 as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

  This product contains a modified portion of 'OkHttp', an open source
  HTTP & SPDY client for Android and Java applications, which can be
 obtained
  at:

    * LICENSE:
      * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
    * HOMEPAGE:
      * https://github.com/square/okhttp
    * LOCATION_IN_GRPC:
      * okhttp/third_party/okhttp

  This product contains a modified portion of 'Envoy', an open source
  cloud-native high-performance edge/middle/service proxy, which can be
  obtained at:

    * LICENSE:
      * xds/third_party/envoy/LICENSE (Apache License 2.0)
    * NOTICE:
      Envoy
      Copyright The Envoy Project Authors

      Licensed under Apache License 2.0.  See LICENSE for terms.
    * HOMEPAGE:
      * https://www.envoyproxy.io
    * LOCATION_IN_GRPC:
      * xds/third_party/envoy

  This product contains a modified portion of 'protoc-gen-validate (PGV)',
  an open source protoc plugin to generate polyglot message validators,
  which can be obtained at:

    * LICENSE:
      * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
```

```
    * HOMEPAGE:
      * https://github.com/envoyproxy/protoc-gen-validate
    * LOCATION_IN_GRPC:
      * xds/third_party/protoc-gen-validate

  This product contains a modified portion of 'udpa',
  an open source universal data plane API, which can be obtained at:

    * LICENSE:
      * xds/third_party/udpa/LICENSE (Apache License 2.0)
    * HOMEPAGE:
      * https://github.com/cncf/udpa
    * LOCATION_IN_GRPC:
      * xds/third_party/udpa
_______________________________________________
com.google.guava:failureaccess
_______________________________________________
License -
  = License text for Apache 2.0 as above

Notice -
  Copyright (C) 2020 The Guava Authors

  Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
  in compliance with the License. You may obtain a copy of the License at

  = License text for Apache 2.0 as above

  Unless required by applicable law or agreed to in writing, software
 distributed under the License
  is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
  or implied. See the License for the specific language governing
 permissions and limitations under
  the License.
_______________________________________________
com.google.guava:listenablefuture
_______________________________________________
License -
  = License text for Apache 2.0 as above

Notice -
  Copyright (C) 2020 The Guava Authors

  Licensed under the Apache License, Version 2.0 (the "License"); you may
 not use this file except
  in compliance with the License. You may obtain a copy of the License at

  = License text for Apache 2.0 as above

  Unless required by applicable law or agreed to in writing, software
 distributed under the License
  is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express
  or implied. See the License for the specific language governing
 permissions and limitations under
  the License.
_______________________________________________
com.google.errorprone:error_prone_annotations
_______________________________________________
License -
  = License text for Apache 2.0 as above
```

```
Notice -
  Copyright 2015 The Error Prone Authors.

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

  = License text for Apache 2.0 as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
_____________________________________________
com.google.j2objc:j2objc-annotations
_____________________________________________
License -
  = License text for Apache 2.0 as above

Notice -
  Copyright 2012 Google Inc. All Rights Reserved.

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

  = License text for Apache 2.0 as above

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
_____________________________________________
org.checkerframework:checker-qual
_____________________________________________
License and Notice -
  Checker Framework qualifiers
  Copyright 2004-present by the Checker Framework developers

  MIT License:

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
 deal
  in the Software without restriction, including without limitation the
 rights
  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
```

```
  THE SOFTWARE.
_____________________________________________
com.google.protobuf:protobuf-java
_____________________________________________
License -
  Copyright 2008 Google Inc.  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

      * Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
      * Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  Code generated by the Protocol Buffer compiler is owned by the owner
  of the input file used when generating it.  This code is not
  standalone and requires a support library to be linked with it.  This
  support library is itself covered by the above license.

Notice -
  Protocol Buffers - Google's data interchange format
  Copyright 2008 Google Inc.  All rights reserved.

  Use of this source code is governed by a BSD-style
  license that can be found in the LICENSE file or at
  Copyright (c) 2013, Google Inc.
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
  Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
  Neither the name of Google Inc. nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
```

```
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The gRPC Authors / Component(s): grpc 1.20.1

```
grpc 1.20.1
COPYRIGHT: Copyright 2014 gRPC authors.
LICENSE: Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
            documentation, if provided along with the Derivative Works; or,
            within a display generated by the Derivative Works, if and
            wherever such third-party notices normally appear. The contents
            of the NOTICE file are for informational purposes only and
            do not modify the License. You may add Your own attribution
            notices within Derivative Works that You distribute, alongside
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
****************************
4P Dependencies:
****************************


c-ares 1.50
COPYRIGHT and LICENSE:
Copyright (c) 2007 - 2018, Daniel Stenberg with many contributors, see
 AUTHORS file.

Copyright 1998 by the Massachusetts Institute of Technology.

Permission to use, copy, modify, and distribute this software and its
 documentation for any purpose and without fee is hereby granted, provided
 that the above copyright notice appear in all copies and that both
 that copyright notice and this permission notice appear in supporting
 documentation, and that the name of M.I.T. not be used in advertising or
 publicity pertaining to distribution of the software without specific,
 written prior permission. M.I.T. makes no representations about the
 suitability of this software for any purpose. It is provided "as is"
 without express or implied warranty.



===
google-protobuf 3.6.1
COPYRIGHT and LICENSE:
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
```

```
===
googletest 1.8.1
COPYRIGHT and LICENSE:
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
zlib 1.2.11
COPYRIGHT and LICENSE:

 (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not*
 receiving
lengthy legal documents to sign.  The sources are provided for free but
 without
```

```
warranty of any kind.  The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include
 in
the file ChangeLog history information documenting your changes.  Please
 read
the FAQ for more information on the distribution of modified source
 versions.



===
address_sorting 1.82
COPYRIGHT and LICENSE:
Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.


===
nanopb 0.3.6
COPYRIGHT and LICENSE:
Copyright (c) 2011 Petteri Aimonen <jpa at nanopb.mail.kapsi.fi>

This software is provided 'as-is', without any express or
implied warranty. In no event will the authors be held liable
for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any
purpose, including commercial applications, and to alter it and
redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software. If you use
   this software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and
   must not be misrepresented as being the original software.
```

```
3. This notice may not be removed or altered from any source
distribution.




==========================================
Dependencies listed in github but not used:


abseil-cpp @ commit cc4bed2
COPYRIGHT: Copyright 2017 - 2019 The Abseil Authors.
LICENSE: Apache 2.0 https://github.com/abseil/abseil-cpp/blob/
cc4bed2d74f7c8717e31f9579214ab52a9c9c610/LICENSE


===
benchmark commit e776aa0
COPYRIGHT: Copyright 2018 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/google/benchmark/blob/
e776aa0275e293707b6a0901e0e8d8a8a3679508/LICENSE


===
bloaty commit 73594cd
COPYRIGHT: Copyright 2016 Google Inc. All Rights Reserved.
LICENSE: Apache 2.0 https://github.com/google/bloaty/
blob/73594cde8c9a52a102c4341c244c833aa61b9c06/LICENSE


===
boringssl commit b29b21a
boringssl-with-bazel commit afc30d4

COPYRIGHT and LICENSE:
BoringSSL is a fork of OpenSSL. As such, large parts of it fall under
 OpenSSL
licensing. Files that are completely new have a Google copyright and an ISC
license. This license is reproduced at the bottom of this file.

Contributors to BoringSSL are required to follow the CLA rules for Chromium:
https://cla.developers.google.com/clas

Files in third_party/ have their own licenses, as described therein. The MIT
license, for third_party/fiat, which, unlike other third_party directories,
 is
compiled into non-test libraries, is included below.

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of
 the
OpenSSL License and the original SSLeay license apply to the toolkit. See
 below
for the actual license texts. Actually both licenses are BSD-style Open
 Source
licenses. In case of any license issues related to OpenSSL please contact
openssl-core@openssl.org.

The following are Google-internal bug numbers where explicit permission from
some authors is recorded for use of their work. (This is purely for our own
record keeping.)
  27287199
  27287880
  27287883
```

```
  OpenSSL License
  ---------------

/* ====================================================================
 * Copyright (c) 1998-2011 The OpenSSL Project.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
 * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 * ====================================================================
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com).  This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 *
 */

 Original SSLeay License
 -----------------------

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
```

```
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given
attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the
library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof)
from
*    the apps directory (application code) you must include an
acknowledgement:
*    "This product includes software written by Tim Hudson
(tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version
or
* derivative of this code cannot be changed.  i.e. this code cannot simply
be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

```
ISC license used for completely new code in BoringSSL:

/* Copyright (c) 2015, Google Inc.
 *
 * Permission to use, copy, modify, and/or distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
 ANY
 * SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 ACTION
 * OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
 * CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. */


The code in third_party/fiat carries the MIT license:

Copyright (c) 2015-2016 the fiat-crypto authors (see
https://github.com/mit-plv/fiat-crypto/blob/master/AUTHORS).

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Licenses for support code
-------------------------

Parts of the TLS test suite are under the Go license. This code is not
 included
in BoringSSL (i.e. libcrypto and libssl) when compiled, however, so
distributing code linked against BoringSSL does not trigger this license:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
```

```
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


BoringSSL uses the Chromium test infrastructure to run a continuous build,
trybots etc. The scripts which manage this, and the script for generating
 build
metadata, are under the Chromium license. Distributing code linked against
BoringSSL does not trigger this license.

Copyright 2015 The Chromium Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




===
data-plane-api commit 911001c
COPYRIGHT: No Copyright info
LICENSE: Apache 2.0 https://github.com/envoyproxy/data-plane-api/
blob/911001cdca003337bdb93fab32740cde61bafee3/LICENSE
```

```
===
gflags @ 28f50e0
COPYRIGHT and LICENSE:
Copyright (c) 2006, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
googleapis commit 80ed4d0
COPYRIGHT: Copyright (c) 2015, Google Inc.
LICENSE: Apache 2.0 https://github.com/googleapis/googleapis/
blob/80ed4d0bbf65d57cc267dfc63bd2584557f11f9b/LICENSE



===
libcxx commit 6599cac
libcxxabi commit 9245d48

COPYRIGHT and LICENSE:
==============================================================================
libc++ License
==============================================================================

The libc++ library is dual licensed under both the University of Illinois
"BSD-Like" license and the MIT license.  As a user of this code you may
 choose
to use it under either license.  As a contributor, you agree to allow your
 code
to be used under both.

Full text of the relevant licenses is included below.

==============================================================================
```

```
University of Illinois/NCSA
Open Source License

Copyright (c) 2009-2017 by the contributors listed in CREDITS.TXT

All rights reserved.

Developed by:

    LLVM Team

    University of Illinois at Urbana-Champaign

    http://llvm.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 with
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimers.

    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimers in the
      documentation and/or other materials provided with the distribution.

    * Neither the names of the LLVM Team, University of Illinois at
      Urbana-Champaign, nor the names of its contributors may be used to
      endorse or promote products derived from this Software without
 specific
      prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH
 THE
SOFTWARE.

==============================================================================

Copyright (c) 2009-2014 by the contributors listed in CREDITS.TXT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
```

```
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.




===
objective_c/Cronet

COPYRIGHT and LICENSE:
// Copyright 2016 The Chromium Authors. All rights reserved.
// Use of this source code is governed by a BSD-style license that can be
// found in the LICENSE file.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 with
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimers.

    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimers in the
      documentation and/or other materials provided with the distribution.

    * Neither the names of the LLVM Team, University of Illinois at
      Urbana-Champaign, nor the names of its contributors may be used to
      endorse or promote products derived from this Software without
 specific
      prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH
 THE
SOFTWARE.




===
protoc-gen-validate commit e143189
COPYRIGHT: Copyright 2019 Envoy Project Authors
```

```
LICENSE: Apache 2.0 https://github.com/envoyproxy/protoc-gen-validate/blob/
e143189bf6f37b3957fb31743df6a1bcf4a8c685/LICENSE


===
rake-compiler-dock 0.7.0
COPYRIGHT and LICENSE:
Copyright (c) 2015 Lars Kanis

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.




===
upb commit fa88c60
COPYRIGHT and LICENSE:
Copyright (c) 2009-2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of Google Inc. nor the names of any other
      contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY GOOGLE INC. ``AS IS'' AND ANY EXPRESS OR
 IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL GOOGLE INC. BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
```

```
POSSIBILITY OF SUCH DAMAGE.
```

Provider: The gRPC Authors / Component(s): grpc 1.23.0

```
grpc 1.20.1
COPYRIGHT: Copyright 2014 gRPC authors.
LICENSE: Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
            do not modify the License. You may add Your own attribution
            notices within Derivative Works that You distribute, alongside
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.

        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.

    5. Submission of Contributions. Unless You explicitly state otherwise,
       any Contribution intentionally submitted for inclusion in the Work
       by You to the Licensor shall be under the terms and conditions of
       this License, without any additional terms or conditions.
       Notwithstanding the above, nothing herein shall supersede or modify
       the terms of any separate license agreement you may have executed
       with Licensor regarding such Contributions.

    6. Trademarks. This License does not grant permission to use the trade
       names, trademarks, service marks, or product names of the Licensor,
       except as required for reasonable and customary use in describing the
       origin of the Work and reproducing the content of the NOTICE file.

    7. Disclaimer of Warranty. Unless required by applicable law or
       agreed to in writing, Licensor provides the Work (and each
       Contributor provides its Contributions) on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
       implied, including, without limitation, any warranties or conditions
       of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
       PARTICULAR PURPOSE. You are solely responsible for determining the
       appropriateness of using or redistributing the Work and assume any
       risks associated with Your exercise of permissions under this License.

    8. Limitation of Liability. In no event and under no legal theory,
       whether in tort (including negligence), contract, or otherwise,
       unless required by applicable law (such as deliberate and grossly
       negligent acts) or agreed to in writing, shall any Contributor be
       liable to You for damages, including any direct, indirect, special,
       incidental, or consequential damages of any character arising as a
       result of this License or out of the use or inability to use the
       Work (including but not limited to damages for loss of goodwill,
       work stoppage, computer failure or malfunction, or any and all
       other commercial damages or losses), even if such Contributor
       has been advised of the possibility of such damages.

    9. Accepting Warranty or Additional Liability. While redistributing
       the Work or Derivative Works thereof, You may choose to offer,
       and charge a fee for, acceptance of support, warranty, indemnity,
       or other liability obligations and/or rights consistent with this
       License. However, in accepting such obligations, You may act only
       on Your own behalf and on Your sole responsibility, not on behalf
       of any other Contributor, and only if You agree to indemnify,
       defend, and hold each Contributor harmless for any liability
       incurred by, or claims asserted against, such Contributor by reason
       of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



*****************************
```

```
4P Dependencies:
******************************


c-ares 1.50
COPYRIGHT and LICENSE:
Copyright (c) 2007 - 2018, Daniel Stenberg with many contributors, see
 AUTHORS file.

Copyright 1998 by the Massachusetts Institute of Technology.

Permission to use, copy, modify, and distribute this software and its
 documentation for any purpose and without fee is hereby granted, provided
 that the above copyright notice appear in all copies and that both
 that copyright notice and this permission notice appear in supporting
 documentation, and that the name of M.I.T. not be used in advertising or
 publicity pertaining to distribution of the software without specific,
 written prior permission. M.I.T. makes no representations about the
 suitability of this software for any purpose. It is provided "as is"
 without express or implied warranty.



===
google-protobuf 3.6.1
COPYRIGHT and LICENSE:
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.



===
googletest 1.8.1
COPYRIGHT and LICENSE:
```

```
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
zlib 1.2.11
COPYRIGHT and LICENSE:

 (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not*
 receiving
lengthy legal documents to sign.  The sources are provided for free but
 without
warranty of any kind.  The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include third-party code.
```

```
If you redistribute modified sources, we would appreciate that you include
 in
the file ChangeLog history information documenting your changes.  Please
 read
the FAQ for more information on the distribution of modified source
 versions.



===
address_sorting 1.82
COPYRIGHT and LICENSE:
Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.


===
nanopb 0.3.6
COPYRIGHT and LICENSE:
Copyright (c) 2011 Petteri Aimonen <jpa at nanopb.mail.kapsi.fi>

This software is provided 'as-is', without any express or
implied warranty. In no event will the authors be held liable
for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any
purpose, including commercial applications, and to alter it and
redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software. If you use
   this software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and
   must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source
distribution.
```

```
==========================================
Dependencies listed in github but not used:


abseil-cpp @ commit cc4bed2
COPYRIGHT: Copyright 2017 - 2019 The Abseil Authors.
LICENSE: Apache 2.0 https://github.com/abseil/abseil-cpp/blob/
cc4bed2d74f7c8717e31f9579214ab52a9c9c610/LICENSE


===
benchmark commit e776aa0
COPYRIGHT: Copyright 2018 Google Inc. All rights reserved.
LICENSE: Apache 2.0 https://github.com/google/benchmark/blob/
e776aa0275e293707b6a0901e0e8d8a8a3679508/LICENSE


===
bloaty commit 73594cd
COPYRIGHT: Copyright 2016 Google Inc. All Rights Reserved.
LICENSE: Apache 2.0 https://github.com/google/bloaty/
blob/73594cde8c9a52a102c4341c244c833aa61b9c06/LICENSE


===
boringssl commit b29b21a
boringssl-with-bazel commit afc30d4

COPYRIGHT and LICENSE:
BoringSSL is a fork of OpenSSL. As such, large parts of it fall under
 OpenSSL
licensing. Files that are completely new have a Google copyright and an ISC
license. This license is reproduced at the bottom of this file.

Contributors to BoringSSL are required to follow the CLA rules for Chromium:
https://cla.developers.google.com/clas

Files in third_party/ have their own licenses, as described therein. The MIT
license, for third_party/fiat, which, unlike other third_party directories,
 is
compiled into non-test libraries, is included below.

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of
 the
OpenSSL License and the original SSLeay license apply to the toolkit. See
 below
for the actual license texts. Actually both licenses are BSD-style Open
 Source
licenses. In case of any license issues related to OpenSSL please contact
openssl-core@openssl.org.

The following are Google-internal bug numbers where explicit permission from
some authors is recorded for use of their work. (This is purely for our own
record keeping.)
  27287199
  27287880
  27287883

  OpenSSL License
  ---------------
```

```
/* ====================================================================
 * Copyright (c) 1998-2011 The OpenSSL Project.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
 * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 * ====================================================================
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com).  This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 *
 */

 Original SSLeay License
 -----------------------

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
```

```
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to.  The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given
 attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    "This product includes cryptographic software written by
 *     Eric Young (eay@cryptsoft.com)"
 *    The word 'cryptographic' can be left out if the rouines from the
 library
 *    being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof)
 from
 *    the apps directory (application code) you must include an
 acknowledgement:
 *    "This product includes software written by Tim Hudson
 (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
 * The licence and distribution terms for any publically available version
 or
 * derivative of this code cannot be changed.  i.e. this code cannot simply
 be
 * copied and put under another distribution licence
 * [including the GNU Public Licence.]
 */


ISC license used for completely new code in BoringSSL:

/* Copyright (c) 2015, Google Inc.
```

```
 *
 * Permission to use, copy, modify, and/or distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
 ANY
 * SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 ACTION
 * OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
 * CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. */


The code in third_party/fiat carries the MIT license:

Copyright (c) 2015-2016 the fiat-crypto authors (see
https://github.com/mit-plv/fiat-crypto/blob/master/AUTHORS).

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Licenses for support code
-------------------------

Parts of the TLS test suite are under the Go license. This code is not
 included
in BoringSSL (i.e. libcrypto and libssl) when compiled, however, so
distributing code linked against BoringSSL does not trigger this license:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
```

```
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


BoringSSL uses the Chromium test infrastructure to run a continuous build,
trybots etc. The scripts which manage this, and the script for generating
 build
metadata, are under the Chromium license. Distributing code linked against
BoringSSL does not trigger this license.

Copyright 2015 The Chromium Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




===
data-plane-api commit 911001c
COPYRIGHT: No Copyright info
LICENSE: Apache 2.0 https://github.com/envoyproxy/data-plane-api/
blob/911001cdca003337bdb93fab32740cde61bafee3/LICENSE



===
```

```
gflags @ 28f50e0
COPYRIGHT and LICENSE:
Copyright (c) 2006, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



===
googleapis commit 80ed4d0
COPYRIGHT: Copyright (c) 2015, Google Inc.
LICENSE: Apache 2.0 https://github.com/googleapis/googleapis/
blob/80ed4d0bbf65d57cc267dfc63bd2584557f11f9b/LICENSE



===
libcxx commit 6599cac
libcxxabi commit 9245d48

COPYRIGHT and LICENSE:
==============================================================================
libc++ License
==============================================================================

The libc++ library is dual licensed under both the University of Illinois
"BSD-Like" license and the MIT license.  As a user of this code you may
 choose
to use it under either license.  As a contributor, you agree to allow your
 code
to be used under both.

Full text of the relevant licenses is included below.

==============================================================================

University of Illinois/NCSA
Open Source License
```

```
Copyright (c) 2009-2017 by the contributors listed in CREDITS.TXT

All rights reserved.

Developed by:

    LLVM Team

    University of Illinois at Urbana-Champaign

    http://llvm.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 with
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimers.

    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimers in the
      documentation and/or other materials provided with the distribution.

    * Neither the names of the LLVM Team, University of Illinois at
      Urbana-Champaign, nor the names of its contributors may be used to
      endorse or promote products derived from this Software without
 specific
      prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH
 THE
SOFTWARE.

==============================================================================

Copyright (c) 2009-2014 by the contributors listed in CREDITS.TXT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.




===
objective_c/Cronet

COPYRIGHT and LICENSE:
// Copyright 2016 The Chromium Authors. All rights reserved.
// Use of this source code is governed by a BSD-style license that can be
// found in the LICENSE file.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 with
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimers.

    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimers in the
      documentation and/or other materials provided with the distribution.

    * Neither the names of the LLVM Team, University of Illinois at
      Urbana-Champaign, nor the names of its contributors may be used to
      endorse or promote products derived from this Software without
 specific
      prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH
 THE
SOFTWARE.




===
protoc-gen-validate commit e143189
COPYRIGHT: Copyright 2019 Envoy Project Authors
LICENSE: Apache 2.0 https://github.com/envoyproxy/protoc-gen-validate/blob/
e143189bf6f37b3957fb31743df6a1bcf4a8c685/LICENSE
```

```
===
rake-compiler-dock 0.7.0
COPYRIGHT and LICENSE:
Copyright (c) 2015 Lars Kanis

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.




===
upb commit fa88c60
COPYRIGHT and LICENSE:
Copyright (c) 2009-2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of Google Inc. nor the names of any other
      contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY GOOGLE INC. ``AS IS'' AND ANY EXPRESS OR
 IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL GOOGLE INC. BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

Provider: The gRPC Authors / Component(s): grpc-go 1.15.0

```
go-lang grpc 1.15.0

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.


-----------------

github.com/golang/protobuf v1.1.0
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
golang.org/x/net version 1c05540f6879653db88113bc4a2b70aec4bd491f
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
```

```
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
golang.org/x/text version b19bf474d317b857955b12035d2c5acb57ce8b01
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
google.golang.org/genproto  version 32ee49c4dd805befd833990acba36cb75042378c
COPYRIGHT: Copyright 2016 Google Inc.
LICENSE: Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
```

```
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The gRPC Authors / Component(s): grpc-go 1.16.0

```
go-lang grpc 1.15.0

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.



========================================

github.com/golang/protobuf v1.1.0
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
golang.org/x/net version 1c05540f6879653db88113bc4a2b70aec4bd491f
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
golang.org/x/text version b19bf474d317b857955b12035d2c5acb57ce8b01
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
google.golang.org/genproto  version 32ee49c4dd805befd833990acba36cb75042378c
COPYRIGHT: Copyright 2016 Google Inc.
LICENSE: Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The gRPC Authors / Component(s): grpc-go 1.19.1

```
go-lang grpc 1.15.0

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.



========================================

github.com/golang/protobuf v1.1.0
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
golang.org/x/net version 1c05540f6879653db88113bc4a2b70aec4bd491f
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
golang.org/x/text version b19bf474d317b857955b12035d2c5acb57ce8b01
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
google.golang.org/genproto  version 32ee49c4dd805befd833990acba36cb75042378c
COPYRIGHT: Copyright 2016 Google Inc.
LICENSE: Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The gRPC Authors / Component(s): grpc-go 1.23.0

```
go-lang grpc 1.15.0

COPYRIGHT: Copyright 2015 gRPC authors.
LICENSE: Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.



========================================

github.com/golang/protobuf v1.1.0
COPYRIGHT and LICENSE:
Copyright 2010 The Go Authors.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
golang.org/x/net version 1c05540f6879653db88113bc4a2b70aec4bd491f
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
golang.org/x/text version b19bf474d317b857955b12035d2c5acb57ce8b01
COPYRIGHT and LICENSE:
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
google.golang.org/genproto  version 32ee49c4dd805befd833990acba36cb75042378c
COPYRIGHT: Copyright 2016 Google Inc.
LICENSE: Apache 2.0

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The gRPC Authors / Component(s): grpc-go 1.46.0

```
google.golang.org/grpc
-------- Copyrights
Copyright 2021 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2018 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2014 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2016 The gRPC Authors
Copyright 2015-2016 gRPC authors.
-------- Notices
Copyright 2014 gRPC authors.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-------- License
SPDX:Apache-2.0
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
```

```
            as part of the Derivative Works; within the Source form or
            documentation, if provided along with the Derivative Works; or,
            within a display generated by the Derivative Works, if and
            wherever such third-party notices normally appear. The contents
            of the NOTICE file are for informational purposes only and
            do not modify the License. You may add Your own attribution
            notices within Derivative Works that You distribute, alongside
            or as an addendum to the NOTICE text from the Work, provided
            that such additional attribution notices cannot be construed
            as modifying the License.
        You may add Your own copyright statement to Your modifications and
        may provide additional or different license terms and conditions
        for use, reproduction, or distribution of Your modifications, or
        for any such Derivative Works as a whole, provided Your use,
        reproduction, and distribution of the Work otherwise complies with
        the conditions stated in this License.
    5. Submission of Contributions. Unless You explicitly state otherwise,
        any Contribution intentionally submitted for inclusion in the Work
        by You to the Licensor shall be under the terms and conditions of
        this License, without any additional terms or conditions.
        Notwithstanding the above, nothing herein shall supersede or modify
        the terms of any separate license agreement you may have executed
        with Licensor regarding such Contributions.
    6. Trademarks. This License does not grant permission to use the trade
        names, trademarks, service marks, or product names of the Licensor,
        except as required for reasonable and customary use in describing the
        origin of the Work and reproducing the content of the NOTICE file.
    7. Disclaimer of Warranty. Unless required by applicable law or
        agreed to in writing, Licensor provides the Work (and each
        Contributor provides its Contributions) on an "AS IS" BASIS,
        WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
        implied, including, without limitation, any warranties or conditions
        of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
        PARTICULAR PURPOSE. You are solely responsible for determining the
        appropriateness of using or redistributing the Work and assume any
        risks associated with Your exercise of permissions under this License.
    8. Limitation of Liability. In no event and under no legal theory,
        whether in tort (including negligence), contract, or otherwise,
        unless required by applicable law (such as deliberate and grossly
        negligent acts) or agreed to in writing, shall any Contributor be
        liable to You for damages, including any direct, indirect, special,
        incidental, or consequential damages of any character arising as a
        result of this License or out of the use or inability to use the
        Work (including but not limited to damages for loss of goodwill,
        work stoppage, computer failure or malfunction, or any and all
        other commercial damages or losses), even if such Contributor
        has been advised of the possibility of such damages.
    9. Accepting Warranty or Additional Liability. While redistributing
        the Work or Derivative Works thereof, You may choose to offer,
        and charge a fee for, acceptance of support, warranty, indemnity,
        or other liability obligations and/or rights consistent with this
        License. However, in accepting such obligations, You may act only
        on Your own behalf and on Your sole responsibility, not on behalf
        of any other Contributor, and only if You agree to indemnify,
        defend, and hold each Contributor harmless for any liability
        incurred by, or claims asserted against, such Contributor by reason
        of your accepting any such warranty or additional liability.
----------------------- Dependencies Grouped by License ------------
-------- Dependency
cloud.google.com/go
-------- Copyrights
Copyright 2018 Google LLC
Copyright 2017 Google LLC
Copyright 2015 Google LLC
```

```
Copyright 2016 Google LLC
Copyright 2014 Google LLC
Copyright 2018 Google Inc. All Rights Reserved.
Copyright (c) 1996-1998 John D. Polstra.  All rights reserved.
Copyright (c) 2001 David E. O'Brien
Portions Copyright 2018 Google LLC.
Copyright 2017, Google LLC
Copyright 2017, Google Inc. All rights reserved.
-------- Dependency
github.com/census-instrumentation/opencensus-proto
-------- Copyrights
Copyright 2016-17 OpenCensus Authors
Copyright 2016-18 OpenCensus Authors
Copyright 2017 OpenCensus Authors
Copyright 2018 OpenCensus Authors
Copyright 2019 OpenCensus Authors
-------- Dependency
github.com/cncf/udpa/go
-------- Copyrights
  (no copyright notices found)
-------- Dependency
github.com/cncf/xds/go
-------- Copyrights
  (no copyright notices found)
-------- Dependency
github.com/envoyproxy/go-control-plane
-------- Copyrights
Copyright 2020 Envoyproxy Authors
Copyright 2018 Envoyproxy Authors
Copyright 2019 Envoyproxy Authors
-------- Dependency
github.com/envoyproxy/protoc-gen-validate
-------- Copyrights
Copyright 2019 Envoy Project Authors
-------- Notices
protoc-gen-validate
Copyright 2019 Envoy Project Authors
Licensed under Apache License 2.0. See LICENSE for terms.
-------- Dependency
github.com/golang/glog
-------- Copyrights
Copyright 2013 Google Inc. All Rights Reserved.
-------- Dependency
google.golang.org/genproto
-------- Copyrights
Copyright 2020 Google LLC
Copyright 2019 Google LLC.
Copyright (c) 2015, Google Inc.
Copyright 2016 Google Inc.
Copyright 2017 Google Inc.
Copyright 2018 Google Inc.
Copyright 2018 Google LLC
Copyright 2018 The Grafeas Authors. All rights reserved.
Copyright 2019 Google LLC
-------- Dependencies Summary
cloud.google.com/go
github.com/census-instrumentation/opencensus-proto
github.com/cncf/udpa/go
github.com/cncf/xds/go
github.com/envoyproxy/go-control-plane
github.com/envoyproxy/protoc-gen-validate
github.com/golang/glog
google.golang.org/genproto
-------- License used by Dependencies
```

```
SPDX:Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
------------------------ Dependencies Grouped by License ------------
-------- Dependency
github.com/golang/protobuf
-------- Copyrights
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
-------- Dependency
github.com/google/go-cmp
-------- Copyrights
Copyright 2019, The Go Authors. All rights reserved.
Copyright 2021, The Go Authors. All rights reserved.
Copyright 2017, The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2020, The Go Authors. All rights reserved.
Copyright 2018, The Go Authors. All rights reserved.
-------- Dependency
github.com/google/uuid
-------- Copyrights
Copyright 2016 Google Inc.  All rights reserved.
Copyright 2018 Google Inc.  All rights reserved.
Copyright 2017 Google Inc.  All rights reserved.
Copyright (c) 2009,2014 Google Inc. All rights reserved.
-------- Dependency
golang.org/x/net
-------- Copyrights
Copyright 2016 The Go Authors. All rights reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
```

```
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright (C) 2009 Apple Inc. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)
"This implementation" means the copyrightable works distributed by
Google as part of the Go project.
Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
-------- Dependency
golang.org/x/oauth2
-------- Copyrights
Copyright 2017 The oauth2 Authors. All rights reserved.
Copyright 2015 The oauth2 Authors. All rights reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The oauth2 Authors. All rights reserved.
-------- Dependency
golang.org/x/text
-------- Copyrights
Copyright 2014 The Go Authors. All rights reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)
"This implementation" means the copyrightable works distributed by
Google as part of the Go project.
Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
```

```
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
-------- Dependency
google.golang.org/protobuf
-------- Copyrights
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
-------- Patents
Additional IP Rights Grant (Patents)
"This implementation" means the copyrightable works distributed by
Google as part of the Go project.
Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
-------- Dependencies Summary
github.com/golang/protobuf
github.com/google/go-cmp
github.com/google/uuid
golang.org/x/net
golang.org/x/oauth2
golang.org/x/text
google.golang.org/protobuf
-------- License used by Dependencies
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
```

```
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/cespare/xxhash/v2
-------- Copyrights
Copyright (c) 2016 Caleb Spare
-------- Dependencies Summary
github.com/cespare/xxhash/v2
-------- License used by Dependencies
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: d740393af8d16c32f39bfa619c1e0666
```

Provider: The gRPC Authors / Component(s): grpc-go 1.50.1

```
grpc-go

------------------------------ Top-Level License
 -------------------------------
SPDX:Apache-2.0

---------------------------------- Copyright
 -----------------------------------
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
```

```
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.

-------------------------- Fourth Party Dependencies
 ---------------------------

----------------------------------- Licenses
 -----------------------------------
-  Apache-2.0
-  BSD-3-Clause
-  BSD-3-Clause--modified-by-Google
-  MIT

--------------------------------- (separator)
 ----------------------------------

== Dependency
cloud.google.com/go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 1996-1998 John D. Polstra.  All rights reserved.
Copyright (c) 2001 David E. O'Brien
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 Google, Inc. Package foo does bar.", 27, ""},
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 Google LLC
Copyright 2016 Google LLC
Copyright 2017 Google LLC
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 Google Inc. All Rights Reserved.
Copyright 2018 Google LLC
Copyright 2018 Google LLC.
Copyright 2019 Google LLC
Copyright 2020 Google LLC
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2020, Google LLC
Copyright 2021 Google LLC

--------------------------------- (separator)
 ----------------------------------

== Dependency
cloud.google.com/go/logging

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 Google LLC
Copyright 2017 Google LLC
Copyright 2018 Google LLC
```

```
Copyright 2019 Google LLC
Copyright 2020 Google LLC
Copyright 2021 Google LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
cloud.google.com/go/monitoring

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 Google LLC
Copyright 2020 Google LLC
Copyright 2021 Google LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
cloud.google.com/go/trace

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 Google LLC
Copyright 2019 Google LLC
Copyright 2020 Google LLC
Copyright 2021 Google LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
contrib.go.opencensus.io/exporter/stackdriver

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017, OpenCensus Authors
Copyright 2018, OpenCensus Authors
Copyright 2019, OpenCensus Authors
Copyright 2020, OpenCensus Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/antlr/antlr4/runtime/Go/antlr

== License Type
SPDX:BSD-3-Clause

== Copyright
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
Copyright 2021 The ANTLR Project

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
github.com/aws/aws-sdk-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2016 Carl Jackson
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014-2015 Stripe, Inc.
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2017 Amazon.com, Inc. or its affiliates. All Rights Reserved.

== Notices
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/census-instrumentation/opencensus-proto

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016-18, OpenCensus Authors
Copyright 2017, OpenCensus Authors
Copyright 2018, OpenCensus Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/cespare/xxhash/v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Caleb Spare

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/cncf/udpa/go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2014 gRPC authors.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
```

```
Copyright (c) 2017 HashiCorp
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/cncf/xds/go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2014 gRPC authors.
Copyright (c) 2006, 2008 Junio C Hamano
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Copyright (c) 2013 Fatih Arslan
Copyright (c) 2016 Mitchell Hashimoto
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) 2017 HashiCorp
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/envoyproxy/go-control-plane

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 Envoyproxy Authors
Copyright 2019 Envoyproxy Authors
Copyright 2020 Envoyproxy Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/envoyproxy/protoc-gen-validate

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 Envoy Project Authors

== Notices
protoc-gen-validate
Copyright 2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/golang/glog

== License Type
```

```
SPDX:Apache-2.0

== Copyright
Copyright 2013 Google Inc. All Rights Reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/golang/groupcache

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012 Google Inc.
Copyright 2013 Google Inc.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/golang/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/google/cel-go

== License Type

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

==============================================================================
The common/types/pb/equal.go modification of proto.Equal logic
==============================================================================
Copyright (c) 2018 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2018 Google LLC
Copyright 2019 Google LLC
Copyright 2020 Google LLC
Copyright 2021 Google LLC
Copyright 2022 Google LLC

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/go-cmp

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2017, The Go Authors. All rights reserved.
Copyright 2018, The Go Authors. All rights reserved.
Copyright 2019, The Go Authors. All rights reserved.
Copyright 2020, The Go Authors. All rights reserved.
Copyright 2021, The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/uuid

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
```

```
Copyright (c) 2009,2014 Google Inc. All rights reserved.
Copyright 2016 Google Inc.  All rights reserved.
Copyright 2017 Google Inc.  All rights reserved.
Copyright 2018 Google Inc.  All rights reserved.
Copyright 2021 Google Inc.  All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/googleapis/gax-go/v2

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright 2016, Google Inc.
Copyright 2018, Google Inc.
Copyright 2019, Google Inc.
Copyright 2021 Google LLC
Copyright 2021, Google Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/jmespath/go-jmespath

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 James Saryerwinnie

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/prometheus

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
Copyright (c) 2013, The GoGo Authors.
Copyright (c) 2014 Ben Johnson
Copyright 2009 Chris Wanstrath (Ruby)
Copyright 2009 The Go Authors, 2011 Miek Gieben
Copyright 2010-2014 Jan Lehnardt (JavaScript)
Copyright 2010-2015 The mustache.js community
Copyright 2011 The Snappy-Go Authors
Copyright 2011-2014 Twitter, Inc.
Copyright 2011-2014 by Shutterstock Images, LLC
Copyright 2012 Matt York
Copyright 2012 Suryandaru Triandana
Copyright 2012-2015 The Prometheus Authors
Copyright 2013 Google Inc.
Copyright 2013 Matt T. Proud
Copyright 2013 The Prometheus Authors
Copyright 2014 Bass Jobsen @bassjobsen
Copyright 2014 The Prometheus Authors
Copyright 2015 Jonathan Peterson (@Eonasdan)
Copyright 2015 The Prometheus Authors
```

```
Copyright 2016 The Prometheus Authors
Copyright 2017 The OMetheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors

== Notices
The Prometheus systems and service monitoring server
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


The following components are included in this product:

Bootstrap
http://getbootstrap.com
Copyright 2011-2014 Twitter, Inc.
Licensed under the MIT License

bootstrap3-typeahead.js
https://github.com/bassjobsen/Bootstrap-3-Typeahead
Original written by @mdo and @fat
Copyright 2014 Bass Jobsen @bassjobsen
Licensed under the Apache License, Version 2.0

fuzzy
https://github.com/mattyork/fuzzy
Original written by @mattyork
Copyright 2012 Matt York
Licensed under the MIT License

bootstrap-datetimepicker.js
https://github.com/Eonasdan/bootstrap-datetimepicker
Copyright 2015 Jonathan Peterson (@Eonasdan)
Licensed under the MIT License

moment.js
https://github.com/moment/moment/
Copyright JS Foundation and other contributors
Licensed under the MIT License

Rickshaw
https://github.com/shutterstock/rickshaw
Copyright 2011-2014 by Shutterstock Images, LLC
See https://github.com/shutterstock/rickshaw/blob/master/LICENSE for license
 details

mustache.js
https://github.com/janl/mustache.js
Copyright 2009 Chris Wanstrath (Ruby)
Copyright 2010-2014 Jan Lehnardt (JavaScript)
Copyright 2010-2015 The mustache.js community
Licensed under the MIT License

jQuery
https://jquery.org
Copyright jQuery Foundation and other contributors
Licensed under the MIT License

Protocol Buffers for Go with Gadgets
http://github.com/gogo/protobuf/
Copyright (c) 2013, The GoGo Authors.
See source code for license details.
```

```
Go support for leveled logs, analogous to
https://code.google.com/p/google-glog/
Copyright 2013 Google Inc.
Licensed under the Apache License, Version 2.0

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0

DNS library in Go
http://miek.nl/posts/2014/Aug/16/go-dns-package/
Copyright 2009 The Go Authors, 2011 Miek Gieben
See https://github.com/miekg/dns/blob/master/LICENSE for license details.

LevelDB key/value database in Go
https://github.com/syndtr/goleveldb
Copyright 2012 Suryandaru Triandana
See https://github.com/syndtr/goleveldb/blob/master/LICENSE for license
 details.

gosnappy - a fork of code.google.com/p/snappy-go
https://github.com/syndtr/gosnappy
Copyright 2011 The Snappy-Go Authors
See https://github.com/syndtr/gosnappy/blob/master/LICENSE for license
 details.

go-zookeeper - Native ZooKeeper client for Go
https://github.com/samuel/go-zookeeper
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
See https://github.com/samuel/go-zookeeper/blob/master/LICENSE for license
 details.


--------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/stoewer/go-strcase

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017, A. Stoewer <adrian.stoewer@rz.ifi.lmu.de>
Copyright (c) 2017, Adrian Stoewer <adrian.stoewer@rz.ifi.lmu.de>

--------------------------------- (separator)
 ----------------------------------

== Dependency
go.opencensus.io

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017, OpenCensus Authors
Copyright 2018, OpenCensus Authors
Copyright 2019, OpenCensus Authors
Copyright 2020, OpenCensus Authors
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/crypto

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/net

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
```

```
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/oauth2

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2015 The oauth2 Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2017 The oauth2 Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The oauth2 Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sync

== License Type
```

```
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
```

```
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
```

```
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
google.golang.org/api

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2011 Google Inc. All rights reserved.
Copyright (c) 2013 Joshua Tacoma. All rights reserved.
Copyright 2011 Google LLC. All rights reserved.
Copyright 2012 Google LLC. All rights reserved.
Copyright 2013 Google LLC. All rights reserved.
Copyright 2013 Joshua Tacoma. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 Google LLC
Copyright 2015 Google LLC.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google LLC
Copyright 2016 Google LLC.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google LLC.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 Google LLC
Copyright 2018 Google LLC.
Copyright 2018 Google LLC. All rights reserved.
Copyright 2019 Google LLC.
Copyright 2019 Google LLC. All rights reserved.
Copyright 2020 Google LLC.
Copyright 2020 Google LLC. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 Google LLC.
Copyright 2021 Google LLC. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
google.golang.org/genproto

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2015, Google Inc.
Copyright 2015 Google LLC
Copyright 2016 Google Inc.
Copyright 2016 Google LLC
Copyright 2017 Google Inc.
Copyright 2018 Google Inc.
Copyright 2018 Google LLC
Copyright 2018 The Grafeas Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 Google LLC.
Copyright 2020 Google LLC
Copyright 2020 Google LLC.
Copyright 2021 Google LLC
```

```
Copyright 2021 Google LLC.

---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/cmd/protoc-gen-go-grpc

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/examples

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
```

```
Copyright 2022 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/gcp/observability

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/security/advancedtls
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/security/advancedtls/examples

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/security/authorization

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/test/tools

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
```

```
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
```

```
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


----------------------------------- Licenses
 -----------------------------------

---------------------------------- (separator)
 ----------------------------------
== SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.
```

```
"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
```

```
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by
 You to the Licensor shall be under the terms and conditions of this
 License, without any additional terms or conditions. Notwithstanding the
 above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may have executed with Licensor regarding such
 Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
```

```
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.



---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: The gRPC Authors / Component(s): grpc-go 1.62.1

```
------------------------------ Top-Level License
 -------------------------------
SPDX:Apache-2.0

---------------------------------- Copyright
 ----------------------------------
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.

----------------------------------- Notices
 -----------------------------------
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


-------------------------- Fourth Party Dependencies
 --------------------------

----------------------------------- Licenses
 -----------------------------------
-  Apache-2.0
```

```
-  BSD-3-Clause
-  BSD-3-Clause--modified-by-Google
-  MIT

---------------------------------- (separator)
 ----------------------------------

== Dependency
cloud.google.com/go/compute/metadata

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Google LLC
Copyright 2016 Google LLC
Copyright 2018 Google LLC
Copyright 2021 Google LLC
Copyright 2022 Google LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
cloud.google.com/go/logging

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 Google LLC
Copyright 2017 Google LLC
Copyright 2018 Google LLC
Copyright 2020 Google LLC
Copyright 2021 Google LLC
Copyright 2022 Google LLC
Copyright 2023 Google LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
cloud.google.com/go/longrunning

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 Google LLC
Copyright 2020 Google LLC
Copyright 2020, Google LLC
Copyright 2022 Google LLC
Copyright 2023 Google LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
cloud.google.com/go/monitoring

== License Type
SPDX:Apache-2.0

== Copyright
```

```
Copyright 2018 Google LLC
Copyright 2020 Google LLC
Copyright 2021 Google LLC
Copyright 2022 Google LLC
Copyright 2023 Google LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
cloud.google.com/go/trace

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 Google LLC
Copyright 2020 Google LLC
Copyright 2022 Google LLC
Copyright 2023 Google LLC

---------------------------------- (separator)
 ----------------------------------

== Dependency
contrib.go.opencensus.io/exporter/stackdriver

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017, OpenCensus Authors
Copyright 2018, OpenCensus Authors
Copyright 2019, OpenCensus Authors
Copyright 2020, OpenCensus Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/antlr4-go/antlr/v4

== License Type
Copyright (c) 2012-2023 The ANTLR Project. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither name of copyright holders nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR
```

```
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012-2022 The ANTLR Project. All rights reserved.
Copyright (c) 2012-2023 The ANTLR Project. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/aws/aws-sdk-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2016 Carl Jackson
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014-2015 Stripe, Inc.
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2017 Amazon.com, Inc. or its affiliates. All Rights Reserved.

== Notices
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/census-instrumentation/opencensus-proto

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016-18, OpenCensus Authors
Copyright 2017, OpenCensus Authors
Copyright 2018, OpenCensus Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/cespare/xxhash/v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Caleb Spare
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/cncf/udpa/go

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/cncf/xds/go

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/envoyproxy/go-control-plane

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 Envoyproxy Authors
Copyright 2019 Envoyproxy Authors
Copyright 2020 Envoyproxy Authors
Copyright 2022 Envoyproxy Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/envoyproxy/protoc-gen-validate

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/felixge/httpsnoop

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Felix Geisendörfer (felix@debuggable.com)
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-logr/logr

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 The logr Authors.
Copyright 2020 The logr Authors.
Copyright 2021 The logr Authors.
Copyright 2022 The logr Authors.
Copyright 2023 The logr Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-logr/stdr

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 The logr Authors.
Copyright 2021 The logr Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang/glog

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2023 Google Inc. All Rights Reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang/groupcache

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012 Google Inc.
Copyright 2013 Google Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
```

```
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/cel-go

== License Type

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
```

```
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
```

```
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

==============================================================================
The common/types/pb/equal.go modification of proto.Equal logic
==============================================================================
Copyright (c) 2018 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
== Copyright
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2018 Google LLC
Copyright 2019 Google LLC
Copyright 2020 Google LLC
Copyright 2021 Google LLC
Copyright 2022 Google LLC
Copyright 2023 Google LLC

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/go-cmp

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2017, The Go Authors. All rights reserved.
Copyright 2018, The Go Authors. All rights reserved.
Copyright 2019, The Go Authors. All rights reserved.
Copyright 2020, The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/s2a-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2021 Google LLC
Copyright 2022 Google LLC
Copyright 2023 Google LLC

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/uuid

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009,2014 Google Inc. All rights reserved.
Copyright 2016 Google Inc.  All rights reserved.
Copyright 2017 Google Inc.  All rights reserved.
Copyright 2018 Google Inc.  All rights reserved.
Copyright 2021 Google Inc.  All rights reserved.
Copyright 2023 Google Inc.  All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/googleapis/enterprise-certificate-proxy

== License Type
```

```
SPDX:Apache-2.0

== Copyright
Copyright 2022 Google LLC.
Copyright 2023 Google LLC.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/googleapis/gax-go/v2

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright 2016, Google Inc.
Copyright 2018, Google Inc.
Copyright 2019, Google Inc.
Copyright 2021 Google LLC
Copyright 2021, Google Inc.
Copyright 2022 Google LLC
Copyright 2022, Google Inc.
Copyright 2023, Google Inc.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/jmespath/go-jmespath

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 James Saryerwinnie

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/prometheus/prometheus

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
Copyright (c) 2013, The GoGo Authors.
Copyright (c) 2014 Ben Johnson
Copyright 2009 Chris Wanstrath (Ruby)
Copyright 2009 The Go Authors, 2011 Miek Gieben
Copyright 2010-2014 Jan Lehnardt (JavaScript)
Copyright 2010-2015 The mustache.js community
Copyright 2011 The Snappy-Go Authors
Copyright 2011-2014 Twitter, Inc.
Copyright 2011-2014 by Shutterstock Images, LLC
Copyright 2012 Matt York
Copyright 2012 Suryandaru Triandana
Copyright 2012-2015 The Prometheus Authors
Copyright 2013 Google Inc.
Copyright 2013 Matt T. Proud
Copyright 2013 The Prometheus Authors
Copyright 2014 Bass Jobsen @bassjobsen
```

```
Copyright 2014 The Prometheus Authors
Copyright 2015 Jonathan Peterson (@Eonasdan)
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2017 The OMetheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors

== Notices
The Prometheus systems and service monitoring server
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


The following components are included in this product:

Bootstrap
http://getbootstrap.com
Copyright 2011-2014 Twitter, Inc.
Licensed under the MIT License

bootstrap3-typeahead.js
https://github.com/bassjobsen/Bootstrap-3-Typeahead
Original written by @mdo and @fat
Copyright 2014 Bass Jobsen @bassjobsen
Licensed under the Apache License, Version 2.0

fuzzy
https://github.com/mattyork/fuzzy
Original written by @mattyork
Copyright 2012 Matt York
Licensed under the MIT License

bootstrap-datetimepicker.js
https://github.com/Eonasdan/bootstrap-datetimepicker
Copyright 2015 Jonathan Peterson (@Eonasdan)
Licensed under the MIT License

moment.js
https://github.com/moment/moment/
Copyright JS Foundation and other contributors
Licensed under the MIT License

Rickshaw
https://github.com/shutterstock/rickshaw
Copyright 2011-2014 by Shutterstock Images, LLC
See https://github.com/shutterstock/rickshaw/blob/master/LICENSE for license
 details

mustache.js
https://github.com/janl/mustache.js
Copyright 2009 Chris Wanstrath (Ruby)
Copyright 2010-2014 Jan Lehnardt (JavaScript)
Copyright 2010-2015 The mustache.js community
Licensed under the MIT License

jQuery
https://jquery.org
Copyright jQuery Foundation and other contributors
Licensed under the MIT License

Protocol Buffers for Go with Gadgets
```

```
http://github.com/gogo/protobuf/
Copyright (c) 2013, The GoGo Authors.
See source code for license details.

Go support for leveled logs, analogous to
https://code.google.com/p/google-glog/
Copyright 2013 Google Inc.
Licensed under the Apache License, Version 2.0

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0

DNS library in Go
http://miek.nl/posts/2014/Aug/16/go-dns-package/
Copyright 2009 The Go Authors, 2011 Miek Gieben
See https://github.com/miekg/dns/blob/master/LICENSE for license details.

LevelDB key/value database in Go
https://github.com/syndtr/goleveldb
Copyright 2012 Suryandaru Triandana
See https://github.com/syndtr/goleveldb/blob/master/LICENSE for license
 details.

gosnappy - a fork of code.google.com/p/snappy-go
https://github.com/syndtr/gosnappy
Copyright 2011 The Snappy-Go Authors
See https://github.com/syndtr/gosnappy/blob/master/LICENSE for license
 details.

go-zookeeper - Native ZooKeeper client for Go
https://github.com/samuel/go-zookeeper
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
See https://github.com/samuel/go-zookeeper/blob/master/LICENSE for license
 details.


--------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/stoewer/go-strcase

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017, A. Stoewer <adrian.stoewer@rz.ifi.lmu.de>
Copyright (c) 2017, Adrian Stoewer <adrian.stoewer@rz.ifi.lmu.de>

--------------------------------- (separator)
 ----------------------------------

== Dependency
go.opencensus.io

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017, OpenCensus Authors
Copyright 2018, OpenCensus Authors
Copyright 2019, OpenCensus Authors
```

```
Copyright 2020, OpenCensus Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/contrib/instrumentation/google.golang.org/grpc/otelgrpc

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/contrib/instrumentation/net/http/otelhttp

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/metric

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.opentelemetry.io/otel/trace

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
golang.org/x/crypto

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright (c) 2021 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/exp

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
```

```
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/net

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
```

```
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/oauth2

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2015 The oauth2 Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2017 The oauth2 Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The oauth2 Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sync

== License Type
SPDX:BSD-3-Clause--modified-by-Google
```

```
== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)
```

```
"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
```

```
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/time

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
google.golang.org/api

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2011 Google Inc. All rights reserved.
Copyright (c) 2013 Joshua Tacoma. All rights reserved.
Copyright 2011 Google LLC. All rights reserved.
Copyright 2012 Google LLC. All rights reserved.
Copyright 2013 Google LLC. All rights reserved.
Copyright 2013 Joshua Tacoma. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 Google LLC
```

```
Copyright 2015 Google LLC.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 Google LLC
Copyright 2016 Google LLC.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 Google LLC.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 Google LLC
Copyright 2018 Google LLC.
Copyright 2018 Google LLC. All rights reserved.
Copyright 2019 Google LLC.
Copyright 2019 Google LLC. All rights reserved.
Copyright 2020 Google LLC.
Copyright 2020 Google LLC. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 Google LLC.
Copyright 2021 Google LLC. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 Google LLC.
Copyright 2022 Google LLC. All rights reserved.
Copyright 2023 Google LLC.
Copyright 2024 Google LLC.

---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/genproto

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2015, Google Inc.
Copyright 2016 Google Inc.
Copyright 2017 Google Inc.
Copyright 2018 Google Inc.
Copyright 2018 The Grafeas Authors. All rights reserved.
Copyright 2019 Google LLC.
Copyright 2019 The Grafeas Authors. All rights reserved.
Copyright 2020 Google LLC
Copyright 2020 Google LLC.
Copyright 2021 Google LLC
Copyright 2021 Google LLC.
Copyright 2021 The Grafeas Authors. All rights reserved.
Copyright 2022 Google LLC
Copyright 2023 Google LLC
Copyright 2023 The Grafeas Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/genproto/googleapis/api

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Google LLC
Copyright 2016 Google LLC
Copyright 2019 Google LLC.
Copyright 2022 Google LLC
Copyright 2023 Google LLC
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/genproto/googleapis/rpc

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2022 Google LLC
Copyright 2023 Google LLC

---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/cmd/protoc-gen-go-grpc

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/examples

== License Type
```

```
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/examples/features/observability

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.

== Notices
```

```
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 ----------------------------------

== Dependency
google.golang.org/grpc/gcp/observability

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 ----------------------------------

== Dependency
google.golang.org/grpc/interop/observability
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/security/advancedtls

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.
```

```
== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/security/advancedtls/examples

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/security/authorization
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/stats/opencensus

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.
```

```
== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/grpc/test/tools

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 The gRPC Authors
Copyright 2015 gRPC authors.
Copyright 2015-2016 gRPC authors.
Copyright 2016 The gRPC Authors
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 The gRPC Authors
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 The gRPC Authors
Copyright 2020 gRPC authors.
Copyright 2021 gRPC authors.
Copyright 2022 gRPC authors.
Copyright 2023 gRPC authors.
Copyright 2024 gRPC authors.

== Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 -----------------------------------

== Dependency
```

```
google.golang.org/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


------------------------------------ Licenses
 -----------------------------------

---------------------------------- (separator)
 ----------------------------------
== SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.
```

```
"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.
```

```
3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by
 You to the Licensor shall be under the terms and conditions of this
 License, without any additional terms or conditions. Notwithstanding the
```

```
 above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may have executed with Licensor regarding such
 Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.



---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: The gRPC Authors / Component(s): grpcio-tools 1.62.2

```
------------------------------- Top-level license -------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------------------------------------

BSD 3-Clause License

Copyright 2016, Google Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

Mozilla Public License Version 2.0
==================================

1. Definitions
```

```
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

     (a) any file in Source Code Form that results from an addition to,
         deletion from, or modification of the contents of Covered
         Software; or

     (b) any new file in Source Code Form that contains any Covered
         Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
```

```
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).
```

```
2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).
```

```
3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.
```

```
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------
```

```
10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

===========================================================================
------------------------------- Copyright notices --------------------------
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
```

```
limitations under the License.

==============================================================================
---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 1
grpcio

== License
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
```

```
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
```

```
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
```

```
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

------------------------------------------------------------

BSD 3-Clause License

Copyright 2016, Google Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.
```

```
1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or

     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
    means any of the following:

     (a) any file in Source Code Form that results from an addition to,
         deletion from, or modification of the contents of Covered
         Software; or

     (b) any new file in Source Code Form that contains any Covered
         Software.

1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
```

```
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
```

```
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
```

```
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
```

```
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
```

```
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
-------------------------------------------

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

== Copyright Notices
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 2
protobuf
```

```
== License

Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

== Copyright Notices

Copyright 2008 Google Inc.  All rights reserved.

---------------------------- Fourth-party information ----------------------

== NAME OF DEPENDENCY 3
setuptools

== License

Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

== Copyright Notices

Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>
```

Provider: The gRPC Authors / Component(s): grpc-java 1.13.1

```
Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.
```

```
"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
```

```
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
```

```
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: HOW TO APPLY THE APACHE LICENSE TO YOUR WORK
To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---------------------------------------------------------------------------

This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:

  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
```

```
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-------------------------------------------------------


This product contains a modified portion of 'Netty', an open source
networking library, which can be obtained at:

  * LICENSE:
    * netty/third_party/netty/LICENSE.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://netty.io
```

```
  * LOCATION_IN_GRPC:
    * netty/third_party/netty

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."
```

```
"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.
```

```
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: HOW TO APPLY THE APACHE LICENSE TO YOUR WORK
To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: The gRPC Authors / Component(s): grpc-java 1.19.0

```
Copyright 2014 The gRPC Authors

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
```

```
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
```

```
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
---------------------------------------------------------------------------
animalsniffer_annotations: "org.codehaus.mojo:animal-sniffer-
annotations:1.17"
COPYRIGHT: Copyright (c) 2008 Kohsuke Kawaguchi and codehaus.org.
LICENSE:
 * The MIT License
 *
 * Copyright (c) 2008 Kohsuke Kawaguchi and codehaus.org.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 copy
 * of this software and associated documentation files (the "Software"), to
 deal
 * in the Software without restriction, including without limitation the
 rights
 * to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 * copies of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
```

```
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 * THE SOFTWARE.

errorprone: "com.google.errorprone:error_prone_annotations:2.2.0"
COPYRIGHT: Copyright 2015 The Error Prone Authors.
LICENSE: Apache 2.0 http://www.apache.org/licenses/LICENSE-2.0

gson: "com.google.code.gson:gson:2.7"
COPYRIGHT: Copyright (C) 2012 Google Inc.
LICENSE: Apache 2.0 https://github.com/google/gson/blob/gson-parent-2.7/
LICENSE

guava: "com.google.guava:guava:26.0-android"
COPYRIGHT: Copyright (C) 2008 The Guava Authors
LICENSE: Apache 2.0 https://github.com/google/guava/blob/v26.0/COPYING

hpack: 'com.twitter:hpack:0.10.1'
COPYRIGHT: Copyright 2014 - Present Twitter, Inc.
LICENSE: Apache 2.0 https://github.com/twitter/hpack/blob/v0.10.1/LICENSE


---
jsr305: 'com.google.code.findbugs:jsr305:3.0.2'
COPYRIGHT and LICENSE:
> Copyright (c) JSR305 expert group
> All rights reserved.
>
> Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
>
>     Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
>     Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
>
> THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
 PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
 OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

google_api_protos: 'com.google.api.grpc:proto-google-common-protos:1.12.0'
COPYRIGHT: (C) Google
LICENSE: Apache 2.0 https://libraries.io/maven/com.google.api.grpc:grpc-
google-common-protos

google_auth_credentials: "com.google.auth:google-auth-library-
credentials:0.9.0",
```

```
google_auth_oauth2_http: "com.google.auth:google-auth-library-oauth2-
http:0.9.0",
COPYRIGHT and LICENSE:
Copyright 2014, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

okhttp: 'com.squareup.okhttp:okhttp:2.5.0',
COPYRIGHT: Copyright (C) 2014 Square, Inc.
LICENSE: Apache 2.0 https://github.com/square/okhttp/blob/parent-2.5.0/
LICENSE.txt


---
okio: 'com.squareup.okio:okio:1.13.0'
COPYRIGHT: Copyright (C) 2018 Square, Inc.
LICENSE: Apache 2.0 https://github.com/square/okio/blob/okio-parent-1.13.0/
LICENSE.txt

opencensus_api: "io.opencensus:opencensus-api:0.19.2",
opencensus_contrib_grpc_metrics: "io.opencensus:opencensus-contrib-grpc-
metrics:0.19.2",
opencensus_impl: "io.opencensus:opencensus-impl:0.19.2",
opencensus_impl_lite: "io.opencensus:opencensus-impl-lite:0.19.2",
instrumentation_api: 'com.google.instrumentation:instrumentation-api:0.4.3'

COPYRIGHT: Copyright 2016 - 2018, OpenCensus Authors
LICENSE: Apache 2.0 https://github.com/census-instrumentation/opencensus-
java/blob/v0.19.2/LICENSE

protobuf: "com.google.protobuf:protobuf-java:3.6.1"
protobuf_util: "com.google.protobuf:protobuf-java-util:3.6.1"
COPYRIGHT and LICENSE:
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.


---
protobuf_lite: "com.google.protobuf:protobuf-lite:3.0.1",
protoc_lite: "com.google.protobuf:protoc-gen-javalite:3.0.0"
COPYRIGHT and LICENSE:
This license applies to all parts of Protocol Buffers except the following:

  - Atomicops support for generic gcc, located in
    src/google/protobuf/stubs/atomicops_internals_generic_gcc.h.
    This file is copyrighted by Red Hat Inc.

  - Atomicops support for AIX/POWER, located in
    src/google/protobuf/stubs/atomicops_internals_power.h.
    This file is copyrighted by Bloomberg Finance LP.

Copyright 2014, Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
```

```
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

protobuf_nano: "com.google.protobuf.nano:protobuf-javanano:3.0.0-alpha-5",
protoc_nano: "com.google.protobuf:protoc:3.5.1-1",
COPYRIGHT and LICENSE:
This license applies to all parts of Protocol Buffers except the following:

  - Atomicops support for generic gcc, located in
    src/google/protobuf/stubs/atomicops_internals_generic_gcc.h.
    This file is copyrighted by Red Hat Inc.

  - Atomicops support for AIX/POWER, located in
    src/google/protobuf/stubs/atomicops_internals_power.h.
    This file is copyrighted by Bloomberg Finance LP.

Copyright 2014, Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

protobuf_plugin: 'com.google.protobuf:protobuf-gradle-plugin:0.8.5',
COPYRIGHT and LICENSE:
Original work copyright (c) 2015, Alex Antonov. All rights reserved.
Modified work copyright (c) 2015, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
may be used to endorse or promote products derived from this software
 without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

lang: "org.apache.commons:commons-lang3:3.5"
COPYRIGHT: Copyright 2001-2016 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/commons-lang/blob/LANG_3_5/
LICENSE.txt

netty: "io.netty:netty-codec-http2:4.1.32.Final",
netty_epoll: "io.netty:netty-transport-native-epoll:4.1.32.Final" +
 epoll_suffix,
netty_proxy_handler: "io.netty:netty-handler-proxy:4.1.32.Final

COPYRIGHT:
Copyright 2014 The Netty Project
LICENSE: Apache 2.0 https://github.com/netty/netty/blob/netty-4.1.32.Final/
LICENSE.txt

NOTICE FILE:
                            The Netty Project
                            =================

Please visit the Netty web site for more information:

  * http://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
```

```
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
  * HOMEPAGE:
    * http://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/
```

```
This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools


This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/


This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
  * HOMEPAGE:
    * https://github.com/google/protobuf


This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/twitter/hpack


This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/


This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.
```

```
  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
* https://github.com/takari/maven-wrapper




---
netty_tcnative: 'io.netty:netty-tcnative-boringssl-static:2.0.20.Final',
COPYRIGHT: Copyright 2016 The Netty Project
LICENSE: Apache 2.0 https://github.com/netty/netty-tcnative/blob/netty-
tcnative-parent-2.0.20.Final/LICENSE.txt

NOTICE FILE:
                          The Netty Project
                            =================

Please visit the Netty web site for more information:

  * http://netty.io/

Copyright 2016 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

--------------------------------------------------------------------------------
This product contains a forked and modified version of Tomcat Native

  * LICENSE:
    * ASL2
  * HOMEPAGE:
    * http://tomcat.apache.org/native-doc/
    * https://svn.apache.org/repos/asf/tomcat/native/

This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
* https://github.com/takari/maven-wrapper



conscrypt: 'org.conscrypt:conscrypt-openjdk-uber:1.0.1'
COPYRIGHT: Copyright 2016 The Android Open Source Project
LICENSE: Apache 2.0 https://github.com/google/conscrypt/blob/1.0.1/LICENSE

NOTICE FILE:
```

```
This product contains a modified portion of `Netty`, a configurable network
stack in Java, which can be obtained at:

  * LICENSE:
    * licenses/LICENSE.netty.txt (Apache License 2.0)
  * HOMEPAGE:
    * http://netty.io/

This product contains a modified portion of `Apache Harmony`, modular Java
 runtime,
which can be obtained at:

  * LICENSE:
    * licenses/LICENSE.harmony.txt (Apache License 2.0)
  * HOMEPAGE:
* https://harmony.apache.org/


---
re2j: 'com.google.re2j:re2j:1.2'
COPYRIGHT and LICENSE:
This is a work derived from Russ Cox's RE2 in Go, whose license
http://golang.org/LICENSE is as follows:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.

   * Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
     distribution.

   * Neither the name of Google Inc. nor the names of its contributors
     may be used to endorse or promote products derived from this
     software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The gRPC Authors / Component(s): grpc-netty 1.33.0

```
 Hibernate ORM - hibernate-core (org.hibernate:hibernate-core)
Copyright (c) 2008, Red Hat Middleware LLC or third-party contributors
Copyright (c) 2010, Red Hat Middleware LLC or third-party contributors
Copyright (c) 2013, Red Hat Middleware LLC or third-party contributors
Copyright (c) 2015, Red Hat Middleware LLC or third-party contributors
```

```
                    GNU LESSER GENERAL PUBLIC LICENSE
                         Version 2.1, February 1999
 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.
[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]
                              Preamble
  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.
  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.
  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.
  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.
  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.
  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.
  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.
  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
```

```
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.
  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.
  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.
  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.
  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.
  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".
  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.
  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)
  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.
  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.
  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
```

```
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.
  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:
    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.
    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)
These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
  4. You may copy and distribute the Library (or a portion or
```

```
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.
  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.
  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.
  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.
  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:
    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)
    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
```

```
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.
    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.
    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.
  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:
    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.
    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.
  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.
  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
```

```
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.
  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.
  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.
                            NO WARRANTY
  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
```

```
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
                     END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries
  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).
  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>
    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.
    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.
    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
 02110-1301  USA


Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:
  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.
  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice
That's all there is to it!

*******************
antlr
License: BSD License
License: [2]
Copyright: [3]

classmate
License: Apache License Version 2.0
License: [4]
Copyright: [5]

javax.persistence-api
License: EDL 1.0 & EPL 2.0
License: [6]
Copyright: [7]
```

```
byte-buddy
License: Apache License Version 2.0
License: [4]
Copyright: [8]

dom4j
License: BSD 3-clause New License
License: [9]
Copyright: [10]

jaxb-runtime
License: Eclipse Public License Version 1.0
License: [11]
Copyright: [12]

hibernate-commons-annotations
License: LGPLv2.1
License: [13]
Copyright: [14]

javassist
License: MPL 1.1 or LGPLv2.1 or APL 2.0
License: [15]
Copyright: [16]

jandex
License: Apache License Version 2.0
License: [4]
Copyright: [17]

jboss-logging
License: Apache License Version 2.0
License: [4]
Copyright: [18]

+++++++++++++++++++++++++++++++++
++++++++++ References ++++++++++++
+++++++++++++++++++++++++++++++++

================ Start of Reference [1] ================
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
 * License: GNU Lesser General Public License (LGPL), version 2.1 or later
 * See the lgpl.txt file in the root directory or http://www.gnu.org/
licenses/lgpl-2.1.html


 */
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
 * Copyright (c) 2014, Red Hat Inc. or third-party contributors as
 * indicated by the @author tags or express copyright attribution
 * statements applied by the authors.  All third-party contributions are
 * distributed under license by Red Hat Inc.
 *
 * This copyrighted material is made available to anyone wishing to use,
 modify,


 * copy, or redistribute it subject to the terms and conditions of the GNU
 * Lesser General Public License, as published by the Free Software
 Foundation.
```

```
 *
 * This program is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 MERCHANTABILITY


 * or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU Lesser General Public
 License


 * for more details.
 *
 * You should have received a copy of the GNU Lesser General Public License
 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA  02110-1301  USA
 */
================ End of Reference [1] ================
================ Start of Reference [2] ================
[The "BSD 3-clause license"]
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holder nor the names of its
 contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
=====
MIT License for codepointat.js from https://git.io/codepointat
MIT License for fromcodepoint.js from https://git.io/vDW1m
Copyright Mathias Bynens <https://mathiasbynens.be/>
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
================ End of Reference [2] ================
================ Start of Reference [3] ================
Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
================ End of Reference [3] ================
================ Start of Reference [4] ================
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
```

```
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
```

```
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
================ End of Reference [4] ================
================ Start of Reference [5] ================
Java ClassMate library was originally written by Tatu Saloranta
 (tatu.saloranta@iki.fi)


Other developers who have contributed code are:
* Brian Langel
================ End of Reference [5] ================
================ Start of Reference [6] ================
Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
```

```
are permitted provided that the following conditions are met:
Redistributions of source code must retain the above copyright notice, this
 list

of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list

of conditions and the following disclaimer in the documentation and/or other
 materials

provided with the distribution.
Neither the name of the Eclipse Foundation, Inc. nor the names of its
 contributors

may be used to endorse or promote products derived from this software
 without specific

prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY

EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES

OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT

SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT

OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)

HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,

OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE OF

THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Eclipse Public License - v 2.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE

("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S

ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial content Distributed
 under

this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 Distributed
```

```
by that particular Contributor. A Contribution “originates” from a
 Contributor if

it was added to the Program by such Contributor itself or anyone acting on
 such Contributor's

behalf. Contributions do not include changes or additions to the Program
 that are

not Modified Works.
“Contributor” means any person or entity that Distributes the Program.
“Licensed Patents” mean patent claims licensable by a Contributor which are
 necessarily

infringed by the use or sale of its Contribution alone or when combined with
 the

Program.
“Program” means the Contributions Distributed in accordance with this
 Agreement.


“Recipient” means anyone who receives the Program under this Agreement or
 any Secondary

License (as applicable), including Contributors.
“Derivative Works” shall mean any work, whether in Source Code or other
 form, that

is based on (or derived from) the Program and for which the editorial
 revisions,

annotations, elaborations, or other modifications represent, as a whole, an
 original

work of authorship.
“Modified Works” shall mean any work in Source Code or other form that
 results from

an addition to, deletion from, or modification of the contents of the
 Program, including,

for purposes of clarity any new file in Source Code form that contains any
 contents

of the Program. Modified Works shall not include works that contain only
 declarations,

interfaces, types, classes, structures, or files of the Program solely in
 each case

in order to link to, bind by name, or subclass the Program or Modified Works
 thereof.


“Distribute” means the acts of a) distributing or b) making available in any
 manner

that enables the transfer of a copy.
“Source Code” means the form of a Program preferred for making
 modifications, including

but not limited to software source code, documentation source, and
 configuration
```

```
files.
“Secondary License” means either the GNU General Public License, Version
 2.0, or

any later versions of that license, including any exceptions or additional
 permissions

as identified by the initial Contributor.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient

a non-exclusive, worldwide, royalty-free copyright license to reproduce,
 prepare

Derivative Works of, publicly display, publicly perform, Distribute and
 sublicense

the Contribution of such Contributor, if any, and such Derivative Works.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient

a non-exclusive, worldwide, royalty-free patent license under Licensed
 Patents to

make, use, sell, offer to sell, import and otherwise transfer the
 Contribution of

such Contributor, if any, in Source Code or other form. This patent license
 shall

apply to the combination of the Contribution and the Program if, at the time
 the

Contribution is added by the Contributor, such addition of the Contribution
 causes

such combination to be covered by the Licensed Patents. The patent license
 shall

not apply to any other combinations which include the Contribution. No
 hardware per

se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its

Contributions set forth herein, no assurances are provided by any
 Contributor that

the Program does not infringe the patent or other intellectual property
 rights of

any other entity. Each Contributor disclaims any liability to Recipient for
 claims

brought by any other entity based on infringement of intellectual property
 rights

or otherwise. As a condition to exercising the rights and licenses granted
 hereunder,
```

```
each Recipient hereby assumes sole responsibility to secure any other
 intellectual

property rights needed, if any. For example, if a third party patent license
 is required

to allow Recipient to Distribute the Program, it is Recipient's
 responsibility to

acquire that license before distributing the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright

rights in its Contribution, if any, to grant the copyright license set forth
 in this

Agreement.
e) Notwithstanding the terms of any Secondary License, no Contributor makes
 additional

grants to any Recipient (other than those set forth in this Agreement) as a
 result

of such Recipient's receipt of the Program under the terms of a Secondary
 License

(if permitted under the terms of Section 3).
3. REQUIREMENTS
3.1 If a Contributor Distributes the Program in any form, then:
a) the Program must also be made available as Source Code, in accordance
 with section

3.2, and the Contributor must accompany the Program with a statement that
 the Source

Code for the Program is available under this Agreement, and informs
 Recipients how

to obtain it in a reasonable manner on or through a medium customarily used
 for software

exchange; and
b) the Contributor may Distribute the Program under a license different than
 this

Agreement, provided that such license:
i) effectively disclaims on behalf of all other Contributors all warranties
 and conditions,

express and implied, including warranties or conditions of title and non-
infringement,

and implied warranties or conditions of merchantability and fitness for a
 particular

purpose;
ii) effectively excludes on behalf of all other Contributors all liability
 for damages,

including direct, indirect, special, incidental and consequential damages,
 such as

lost profits;
```

```
iii) does not attempt to limit or alter the recipients' rights in the Source
 Code

under section 3.2; and
iv) requires any subsequent distribution of the Program by any party to be
 under

a license that satisfies the requirements of this section 3.
3.2 When the Program is Distributed as Source Code:
a) it must be made available under this Agreement, or if the Program (i) is
 combined

with other material in a separate file or files made available under a
 Secondary

License, and (ii) the initial Contributor attached to the Source Code the
 notice

described in Exhibit A of this Agreement, then the Program may be made
 available

under the terms of such Secondary Licenses, and
b) a copy of this Agreement must be included with each copy of the Program.
3.3 Contributors may not remove or alter any copyright, patent, trademark,
 attribution

notices, disclaimers of warranty, or limitations of liability ('notices')
 contained

within the Program from any copy of the Program which they Distribute,
 provided that

Contributors may add their own appropriate notices.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect

to end users, business partners and the like. While this license is intended
 to facilitate

the commercial use of the Program, the Contributor who includes the Program
 in a

commercial product offering should do so in a manner which does not create
 potential

liability for other Contributors. Therefore, if a Contributor includes the
 Program

in a commercial product offering, such Contributor ("Commercial
 Contributor") hereby

agrees to defend and indemnify every other Contributor ("Indemnified
 Contributor")

against any losses, damages and costs (collectively "Losses") arising from
 claims,

lawsuits and other legal actions brought by a third party against the
 Indemnified

Contributor to the extent caused by the acts or omissions of such Commercial
 Contributor
```

```
in connection with its distribution of the Program in a commercial product
 offering.

The obligations in this section do not apply to any claims or Losses
 relating to

any actual or alleged intellectual property infringement. In order to
 qualify, an

Indemnified Contributor must: a) promptly notify the Commercial Contributor
 in writing

of such claim, and b) allow the Commercial Contributor to control, and
 cooperate

with the Commercial Contributor in, the defense and any related settlement
 negotiations.

The Indemnified Contributor may participate in any such claim at its own
 expense.


For example, a Contributor might include the Program in a commercial product
 offering,

Product X. That Contributor is then a Commercial Contributor. If that
 Commercial

Contributor then makes performance claims, or offers warranties related to
 Product

X, those performance claims and warranties are such Commercial Contributor's
 responsibility

alone. Under this section, the Commercial Contributor would have to defend
 claims

against the other Contributors related to those performance claims and
 warranties,

and if a court requires any other Contributor to pay any damages as a
 result, the

Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY APPLICABLE

LAW, THE PROGRAM IS PROVIDED ON AN “AS IS” BASIS, WITHOUT WARRANTIES OR
 CONDITIONS

OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY
 WARRANTIES

OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR

PURPOSE. Each Recipient is solely responsible for determining the
 appropriateness

of using and distributing the Program and assumes all risks associated with
 its exercise
```

```
of rights under this Agreement, including but not limited to the risks and
 costs

of program errors, compliance with applicable laws, damage to or loss of
 data, programs

or equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY APPLICABLE

LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY
 DIRECT,

INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING WITHOUT

LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER

IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING

IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF
 ANY RIGHTS

GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law,

it shall not affect the validity or enforceability of the remainder of the
 terms

of this Agreement, and without further action by the parties hereto, such
 provision

shall be reformed to the minimum extent necessary to make such provision
 valid and

enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim

or counterclaim in a lawsuit) alleging that the Program itself (excluding
 combinations

of the Program with other software or hardware) infringes such Recipient's
 patent(s),

then such Recipient's rights granted under Section 2(b) shall terminate as
 of the

date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply

with any of the material terms or conditions of this Agreement and does not
 cure

such failure in a reasonable period of time after becoming aware of such
 noncompliance.
```

```
If all Recipient's rights under this Agreement terminate, Recipient agrees
 to cease

use and distribution of the Program as soon as reasonably practicable.
 However, Recipient's

obligations under this Agreement and any licenses granted by Recipient
 relating to

the Program shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order

to avoid inconsistency the Agreement is copyrighted and may only be modified
 in the

following manner. The Agreement Steward reserves the right to publish new
 versions

(including revisions) of this Agreement from time to time. No one other than
 the

Agreement Steward has the right to modify this Agreement. The Eclipse
 Foundation

is the initial Agreement Steward. The Eclipse Foundation may assign the
 responsibility

to serve as the Agreement Steward to a suitable separate entity. Each new
 version

of the Agreement will be given a distinguishing version number. The Program
 (including

Contributions) may always be Distributed subject to the version of the
 Agreement

under which it was received. In addition, after a new version of the
 Agreement is

published, Contributor may elect to Distribute the Program (including its
 Contributions)

under the new version.
Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no

rights or licenses to the intellectual property of any Contributor under
 this Agreement,

whether expressly, by implication, estoppel or otherwise. All rights in the
 Program

not expressly granted under this Agreement are reserved. Nothing in this
 Agreement

is intended to be enforceable by any entity that is not a Contributor or
 Recipient.

No third-party beneficiary rights are created under this Agreement.
Exhibit A - Form of Secondary Licenses Notice
"This Source Code may also be made available under the following Secondary
 Licenses
```

```
when the conditions for such availability set forth in the Eclipse Public
 License,

v. 2.0 are satisfied: {name license(s), version(s), and exceptions or
 additional

permissions here}."
Simply including a copy of this Agreement, including this Exhibit A is not
 sufficient

to license the Source Code under Secondary Licenses.
If it is not possible or desirable to put the notice in a particular file,
 then You

may include the notice in a location (such as a LICENSE file in a relevant
 directory)

where a recipient would be likely to look for such a notice.
You may add additional accurate notices of copyright ownership.
================ End of Reference [6] ================
================ Start of Reference [7] ================
/
*****************************************************************************


 * Copyright (c) 2008 - 2013 Oracle Corporation. All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 and Eclipse Distribution License
 v. 1.0


 * which accompanies this distribution.
 * The Eclipse Public License is available at http://www.eclipse.org/legal/
epl-v10.html


 * and the Eclipse Distribution License is available at
 * http://www.eclipse.org/org/documents/edl-v10.php.
 *
 * Contributors:
 *     Linda DeMichiel - Java Persistence 2.1
 *     Linda DeMichiel - Java Persistence 2.0
 *
 *****************************************************************************/


================ End of Reference [7] ================
================ Start of Reference [8] ================
Copyright ${project.inceptionYear} - ${current.year} ${copyright.holder}
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
================ End of Reference [8] ================
================ Start of Reference [9] ================
Copyright 2001-2016 (C) MetaStuff, Ltd. and DOM4J contributors. All Rights
 Reserved.
```

```
Redistribution and use of this software and associated documentation
("Software"), with or without modification, are permitted provided
that the following conditions are met:
1. Redistributions of source code must retain copyright
   statements and notices.  Redistributions must also contain a
   copy of this document.
2. Redistributions in binary form must reproduce the
   above copyright notice, this list of conditions and the
   following disclaimer in the documentation and/or other
   materials provided with the distribution.
3. The name "DOM4J" must not be used to endorse or promote
   products derived from this Software without prior written
   permission of MetaStuff, Ltd.  For written permission,
   please contact dom4j-info@metastuff.com.
4. Products derived from this Software may not be called "DOM4J"
   nor may "DOM4J" appear in their names without prior written
   permission of MetaStuff, Ltd. DOM4J is a registered
   trademark of MetaStuff, Ltd.
5. Due credit should be given to the DOM4J Project - https://
dom4j.github.io/
THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL
METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.
================ End of Reference [9] ================
================ Start of Reference [10] ================
Copyright 2001-2016 (C) MetaStuff, Ltd. and DOM4J contributors. All Rights
 Reserved.


================ End of Reference [10] ================
================ Start of Reference [11] ================
Eclipse Public License - v 1.0 THE ACCOMPANYING PROGRAM IS PROVIDED UNDER
 THE TERMS

OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR
 DISTRIBUTION

OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.  1.
 DEFINITIONS

 "Contribution" means:  a) in the case of the initial Contributor, the
 initial code

and documentation distributed under this Agreement, and  b) in the case of
 each subsequent

Contributor:  i) changes to the Program, and  ii) additions to the Program;
 where

such changes and/or additions to the Program originate from and are
 distributed by

that particular Contributor. A Contribution 'originates' from a Contributor
 if it
```

```
was added to the Program by such Contributor itself or anyone acting on such
 Contributor's

behalf. Contributions do not include additions to the Program which: (i) are
 separate

modules of software distributed in conjunction with the Program under their
 own license

agreement, and (ii) are not derivative works of the Program.  "Contributor"
 means

any person or entity that distributes the Program.  "Licensed Patents" mean
 patent

claims licensable by a Contributor which are necessarily infringed by the
 use or

sale of its Contribution alone or when combined with the Program.  "Program"
 means

the Contributions distributed in accordance with this Agreement.
 "Recipient" means

anyone who receives the Program under this Agreement, including all
 Contributors.

 2. GRANT OF RIGHTS  a) Subject to the terms of this Agreement, each
 Contributor

hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright
 license

to reproduce, prepare derivative works of, publicly display, publicly
 perform, distribute

and sublicense the Contribution of such Contributor, if any, and such
 derivative

works, in source code and object code form.  b) Subject to the terms of this
 Agreement,

each Contributor hereby grants Recipient a non-exclusive, worldwide,
 royalty-free

patent license under Licensed Patents to make, use, sell, offer to sell,
 import and

otherwise transfer the Contribution of such Contributor, if any, in source
 code and

object code form. This patent license shall apply to the combination of the
 Contribution

and the Program if, at the time the Contribution is added by the
 Contributor, such

addition of the Contribution causes such combination to be covered by the
 Licensed

Patents. The patent license shall not apply to any other combinations which
 include
```

```
the Contribution. No hardware per se is licensed hereunder.  c) Recipient
 understands

that although each Contributor grants the licenses to its Contributions set
 forth

herein, no assurances are provided by any Contributor that the Program does
 not infringe

the patent or other intellectual property rights of any other entity. Each
 Contributor

disclaims any liability to Recipient for claims brought by any other entity
 based

on infringement of intellectual property rights or otherwise. As a condition
 to exercising

the rights and licenses granted hereunder, each Recipient hereby assumes
 sole responsibility

to secure any other intellectual property rights needed, if any. For
 example, if

a third party patent license is required to allow Recipient to distribute
 the Program,

it is Recipient's responsibility to acquire that license before distributing
 the

Program.  d) Each Contributor represents that to its knowledge it has
 sufficient

copyright rights in its Contribution, if any, to grant the copyright license
 set

forth in this Agreement.  3. REQUIREMENTS  A Contributor may choose to
 distribute

the Program in object code form under its own license agreement, provided
 that:

a) it complies with the terms and conditions of this Agreement; and  b) its
 license

agreement:  i) effectively disclaims on behalf of all Contributors all
 warranties

and conditions, express and implied, including warranties or conditions of
 title

and non-infringement, and implied warranties or conditions of
 merchantability and

fitness for a particular purpose;  ii) effectively excludes on behalf of all
 Contributors

all liability for damages, including direct, indirect, special, incidental
 and consequential

damages, such as lost profits;  iii) states that any provisions which differ
 from
```

```
this Agreement are offered by that Contributor alone and not by any other
 party;

and  iv) states that source code for the Program is available from such
 Contributor,

and informs licensees how to obtain it in a reasonable manner on or through
 a medium

customarily used for software exchange.  When the Program is made available
 in source

code form:  a) it must be made available under this Agreement; and  b) a
 copy of

this Agreement must be included with each copy of the Program.  Contributors
 may

not remove or alter any copyright notices contained within the Program.
 Each Contributor

must identify itself as the originator of its Contribution, if any, in a
 manner that

reasonably allows subsequent Recipients to identify the originator of the
 Contribution.

 4. COMMERCIAL DISTRIBUTION  Commercial distributors of software may accept
 certain

responsibilities with respect to end users, business partners and the like.
 While

this license is intended to facilitate the commercial use of the Program,
 the Contributor

who includes the Program in a commercial product offering should do so in a
 manner

which does not create potential liability for other Contributors. Therefore,
 if a

Contributor includes the Program in a commercial product offering, such
 Contributor

("Commercial Contributor") hereby agrees to defend and indemnify every other
 Contributor

("Indemnified Contributor") against any losses, damages and costs
 (collectively "Losses")

arising from claims, lawsuits and other legal actions brought by a third
 party against

the Indemnified Contributor to the extent caused by the acts or omissions of
 such

Commercial Contributor in connection with its distribution of the Program in
 a commercial

product offering. The obligations in this section do not apply to any claims
 or Losses
```

```
relating to any actual or alleged intellectual property infringement. In
 order to

qualify, an Indemnified Contributor must: a) promptly notify the Commercial
 Contributor

in writing of such claim, and b) allow the Commercial Contributor to
 control, and

cooperate with the Commercial Contributor in, the defense and any related
 settlement

negotiations. The Indemnified Contributor may participate in any such claim
 at its

own expense.  For example, a Contributor might include the Program in a
 commercial

product offering, Product X. That Contributor is then a Commercial
 Contributor. If

that Commercial Contributor then makes performance claims, or offers
 warranties related

to Product X, those performance claims and warranties are such Commercial
 Contributor's

responsibility alone. Under this section, the Commercial Contributor would
 have to

defend claims against the other Contributors related to those performance
 claims

and warranties, and if a court requires any other Contributor to pay any
 damages

as a result, the Commercial Contributor must pay those damages.  5. NO
 WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON
 AN "AS

IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
 IMPLIED

INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-
INFRINGEMENT,

MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is
 solely responsible

for determining the appropriateness of using and distributing the Program
 and assumes

all risks associated with its exercise of rights under this Agreement ,
 including

but not limited to the risks and costs of program errors, compliance with
 applicable

laws, damage to or loss of data, programs or equipment, and unavailability
 or interruption
```

```
of operations.  6. DISCLAIMER OF LIABILITY  EXCEPT AS EXPRESSLY SET FORTH IN
 THIS

AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY
 FOR ANY

DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING

WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY,

WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE)

ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
 EXERCISE

OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGES.

 7. GENERAL  If any provision of this Agreement is invalid or unenforceable
 under

applicable law, it shall not affect the validity or enforceability of the
 remainder

of the terms of this Agreement, and without further action by the parties
 hereto,

such provision shall be reformed to the minimum extent necessary to make
 such provision

valid and enforceable.  If Recipient institutes patent litigation against
 any entity

(including a cross-claim or counterclaim in a lawsuit) alleging that the
 Program

itself (excluding combinations of the Program with other software or
 hardware) infringes

such Recipient's patent(s), then such Recipient's rights granted under
 Section 2(b)

shall terminate as of the date such litigation is filed.  All Recipient's
 rights

under this Agreement shall terminate if it fails to comply with any of the
 material

terms or conditions of this Agreement and does not cure such failure in a
 reasonable

period of time after becoming aware of such noncompliance. If all
 Recipient's rights

under this Agreement terminate, Recipient agrees to cease use and
 distribution of

the Program as soon as reasonably practicable. However, Recipient's
 obligations under
```

```
this Agreement and any licenses granted by Recipient relating to the Program
 shall

continue and survive.  Everyone is permitted to copy and distribute copies
 of this

Agreement, but in order to avoid inconsistency the Agreement is copyrighted
 and may

only be modified in the following manner. The Agreement Steward reserves the
 right

to publish new versions (including revisions) of this Agreement from time to
 time.

No one other than the Agreement Steward has the right to modify this
 Agreement. The

Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation
 may assign

the responsibility to serve as the Agreement Steward to a suitable separate
 entity.

Each new version of the Agreement will be given a distinguishing version
 number.

The Program (including Contributions) may always be distributed subject to
 the version

of the Agreement under which it was received. In addition, after a new
 version of

the Agreement is published, Contributor may elect to distribute the Program
 (including

its Contributions) under the new version. Except as expressly stated in
 Sections

2(a) and 2(b) above, Recipient receives no rights or licenses to the
 intellectual

property of any Contributor under this Agreement, whether expressly, by
 implication,

estoppel or otherwise. All rights in the Program not expressly granted under
 this

Agreement are reserved.  This Agreement is governed by the laws of the State
 of New

York and the intellectual property laws of the United States of America. No
 party

to this Agreement will bring a legal action under this Agreement more than
 one year

after the cause of action arose. Each party waives its rights to a jury
 trial in

any resulting litigation.
================ End of Reference [11] ================
================ Start of Reference [12] ================
```

```
All content is the property of the respective authors or their employers.
 For more

information regarding authorship of content, please consult the listed
 source code

repository logs.
================ End of Reference [12] ================
================ Start of Reference [13] ================
    GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999
 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.
[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]
       Preamble
  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.
  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.
  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.
  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.
  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.
  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.
  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.
  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
```

```
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.
  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.
  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.
  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.
  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.
  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.
  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.
    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".
  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.
  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)
  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.
  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
```

```
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.
  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.
  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.
  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:
    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.
    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)
These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.
  Once this change is made in a given copy, it is irreversible for
```

```
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.
  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.
  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.
  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.
  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:
    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
```

```
    to use the modified definitions.)
    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.
    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.
    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.
  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:
    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.
    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.
  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.
  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
```

```
this License.
  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.
This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.
  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.
  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.
  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.
       NO WARRANTY
  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
```

```
  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
       END OF TERMS AND CONDITIONS
           How to Apply These Terms to Your New Libraries
  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).
  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>
    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.
    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.
    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
 USA
Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:
  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.
  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice
That's all there is to it!
================ End of Reference [13] ================
================ Start of Reference [14] ================
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
 * License: GNU Lesser General Public License (LGPL), version 2.1 or later.
 * See the lgpl.txt file in the root directory or <http://www.gnu.org/
licenses/lgpl-2.1.html>.


 */
================ End of Reference [14] ================
================ Start of Reference [15] ================
Offered under Apache 2.0, LGPL 2.1, or MPL 1.1. See above for Apache 2.0 and
 LGPL

2.1 license text.
------------------------------------------------------------
MOZILLA PUBLIC LICENSE Version 1.1
```

```
------------------------------------------------------------
1. Definitions. 1.0.1. "Commercial Use" means distribution or otherwise
 making the

Covered Code available to a third party. 1.1. ''Contributor'' means each
 entity that

creates or contributes to the creation of Modifications.
1.2. ''Contributor Version'' means the combination of the Original Code,
 prior Modifications

used by a Contributor, and the Modifications made by that particular
 Contributor.


1.3. ''Covered Code'' means the Original Code or Modifications or the
 combination

of the Original Code and Modifications, in each case including portions
 thereof.


1.4. ''Electronic Distribution Mechanism'' means a mechanism generally
 accepted in

the software development community for the electronic transfer of data.
1.5. ''Executable'' means Covered Code in any form other than Source Code.
1.6. ''Initial Developer'' means the individual or entity identified as the
 Initial

Developer in the Source Code notice required by Exhibit A.
1.7. ''Larger Work'' means a work which combines Covered Code or portions
 thereof

with code not governed by the terms of this License.
1.8. ''License'' means this document.
1.8.1. "Licensable" means having the right to grant, to the maximum extent
 possible,

whether at the time of the initial grant or subsequently acquired, any and
 all of

the rights conveyed herein.
1.9. ''Modifications'' means any addition to or deletion from the substance
 or structure

of either the Original Code or any previous Modifications. When Covered Code
 is released

as a series of files, a Modification is: A. Any addition to or deletion from
 the

contents of a file containing Original Code or previous Modifications. B.
 Any new

file that contains any part of the Original Code or previous Modifications.

1.10. ''Original Code'' means Source Code of computer software code which is
 described

in the Source Code notice required by Exhibit A as Original Code, and which,
 at the
```

```
time of its release under this License is not already Covered Code governed
 by this

License.
1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter
 acquired,

including without limitation,  method, process, and apparatus claims, in any
 patent

Licensable by grantor.
1.11. ''Source Code'' means the preferred form of the Covered Code for
 making modifications

to it, including all modules it contains, plus any associated interface
 definition

files, scripts used to control compilation and installation of an
 Executable, or

source code differential comparisons against either the Original Code or
 another

well known, available Covered Code of the Contributor's choice. The Source
 Code can

be in a compressed or archival form, provided the appropriate decompression
 or de-archiving

software is widely available for no charge.
1.12. "You'' (or "Your")  means an individual or a legal entity exercising
 rights

under, and complying with all of the terms of, this License or a future
 version of

this License issued under Section 6.1. For legal entities, "You'' includes
 any entity

which controls, is controlled by, or is under common control with You. For
 purposes

of this definition, "control'' means (a) the power, direct or indirect, to
 cause

the direction or management of such entity, whether by contract or
 otherwise, or

(b) ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial

ownership of such entity.
2. Source Code License.
2.1. The Initial Developer Grant.
The Initial Developer hereby grants You a world-wide, royalty-free, non-
exclusive

license, subject to third party intellectual property claims:
(a)  under intellectual property rights (other than patent or trademark)
 Licensable

by Initial Developer to use, reproduce, modify, display, perform, sublicense
 and
```

```
distribute the Original Code (or portions thereof) with or without
 Modifications,

and/or as part of a Larger Work; and
(b) under Patents Claims infringed by the making, using or selling of
 Original Code,

to make, have made, use, practice, sell, and offer for sale, and/or
 otherwise dispose

of the Original Code (or portions thereof). (c) the licenses granted in this
 Section

2.1(a) and (b) are effective on the date Initial Developer first distributes
 Original

Code under the terms of this License.
(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1)
 for code

that You delete from the Original Code; 2) separate from the Original Code;
 or 3)

for infringements caused by: i) the modification of the Original Code or ii)
 the

combination of the Original Code with other software or devices.

2.2. Contributor Grant.
Subject to third party intellectual property claims, each Contributor hereby
 grants

You a world-wide, royalty-free, non-exclusive license
(a)  under intellectual property rights (other than patent or trademark)
 Licensable

by Contributor, to use, reproduce, modify, display, perform, sublicense and
 distribute

the Modifications created by such Contributor (or portions thereof) either
 on an

unmodified basis, with other Modifications, as Covered Code and/or as part
 of a Larger

Work; and
(b) under Patent Claims infringed by the making, using, or selling of
 Modifications

made by that Contributor either alone and/or in combination with its
 Contributor

Version (or portions of such combination), to make, use, sell, offer for
 sale, have

made, and/or otherwise dispose of: 1) Modifications made by that Contributor
 (or

portions thereof); and 2) the combination of  Modifications made by that
 Contributor

with its Contributor Version (or portions of such combination).
(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the
 date
```

```
Contributor first makes Commercial Use of the Covered Code.
(d)    Notwithstanding Section 2.2(b) above, no patent license is granted:
 1) for

any code that Contributor has deleted from the Contributor Version; 2)
 separate

from the Contributor Version;  3)  for infringements caused by: i) third
 party modifications

of Contributor Version or ii)  the combination of Modifications made by that
 Contributor

with other software  (except as part of the Contributor Version) or other
 devices;

or 4) under Patent Claims infringed by Covered Code in the absence of
 Modifications

made by that Contributor.
3. Distribution Obligations. 3.1. Application of License.
The Modifications which You create or to which You contribute are governed
 by the

terms of this License, including without limitation Section 2.2. The Source
 Code

version of Covered Code may be distributed only under the terms of this
 License or

a future version of this License released under Section 6.1, and You must
 include

a copy of this License with every copy of the Source Code You distribute.
 You may

not offer or impose any terms on any Source Code version that alters or
 restricts

the applicable version of this License or the recipients' rights hereunder.
 However,

You may include an additional document offering the additional rights
 described in

Section 3.5. 3.2. Availability of Source Code.
Any Modification which You create or to which You contribute must be made
 available

in Source Code form under the terms of this License either on the same media
 as an

Executable version or via an accepted Electronic Distribution Mechanism to
 anyone

to whom you made an Executable version available; and if made available via
 Electronic

Distribution Mechanism, must remain available for at least twelve (12)
 months after

the date it initially became available, or at least six (6) months after a
 subsequent
```

```
version of that particular Modification has been made available to such
 recipients.

You are responsible for ensuring that the Source Code version remains
 available even

if the Electronic Distribution Mechanism is maintained by a third party.
3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a file
 documenting

the changes You made to create that Covered Code and the date of any change.
 You

must include a prominent statement that the Modification is derived,
 directly or

indirectly, from Original Code provided by the Initial Developer and
 including the

name of the Initial Developer in (a) the Source Code, and (b) in any notice
 in an

Executable version or related documentation in which You describe the origin
 or ownership

of the Covered Code.
3.4. Intellectual Property Matters (a) Third Party Claims.
If Contributor has knowledge that a license under a third party's
 intellectual property

rights is required to exercise the rights granted by such Contributor under
 Sections

2.1 or 2.2, Contributor must include a text file with the Source Code
 distribution

titled "LEGAL'' which describes the claim and the party making the claim in
 sufficient

detail that a recipient will know whom to contact. If Contributor obtains
 such knowledge

after the Modification is made available as described in Section 3.2,
 Contributor

shall promptly modify the LEGAL file in all copies Contributor makes
 available thereafter

and shall take other steps (such as notifying appropriate mailing lists or
 newsgroups)

reasonably calculated to inform those who received the Covered Code that new
 knowledge

has been obtained. (b) Contributor APIs.
If Contributor's Modifications include an application programming interface
 and Contributor

has knowledge of patent licenses which are reasonably necessary to implement
 that

API, Contributor must also include this information in the LEGAL file.
```

```
          (c)    Representations.
Contributor represents that, except as disclosed pursuant to Section 3.4(a)
 above,

Contributor believes that Contributor's Modifications are Contributor's
 original

creation(s) and/or Contributor has sufficient rights to grant the rights
 conveyed

by this License.
3.5. Required Notices.
You must duplicate the notice in Exhibit A in each file of the Source Code.
 If it

is not possible to put such notice in a particular Source Code file due to
 its structure,

then You must include such notice in a location (such as a relevant
 directory) where

a user would be likely to look for such a notice.  If You created one or
 more Modification(s)

You may add your name as a Contributor to the notice described in Exhibit A.
  You

must also duplicate this License in any documentation for the Source Code
 where You

describe recipients' rights or ownership rights relating to Covered Code.
 You may

choose to offer, and to charge a fee for, warranty, support, indemnity or
 liability

obligations to one or more recipients of Covered Code. However, You may do
 so only

on Your own behalf, and not on behalf of the Initial Developer or any
 Contributor.

You must make it absolutely clear than any such warranty, support, indemnity
 or liability

obligation is offered by You alone, and You hereby agree to indemnify the
 Initial

Developer and every Contributor for any liability incurred by the Initial
 Developer

or such Contributor as a result of warranty, support, indemnity or liability
 terms

You offer.
3.6. Distribution of Executable Versions.
You may distribute Covered Code in Executable form only if the requirements
 of Section

3.1-3.5 have been met for that Covered Code, and if You include a notice
 stating
```

```
that the Source Code version of the Covered Code is available under the
 terms of

this License, including a description of how and where You have fulfilled
 the obligations

of Section 3.2. The notice must be conspicuously included in any notice in
 an Executable

version, related documentation or collateral in which You describe
 recipients' rights

relating to the Covered Code. You may distribute the Executable version of
 Covered

Code or ownership rights under a license of Your choice, which may contain
 terms

different from this License, provided that You are in compliance with the
 terms of

this License and that the license for the Executable version does not
 attempt to

limit or alter the recipient's rights in the Source Code version from the
 rights

set forth in this License. If You distribute the Executable version under a
 different

license You must make it absolutely clear that any terms which differ from
 this License

are offered by You alone, not by the Initial Developer or any Contributor.
 You hereby

agree to indemnify the Initial Developer and every Contributor for any
 liability

incurred by the Initial Developer or such Contributor as a result of any
 such terms

You offer.
3.7. Larger Works.
You may create a Larger Work by combining Covered Code with other code not
 governed

by the terms of this License and distribute the Larger Work as a single
 product.

In such a case, You must make sure the requirements of this License are
 fulfilled

for the Covered Code.
4. Inability to Comply Due to Statute or Regulation.
If it is impossible for You to comply with any of the terms of this License
 with

respect to some or all of the Covered Code due to statute, judicial order,
 or regulation

then You must: (a) comply with the terms of this License to the maximum
 extent possible;
```

```
and (b) describe the limitations and the code they affect. Such description
 must

be included in the LEGAL file described in Section 3.4 and must be included
 with

all distributions of the Source Code. Except to the extent prohibited by
 statute

or regulation, such description must be sufficiently detailed for a
 recipient of

ordinary skill to be able to understand it.
5. Application of this License.
This License applies to code to which the Initial Developer has attached the
 notice

in Exhibit A and to related Covered Code.
6. Versions of the License.
6.1. New Versions.
Netscape Communications Corporation (''Netscape'') may publish revised and/
or new

versions of the License from time to time. Each version will be given a
 distinguishing

version number.
6.2. Effect of New Versions.
Once Covered Code has been published under a particular version of the
 License, You

may always continue to use it under the terms of that version. You may also
 choose

to use such Covered Code under the terms of any subsequent version of the
 License

published by Netscape. No one other than Netscape has the right to modify
 the terms

applicable to Covered Code created under this License.
6.3. Derivative Works.
If You create or use a modified version of this License (which you may only
 do in

order to apply it to code which is not already Covered Code governed by this
 License),

You must (a) rename Your license so that the phrases ''Mozilla'',
 ''MOZILLAPL'',

''MOZPL'', ''Netscape'', "MPL", ''NPL'' or any confusingly similar phrase do
 not

appear in your license (except to note that your license differs from this
 License)

and (b) otherwise make it clear that Your version of the license contains
 terms which

differ from the Mozilla Public License and Netscape Public License. (Filling
 in the
```

```
name of the Initial Developer, Original Code or Contributor in the notice
 described

in Exhibit A shall not of themselves be deemed to be modifications of this
 License.)


7. DISCLAIMER OF WARRANTY.
COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS'' BASIS, WITHOUT
 WARRANTY

OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION,
 WARRANTIES

THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR
 PURPOSE

OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
 COVERED

CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT,
 YOU (NOT

THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY
 NECESSARY

SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
 ESSENTIAL

PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER
 EXCEPT UNDER

THIS DISCLAIMER.
8. TERMINATION.
8.1.  This License and the rights granted hereunder will terminate
 automatically

if You fail to comply with terms herein and fail to cure such breach within
 30 days

of becoming aware of the breach. All sublicenses to the Covered Code which
 are properly

granted shall survive any termination of this License. Provisions which, by
 their

nature, must remain in effect beyond the termination of this License shall
 survive.


8.2.  If You initiate litigation by asserting a patent infringement claim
 (excluding

declatory judgment actions) against Initial Developer or a Contributor (the
 Initial

Developer or Contributor against whom You file such action is referred to as
 "Participant")

 alleging that:
(a)  such Participant's Contributor Version directly or indirectly infringes
 any
```

```
patent, then any and all rights granted by such Participant to You under
 Sections

2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant
 terminate

prospectively, unless if within 60 days after receipt of notice You either:
 (i)

agree in writing to pay Participant a mutually agreeable reasonable royalty
 for Your

past and future use of Modifications made by such Participant, or (ii)
 withdraw Your

litigation claim with respect to the Contributor Version against such
 Participant.

 If within 60 days of notice, a reasonable royalty and payment arrangement
 are not

mutually agreed upon in writing by the parties or the litigation claim is
 not withdrawn,

the rights granted by Participant to You under Sections 2.1 and/or 2.2
 automatically

terminate at the expiration of the 60 day notice period specified above.
(b)  any software, hardware, or device, other than such Participant's
 Contributor

Version, directly or indirectly infringes any patent, then any rights
 granted to

You by such Participant under Sections 2.1(b) and 2.2(b) are revoked
 effective as

of the date You first made, used, sold, distributed, or had made,
 Modifications made

by that Participant.
8.3.  If You assert a patent infringement claim against Participant alleging
 that

such Participant's Contributor Version directly or indirectly infringes any
 patent

where such claim is resolved (such as by license or settlement) prior to the
 initiation

of patent infringement litigation, then the reasonable value of the licenses
 granted

by such Participant under Sections 2.1 or 2.2 shall be taken into account in
 determining

the amount or value of any payment or license.
8.4.  In the event of termination under Sections 8.1 or 8.2 above,  all end
 user

license agreements (excluding distributors and resellers) which have been
 validly
```

```
granted by You or any distributor hereunder prior to termination shall
 survive termination.


9. LIMITATION OF LIABILITY.
UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING
 NEGLIGENCE),

CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER
 CONTRIBUTOR,

OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES,
 BE LIABLE

TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL
 DAMAGES OF

ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL,
 WORK STOPPAGE,

COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
 LOSSES,

EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH
 DAMAGES. THIS

LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL
 INJURY

RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW
 PROHIBITS SUCH

LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF
 INCIDENTAL

OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO
 YOU.


10. U.S. GOVERNMENT END USERS.
The Covered Code is a ''commercial item,'' as that term is defined in 48
 C.F.R. 2.101

(Oct. 1995), consisting of ''commercial computer software'' and ''commercial
 computer

software documentation,'' as such terms are used in 48 C.F.R. 12.212 (Sept.
 1995).

Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
 (June

1995), all U.S. Government End Users acquire Covered Code with only those
 rights

set forth herein.
11. MISCELLANEOUS.
This License represents the complete agreement concerning subject matter
 hereof.

If any provision of this License is held to be unenforceable, such provision
 shall
```

```
be reformed only to the extent necessary to make it enforceable. This
 License shall

be governed by California law provisions (except to the extent applicable
 law, if

any, provides otherwise), excluding its conflict-of-law provisions. With
 respect

to disputes in which at least one party is a citizen of, or an entity
 chartered or

registered to do business in the United States of America, any litigation
 relating

to this License shall be subject to the jurisdiction of the Federal Courts
 of the

Northern District of California, with venue lying in Santa Clara County,
 California,

with the losing party responsible for costs, including without limitation,
 court

costs and reasonable attorneys' fees and expenses. The application of the
 United

Nations Convention on Contracts for the International Sale of Goods is
 expressly

excluded. Any law or regulation which provides that the language of a
 contract shall

be construed against the drafter shall not apply to this License.
12. RESPONSIBILITY FOR CLAIMS.
As between Initial Developer and the Contributors, each party is responsible
 for

claims and damages arising, directly or indirectly, out of its utilization
 of rights

under this License and You agree to work with Initial Developer and
 Contributors

to distribute such responsibility on an equitable basis. Nothing herein is
 intended

or shall be deemed to constitute any admission of liability.
13. MULTIPLE-LICENSED CODE.
Initial Developer may designate portions of the Covered Code as "Multiple-
Licensed".

 "Multiple-Licensed" means that the Initial Developer permits you to utilize
 portions

of the Covered Code under Your choice of the MPL or the alternative
 licenses, if

any, specified by the Initial Developer in the file described in Exhibit A.
EXHIBIT A -Mozilla Public License. The contents of this file are subject to
 the Mozilla

Public License Version 1.1 (the "License"); you may not use this file except
 in compliance
```

```
with the License. You may obtain a copy of the License at
http://www.mozilla.org/MPL/ Software distributed under the License is
 distributed

on an "AS IS" basis, WITHOUT WARRANTY OF
ANY KIND, either express or implied. See the License for the specific
 language governing

rights and
limitations under the License.
The Original Code is Javassist.
The Initial Developer of the Original Code is Shigeru Chiba. Portions
 created by

the Initial Developer are
  Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.
Contributor(s): __Bill Burke, Jason T. Greene_______________.
Alternatively, the contents of this software may be used under theterms of
 the GNU

Lesser General Public License Version 2.1 or later(the "LGPL"), or the
 Apache License

Version 2.0 (the "AL"),in which case the provisions of the LGPL or the AL
 are applicableinstead

of those above. If you wish to allow use of your version ofthis software
 only under

the terms of either the LGPL or the AL, and not to allow others touse your
 version

of this software under the terms of the MPL, indicateyour decision by
 deleting the

provisions above and replace them withthe notice and other provisions
 required by

the LGPL or the AL. If you do notdelete the provisions above, a recipient
 may use

your version of thissoftware under the terms of any one of the MPL, the LGPL
 or the

AL.
================ End of Reference [15] ================
================ Start of Reference [16] ================
Copyright (C) 1999-2020 by Shigeru Chiba, All rights reserved.
================ End of Reference [16] ================
================ Start of Reference [17] ================
/*
 * JBoss, Home of Professional Open Source.
 * Copyright 2013 Red Hat, Inc., and individual contributors
 * as indicated by the @author tags.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
```

```
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [17] ================
================ Start of Reference [18] ================
/*
 * JBoss, Home of Professional Open Source.
 *
 * Copyright 2011 Red Hat, Inc., and individual contributors
 * as indicated by the @author tags.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
================ End of Reference [18] ================
```

Provider: The gRPC Authors / Component(s): grpc-netty 1.57.1

```
################################################################################
Top Level License - grpc-netty
################################################################################

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
```

```
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
```

```
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");

   You may obtain a copy of the License at
      = License text for Apache 2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

################################################################################
Top Level Notice - grpc-netty
################################################################################
Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");

    = License text for Apache 2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

================================================================================
4P Dependency Licences:
================================================================================
```

```
_____________________________________________________
io.grpc:grpc-core
io.netty:netty-codec-http2
io.netty:netty-handler-proxy
com.google.guava:guava
com.google.errorprone:error_prone_annotations
io.perfmark:perfmark-api
io.netty:netty-transport-native-unix-common
io.grpc:grpc-api
com.google.code.gson:gson
io.grpc:grpc-context
io.netty:netty-common
io.netty:netty-buffer
io.netty:netty-transport
io.netty:netty-resolver
io.netty:netty-codec
io.netty:netty-handler
io.netty:netty-codec-http
io.netty:netty-codec-socks
com.google.guava:failureaccess
com.google.guava:listenablefuture
com.google.j2objc:j2objc-annotations
_____________________________________________________
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");

      = License text for Apache 2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

_________________________________
com.google.code.findbugs:jsr305
_________________________________
Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
```

```
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

== jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

___________________________
com.google.android:annotations:jar
___________________________
************************************
This project is available under the following license:
************************************
Copyright 2012-2016 eBusiness Information
Copyright 2016-2017 the AndroidAnnotations project

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at

= License text for Apache 2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
 under
the License.

This project uses CodeModel (http://codemodel.java.net/), which is
distributed under the GlassFish Dual License, which means CodeModel is
subject to the terms of either the GNU General Public License Version 2 only
("GPL") or the Common Development and Distribution License("CDDL").

You may obtain a copy of the "CDDL" License at
```

```
As per section 3.6 ("Larger Works") of the "CDDL" License, we may create a
Larger Work by combining Covered Software with other code not governed by
the terms of this License and distribute the Larger Work as a single
product.

We are therefore allowed to distribute CodeModel without Modification as
part of AndroidAnnotations.

About AndroidAnnotations generated files: if you create a larger work that
contains files generated by AndroidAnnotations, you can distribute that
 work
under terms of your choice.

___________________________
org.codehaus.mojo:animal-sniffer-annotations
___________________________
The MIT License

Copyright (c) 2009 codehaus.org.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

__________________________________
org.checkerframework:checker-qual
__________________________________
Checker Framework qualifiers
Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

================================================================================
4P Dependency Notices:
================================================================================
__________________________
io.grpc:grpc-core
io.grpc:grpc-api
io.grpc:grpc-context
__________________________
Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");

 = License text for Apache 2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------------------------------------------------------------

This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:

  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp

This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:

  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
 = License text for Apache 2.0
  * NOTICE:
    Envoy
    Copyright The Envoy Project Authors

    Licensed under Apache License 2.0.  See LICENSE for terms.
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy

This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:

  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
```

```
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate

This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:

  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa

_______________________
io.netty:netty-codec-http2
io.netty:netty-handler-proxy
io.netty:netty-transport-native-unix-common
io.netty:netty-common
io.netty:netty-buffer
io.netty:netty-transport
io.netty:netty-resolver
io.netty:netty-codec
io.netty:netty-handler
io.netty:netty-codec-http
io.netty:netty-codec-socks
_______________________

                            The Netty Project
                            =================

Please visit the Netty web site for more information:

  * https://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License");

 = License text for Apache 2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
      The person or persons who have associated work with this document (the
      "Dedicator" or "Certifier") hereby either (a) certifies that, to the
 best of
```

```
      his knowledge, the work of authorship identified is in the public
 domain of
      the country from which the work is published, or (b) hereby dedicates
 whatever
      copyright the dedicators holds in the work of authorship identified
 below (the
      "Work") to the public domain. A certifier, moreover, dedicates any
 copyright
      interest he may have in the associated work, and for these purposes,
 is
      described as a "dedicator" below.

      A certifier has taken reasonable steps to verify the copyright status
 of this
      work. Certifier recognizes that his good faith efforts may not shield
 him from
      liability if in fact the work certified is not in the public domain.

      Dedicator makes this dedication for the benefit of the public at large
 and to
      the detriment of the Dedicator's heirs and successors. Dedicator
 intends this
      dedication to be an overt act of relinquishment in perpetuity of all
 present
      and future rights under copyright law, whether vested or contingent,
 in the
      Work. Dedicator understands that such relinquishment of all rights
 includes
      the relinquishment of all rights to enforce (by lawsuit or otherwise)
 those
      copyrights in the Work.

      Dedicator recognizes that, once placed in the public domain, the Work
 may be
      freely reproduced, distributed, transmitted, used, modified, built
 upon, or
      otherwise exploited by anyone for any purpose, commercial or non-
commercial,
      and in any way, including by methods that have not yet been invented
 or
      conceived.
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
    The person or persons who have associated work with this document (the
    "Dedicator" or "Certifier") hereby either (a) certifies that, to the
 best of
    his knowledge, the work of authorship identified is in the public domain
 of
    the country from which the work is published, or (b) hereby dedicates
 whatever
    copyright the dedicators holds in the work of authorship identified
 below (the
    "Work") to the public domain. A certifier, moreover, dedicates any
 copyright
    interest he may have in the associated work, and for these purposes, is
    described as a "dedicator" below.
```

```
    A certifier has taken reasonable steps to verify the copyright status of
 this
    work. Certifier recognizes that his good faith efforts may not shield
 him from
    liability if in fact the work certified is not in the public domain.

    Dedicator makes this dedication for the benefit of the public at large
 and to
    the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
    dedication to be an overt act of relinquishment in perpetuity of all
 present
    and future rights under copyright law, whether vested or contingent, in
 the
    Work. Dedicator understands that such relinquishment of all rights
 includes
    the relinquishment of all rights to enforce (by lawsuit or otherwise)
 those
    copyrights in the Work.

    Dedicator recognizes that, once placed in the public domain, the Work
 may be
    freely reproduced, distributed, transmitted, used, modified, built upon,
 or
    otherwise exploited by anyone for any purpose, commercial or non-
commercial,
    and in any way, including by methods that have not yet been invented or
    conceived.
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
      (BSD License: http://www.opensource.org/licenses/bsd-license)

      Copyright (c) 2011, Joe Walnes and contributors
      All rights reserved.

      Redistribution and use in source and binary forms, with or
      without modification, are permitted provided that the
      following conditions are met:

      * Redistributions of source code must retain the above
        copyright notice, this list of conditions and the
        following disclaimer.

      * Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the
        following disclaimer in the documentation and/or other
        materials provided with the distribution.

      * Neither the name of the Webbit nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

      THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
      CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
      INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
      MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
```

```
      DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
      CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
      INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
      (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
      GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
      BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
      LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
      (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
      OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
      POSSIBILITY OF SUCH DAMAGE.

  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
      (BSD License: https://www.opensource.org/licenses/bsd-license)

      Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors
      All rights reserved.

      Redistribution and use in source and binary forms, with or
      without modification, are permitted provided that the
      following conditions are met:

      * Redistributions of source code must retain the above
        copyright notice, this list of conditions and the
        following disclaimer.

      * Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the
        following disclaimer in the documentation and/or other
        materials provided with the distribution.

      * Neither the name of the Webbit nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

      THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
      CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
      INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
      MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
      DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
      CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
      INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
      (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
      GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
      BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
      LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
      (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
      OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
      POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
      Apache Harmony
```

```
     Copyright 2006, 2010 The Apache Software Foundation.

     This product includes software developed at
     The Apache Software Foundation (http://www.apache.org/).

     Portions of Apache Harmony were originally developed by
     Intel Corporation and are licensed to the Apache Software
     Foundation under the "Software Grant and Corporate Contribution
     License Agreement" and for which the following copyright notices
     apply
             (C) Copyright 2005 Intel Corporation
             (C) Copyright 2005-2006 Intel Corporation
             (C) Copyright 2006 Intel Corporation

     Portions of Apache Harmony's Class Library TEXT module contain JavaDoc
     derived from the ICU project.
     Copyright (c) 1995-2008 International Business Machines Corporation
and others


     The Apache Harmony Development Kit (HDK) contains a jar file from the
     Apache Derby Project for which the following notice applies:

     Apache Derby
     Copyright 2004-2007 The Apache Software Foundation

     This product includes software developed by
     The Apache Software Foundation (http://www.apache.org/).

     Portions of Derby were originally developed by
     International Business Machines Corporation and are
     licensed to the Apache Software Foundation under the
     "Software Grant and Corporate Contribution License Agreement",
     informally known as the "Derby CLA".
     The following copyright notice(s) were affixed to portions of the code
     with which this file is now or was at one time distributed
     and are placed here unaltered.

     (C) Copyright 1997,2004 International Business Machines Corporation.
     All rights reserved.

     (C) Copyright IBM Corp. 2003.

     The portion of the functionTests under 'nist' was originally
     developed by the National Institute of Standards and Technology
(NIST),
     an agency of the United States Department of Commerce, and adapted by
     International Business Machines Corporation in accordance with the
NIST
     Software Acknowledgment and Redistribution document at
     http://www.itl.nist.gov/div897/ctg/sql_form.htm


     Portions of the Apache Portable Runtime used by DRLVM were
     developed at the National Center for Supercomputing Applications
     (NCSA) at the University of Illinois at Urbana-Champaign.

     This software contains code derived from the RSA Data Security
     Inc. MD5 Message-Digest Algorithm.

     This software contains code derived from UNIX V7, Copyright(C)
     Caldera International Inc.
 * LICENSE:
   * license/LICENSE.harmony.txt (Apache License 2.0)
```

```
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
      Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the
 jbzip2 Project

      Permission is hereby granted, free of charge, to any person obtaining
 a copy
      of this software and associated documentation files (the "Software"),
 to deal
      in the Software without restriction, including without limitation the
 rights
      to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
      copies of the Software, and to permit persons to whom the Software is
      furnished to do so, subject to the following conditions:

      The above copyright notice and this permission notice shall be
 included in
      all copies or substantial portions of the Software.

      THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR
      IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
      FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
 SHALL THE
      AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
      LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM,
      OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
      THE SOFTWARE.

  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
      Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

      Permission is hereby granted, free of charge, to any person
      obtaining a copy of this software and associated documentation
      files (the "Software"), to deal in the Software without
      restriction, including without limitation the rights to use,
      copy, modify, merge, publish, distribute, sublicense, and/or sell
      copies of the Software, and to permit persons to whom the
      Software is furnished to do so, subject to the following
      conditions:
```

```
      The above copyright notice and this permission notice shall be
      included in all copies or substantial portions of the Software.

      THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
      EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
      OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
      NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
      HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
      WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
      FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
      OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (Apache License)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
      Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights
 reserved.

      Redistribution and use in source and binary forms, with or without
      modification, are permitted provided that the following conditions are
 met:

        1. Redistributions of source code must retain the above copyright
 notice,
          this list of conditions and the following disclaimer.

        2. Redistributions in binary form must reproduce the above
 copyright
          notice, this list of conditions and the following disclaimer in
          the documentation and/or other materials provided with the
 distribution.

        3. The names of the authors may not be used to endorse or promote
 products
          derived from this software without specific prior written
 permission.

      THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
 WARRANTIES,
      INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
      FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
 JCRAFT,
      INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT,
 INDIRECT,
      INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
 BUT NOT
      LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 DATA,
```

```
      OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
      LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
      NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
 SOFTWARE,
      EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/jponge/lzma-java

This product optionally depends on 'zstd-jni', a zstd-jni Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.zstd-jni.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/luben/zstd-jni

This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
      The MIT License

      Copyright (c) 2009 William Kinney

      Permission is hereby granted, free of charge, to any person
      obtaining a copy of this software and associated documentation
      files (the "Software"), to deal in the Software without
      restriction, including without limitation the rights to use,
      copy, modify, merge, publish, distribute, sublicense, and/or sell
      copies of the Software, and to permit persons to whom the
      Software is furnished to do so, subject to the following
```

```
      conditions:

      The above copyright notice and this permission notice shall be
      included in all copies or substantial portions of the Software.

      THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
      EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
      OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
      NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
      HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
      WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
      FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
      OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
      Protocol Buffers - Google's data interchange format
      Copyright 2013 Google Inc.  All rights reserved.
      https://developers.google.com/protocol-buffers/

      Redistribution and use in source and binary forms, with or without
      modification, are permitted provided that the following conditions are
      met:

          * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
          * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following disclaimer
      in the documentation and/or other materials provided with the
      distribution.
          * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

      THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
      "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
      LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
      A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
      OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
      SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
      LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
      DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
      THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
      (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
      OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

      Code generated by the Protocol Buffer compiler is owned by the owner
      of the input file used when generating it.  This code is not
      standalone and requires a support library to be linked with it.  This
      support library is itself covered by the above license.
  * HOMEPAGE:
    * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
```

```
    * license/LICENSE.bouncycastle.txt (MIT License)
    Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
                  (https://www.bouncycastle.org)

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.
  * HOMEPAGE:
    * https://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
      Copyright 2011, Google Inc.
      All rights reserved.

      Redistribution and use in source and binary forms, with or without
      modification, are permitted provided that the following conditions are
      met:

      * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following disclaimer
      in the documentation and/or other materials provided with the
      distribution.
      * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

      THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
      "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
      LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
      A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
      OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
      SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
      LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
      DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
      THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
      (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
      OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling

This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/twitter/hpack

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:
```

```
  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
    The MIT License (MIT)

    Copyright (c) 2014 Cory Benfield

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:

  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
    The MIT License

    Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
    Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

    Permission is hereby granted, free of charge, to any person obtaining
    a copy of this software and associated documentation files (the
    "Software"), to deal in the Software without restriction, including
    without limitation the rights to use, copy, modify, merge, publish,
    distribute, sublicense, and/or sell copies of the Software, and to
    permit persons to whom the Software is furnished to do so, subject to
    the following conditions:

    The above copyright notice and this permission notice shall be
    included in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
    EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
    LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
```

```
    OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
    WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/

This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/


This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
 = License text for Apache 2.0
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper

This product contains the dnsinfo.h header file, that provides a way to
 retrieve the system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
    /*
    * Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights
 reserved.
    *
    * @APPLE_LICENSE_HEADER_START@
    *
    * This file contains Original Code and/or Modifications of Original Code
    * as defined in and that are subject to the Apple Public Source License
    * Version 2.0 (the 'License'). You may not use this file except in
    * compliance with the License. Please obtain a copy of the License at
    * https://www.opensource.apple.com/apsl/ and read it before using this
    * file.
    *
    * The Original Code and all software distributed under the License are
    * distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
    * EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
    * INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
    * FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
    * Please see the License for the specific language governing rights and
    * limitations under the License.
    *
    * @APPLE_LICENSE_HEADER_END@
    */
  * HOMEPAGE:
    * https://www.opensource.apple.com/source/configd/configd-453.19/
dnsinfo/dnsinfo.h

This product optionally depends on 'Brotli4j', Brotli compression and
decompression for Java., which can be obtained at:

  * LICENSE:
```

```
    * license/LICENSE.brotli4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/hyperxpro/Brotli4j


______________________
com.google.guava:guava
com.google.guava:failureaccess
com.google.guava:listenablefuture
______________________

Copyright (C) 2020 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License.

= License text for Apache 2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.

_____________________________________________
com.google.errorprone:error_prone_annotations
_____________________________________________

Copyright 2015 The Error Prone Authors.

Licensed under the Apache License, Version 2.0 (the "License");

 = License text for Apache 2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

________________________
io.perfmark:perfmark-api
________________________

Copyright 2019 Google LLC

Licensed under the Apache License, Version 2.0 (the "License");

 = License text for Apache 2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-----------------------------------------------------------------------

This product contains a modified portion of 'Catapult', an open source
Trace Event viewer for Chome, Linux, and Android applications, which can
be obtained at:
```

```
  * LICENSE:
    * traceviewer/src/main/resources/io/perfmark/traceviewer/third_party/
catapult/LICENSE (New BSD License)
    Copyright 2015 The Chromium Authors. All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
 met:

    * Redistributions of source code must retain the above copyright notice,
 this
      list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.

    * Neither the name of catapult nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE
    DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR
    SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
    OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/catapult-project/catapult

This product contains a modified portion of 'Polymer', a library for Web
Components, which can be obtained at:
  * LICENSE:
    * traceviewer/src/main/resources/io/perfmark/traceviewer/third_party/
polymer/LICENSE (New BSD License)
      // Copyright (c) 2017 The Polymer Authors. All rights reserved.
      //
      // Redistribution and use in source and binary forms, with or without
      // modification, are permitted provided that the following conditions
 are
      // met:
      //
      //    * Redistributions of source code must retain the above copyright
      // notice, this list of conditions and the following disclaimer.
      //    * Redistributions in binary form must reproduce the above
      // copyright notice, this list of conditions and the following
 disclaimer
      // in the documentation and/or other materials provided with the
```

```
      // distribution.
      //    * Neither the name of Google Inc. nor the names of its
      // contributors may be used to endorse or promote products derived
 from
      // this software without specific prior written permission.
      //
      // THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
      // "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
      // LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 FOR
      // A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT
      // OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL,
      // SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
      // LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
      // DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
 ANY
      // THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
      // (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
      // OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
  * HOMEPAGE:
    * https://github.com/Polymer/polymer


This product contains a modified portion of 'ASM', an open source
Java Bytecode library, which can be obtained at:

  * LICENSE:
    * agent/src/main/resources/io/perfmark/agent/third_party/asm/LICENSE
 (BSD style License)
    ASM is released under the following 3-Clause BSD License:

    ASM: a very small and fast Java bytecode manipulation framework
    Copyright (c) 2000-2011 INRIA, France Telecom
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    3. Neither the name of the copyright holders nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
    LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
    SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
    INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
    CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
```

```
    ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
    THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://asm.ow2.io/

_______________________________
com.google.code.findbugs:jsr305
_______________________________

Copyright (c) 2005, Brian Goetz and Tim Peierls

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

___________________________
com.google.code.gson:gson
___________________________
/*
 * Copyright (C) 2008 Google Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * = License text for Apache 2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

___________________________
com.google.android:annotations
___________________________
/**
 * Copyright (C) 2010-2016 eBusiness Information, Excilys Group
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may
 not
 * use this file except in compliance with the License. You may obtain a
 copy of
 * the License at
 *
 * = License text for Apache 2.0
 *
 * Unless required by applicable law or agreed To in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 under
 * the License.
 */

___________________________
org.codehaus.mojo:animal-sniffer-annotations
___________________________
/*
 * The MIT License
 *
 * Copyright (c) 2008 Kohsuke Kawaguchi and codehaus.org.
 *
```

```
 * Permission is hereby granted, free of charge, to any person obtaining a
 copy
 * of this software and associated documentation files (the "Software"), to
 deal
 * in the Software without restriction, including without limitation the
 rights
 * to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 * copies of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 * THE SOFTWARE.
 *
 */

_______________________________________
com.google.j2objc:j2objc-annotations
_______________________________________
/*
 * Copyright 2012 Google Inc. All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * = License text for Apache 2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Provider: The gRPC Authors / Component(s): grpc-protobuf 1.33.0

```
grpc-protobuf:jar:1.33.0
grpc:grpc-api:jar:1.33.0
grpc-protobuf-lite:jar:1.33.0

Copyright 2014 The gRPC Authors
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

```
--------------------------------------------------------------------------
This product contains a modified portion of 'OkHttp', an open source
HTTP & SPDY client for Android and Java applications, which can be obtained
at:
  * LICENSE:
    * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/square/okhttp
  * LOCATION_IN_GRPC:
    * okhttp/third_party/okhttp
This product contains a modified portion of 'Envoy', an open source
cloud-native high-performance edge/middle/service proxy, which can be
obtained at:
  * LICENSE:
    * xds/third_party/envoy/LICENSE (Apache License 2.0)
  * NOTICE:
    * xds/third_party/envoy/NOTICE
  * HOMEPAGE:
    * https://www.envoyproxy.io
  * LOCATION_IN_GRPC:
    * xds/third_party/envoy
This product contains a modified portion of 'protoc-gen-validate (PGV)',
an open source protoc plugin to generate polyglot message validators,
which can be obtained at:
  * LICENSE:
    * xds/third_party/protoc-gen-validate/LICENSE (Apache License 2.0)
  * NOTICE:
      * xds/third_party/protoc-gen-validate/NOTICE
  * HOMEPAGE:
    * https://github.com/envoyproxy/protoc-gen-validate
  * LOCATION_IN_GRPC:
    * xds/third_party/protoc-gen-validate
This product contains a modified portion of 'udpa',
an open source universal data plane API, which can be obtained at:
  * LICENSE:
    * xds/third_party/udpa/LICENSE (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/cncf/udpa
  * LOCATION_IN_GRPC:
    * xds/third_party/udpa


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
```

```
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


jsr305:jar:3.0.2

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

The JSR-305 reference implementation (lib/jsr305.jar) is
distributed under the terms of the New BSD license:

  http://www.opensource.org/licenses/bsd-license.php
```

```
See the JSR-305 home page for more information:

  http://code.google.com/p/jsr-305/


protobuf-java:jar:3.13.0

Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license


proto-google-common-protos:jar:1.17.0

// Copyright 2019 Google LLC.
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     http://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

//


guava:jar:29.0-android

/*
```

```
 * Copyright (C) 2008 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

error_prone_annotations:jar:2.3.4

/*
 * Copyright 2012 The Error Prone Authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */


animal-sniffer-annotations:jar:1.18

The MIT License
Copyright (c) 2009 codehaus.org.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

failureaccess:jar:1.0.1
9999.0-empty-to-avoid-conflict-with-guava

/*
 * Copyright (C) 2008 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
```

```
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */


checker-compat-qual:jar:2.5.5
The Checker Framework
Copyright 2004-present by the Checker Framework developers
MIT License:
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


j2objc-annotations:jar:1.3
/*
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

--------------------------------------------------------------------------------
The next section, BSD-3-Clause, applies to the files in:
```

```
jre_emul/android/platform/libcore/ojluni/src/main/java/java/time
-------------------------------------------------------------------------------
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of JSR-310 nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The gRPC Authors / Component(s): grpc-stub 1.57.1

```
###############################################################################
Top Level Licence - grpc-stub
###############################################################################

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

################################################################################
Top Level Notices - grpc-stub
################################################################################
Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
```

```
limitations under the License.

================================================================================
4P Dependency Licences and Notices
================================================================================
== NAME OF DEPENDENCY 1
io.grpc:grpc-api

== License Type
Apache License Version 2.0
== Copyright Notices
Copyright 2014 The gRPC Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 2
com.google.errorprone:error_prone_annotations
== License Type
Apache License Version 2.0
== Copyright Notices
Copyright 2015 The Error Prone Authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
---------------------------------(separator)---------------------------------
== NAME OF DEPENDENCY 3
com.google.guava:guava
== License Type
Apache License Version 2.0
== Copyright Notices
Copyright (C) 2020 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
```

```
the License.
```

Provider: The Guava Authors / Component(s): Guava 33.0.0

```
Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


   Apache License Version 2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

======================================================================

+--- 4th party: com.google.guava:failureaccess

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>
======================================================================

+--- 4th party: com.google.guava:listenablefuture

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>
=====================================================================

+--- 4th party: com.google.code.findbugs:jsr305
Copyright: JSR305 expert group
License: BSD 3-Clause

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

==  jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
```

```
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

   ==========================================================================
+--- 4th party: com.google.errorprone:error_prone_annotations

Copyright 2015 The Error Prone Authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

  < Apache License Version 2.0>

+--- 4th party: com.google.j2objc:j2objc-annotations

Google Inc.
Daniel Connelly

Copyright 2012 Google Inc. All Rights Reserved.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>

==============================================================================

+--- 4th party: org.checkerframework:checker-qual

Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

==========================================================================
```

Provider: The Guava Authors / Component(s): Guava 33.2.1

```
Copyright (C) 2020 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


   Apache License Version 2.0
                               Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

=====================================================================

+--- 4th party: com.google.guava:failureaccess

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>
=====================================================================

+--- 4th party: com.google.guava:listenablefuture

Copyright (C) 2018 The Guava Authors

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   < Apache License Version 2.0>
=====================================================================

+--- 4th party: com.google.code.findbugs:jsr305
Copyright: JSR305 expert group
License: BSD 3-Clause

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

==  jcip-annotations relicensed to Oracle under BSD 3-clause license

Copyright (c) 2005, Brian Goetz and Tim Peierls
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

   ==========================================================================
+--- 4th party: com.google.errorprone:error_prone_annotations

Copyright 2015 The Error Prone Authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

  < Apache License Version 2.0>

+--- 4th party: com.google.j2objc:j2objc-annotations

Google Inc.
Daniel Connelly

Copyright 2012 Google Inc. All Rights Reserved.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.

   < Apache License Version 2.0>

==============================================================================

+--- 4th party: org.checkerframework:checker-qual

Copyright 2004-present by the Checker Framework developers

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

==============================================================================
```

Provider: The HuggingFace Team / Component(s): optimum 1.17.1

```
optimum
===================================Third Party
 Info===================================
Apache Software License
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
```

```
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

===================================Fourth Party
 Info===================================

----------------------------------------------
aiohttp
==============================================
Apache Software License

   Copyright aio-libs contributors.
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------------------------------------------
aiosignal
==============================================
Apache Software License 2.0

----------------------------------------------
attrs
==============================================
MIT License
The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the attrs contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
certifi
==============================================
Mozilla Public License 2.0 (MPL 2.0)
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#
```

```
***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

----------------------------------------------
charset-normalizer
==============================================
MIT License
MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
----------------------------------------------
coloredlogs
==============================================
MIT License
Copyright (c) 2020 Peter Odding

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
----------------------------------------------
datasets
==============================================
Apache Software License

----------------------------------------------
dill
BSD License
Copyright (c) 2004-2016 California Institute of Technology.
Copyright (c) 2016-2024 The Uncertainty Quantification Foundation.
All rights reserved.

This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    - Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------------------------------
filelock
==============================================
The Unlicense (Unlicense)
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

----------------------------------------------
frozenlist
==============================================
Apache License 2.0



----------------------------------------------
fsspec
==============================================
BSD License
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
huggingface-hub
==============================================
Apache License 2.0



----------------------------------------------
humanfriendly
```

```
==============================================
MIT License
Copyright (c) 2021 Peter Odding

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
idna
==============================================
BSD License
BSD 3-Clause License

Copyright (c) 2013-2023, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
jinja2
==============================================
BSD License
Copyright 2007 Pallets
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
markupsafe
==============================================
BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
mpmath
==============================================
```

```
BSD License
Copyright (c) 2005-2021 Fredrik Johansson and mpmath contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

----------------------------------------------
multidict
==============================================
Apache Software License
Copyright 2016 Andrew Svetlov and aio-libs contributors

----------------------------------------------
multiprocess
==============================================
BSD License
Copyright (c) 2006-2008, R Oudkerk

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of author nor the names of any contributors may be
   used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
```

```
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

----------------------------------------------
networkx
==============================================
BSD License
NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2023, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------------------------------
packaging
==============================================
Apache Software License; BSD License
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

LICENSE.BSD
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
pandas
==============================================
BSD License
BSD 3-Clause License

Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2023, Open source contributors.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
----------------------------------------------
pyarrow
==============================================
Apache License 2.0

----------------------------------------------
pyarrow-hotfix
==============================================
Apache License, Version 2.0


----------------------------------------------
python-dateutil
==============================================
Apache Software License; BSD License
Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
```

```
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.
----------------------------------------------
pytz
MIT License
Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

----------------------------------------------
pyyaml
MIT License
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
----------------------------------------------
regex

This work was derived from the 're' module of CPython 2.6 and CPython 3.1,
copyright (c) 1998-2001 by Secret Labs AB and licensed under CNRI's Python
 1.6
license.

All additions and alterations are licensed under the Apache 2.0 License.



==================================================================
Safetensors
==================================================================
Apache License 2.0

-------------------------------------------------------------

requests - Apache 2.0
==========================================================================================
Apache License 2.0
Copyright 2019 Kenneth Reitz

----------------------------------------------
six
==============================================
MIT License
Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
sympy
==============================================
BSD License
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:

Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
```

```
are licensed as:

Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
```

```
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


-----------------------------------------------
tqdm
==========================================================
MIT License; Mozilla Public License 2.0 (MPL 2.0)
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
```

```
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------
transformers
=======================================================
Apache License 2.0



------------------------------------------------
tzdata
=======================================================
Apache License 2.0

------------------------------------------------
urllib3
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
xxhash
BSD License
Copyright (c) 2014-2020, Yue Du
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
yarl
Apache License 2.0

----------------------------------------------
tokenizers
Apache License 2.0
====================================================================

====================================================================
PyTorch
====================================================================

Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
```

```
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
```

```
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


##############################################

Name: FP16
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------

Name: FXdiv
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2016-2017 Marat Dukhan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



Name: NNPACK
License: BSD-2-Clause

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

Name: QNNPACK
License: BSD-3-Clause

BSD License

For QNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------------------------------------------------------

Name: XNNPACK
License: BSD-3-Clause

BSD License

For XNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.
Copyright 2019 Google LLC

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
------------------------------------------------------------

Name: benchmark
License: Apache-2.0


------------------------------------------------------------

Name: clog
License: BSD-2-Clause
Files: third_party/cpuinfo/deps/clog

Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------------------------------------------------------

Name: cpuinfo
License: BSD-2-Clause

Copyright (c) 2019 Google LLC
Copyright (c) 2017-2018 Facebook Inc.
Copyright (C) 2012-2017 Georgia Institute of Technology
Copyright (C) 2010-2012 Marat Dukhan

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
```

```
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------------------------------------------------

Name: cudnn_frontend
License: MIT
Files: third_party/cudnn_frontend

/*
 * Copyright (c) 2020, NVIDIA CORPORATION. All rights reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 * copy of this software and associated documentation files (the
 "Software"),
 * to deal in the Software without restriction, including without limitation
 * the rights to use, copy, modify, merge, publish, distribute, sublicense,
 * and/or sell copies of the Software, and to permit persons to whom the
 * Software is furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 * THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 * DEALINGS IN THE SOFTWARE.
 */


-------------------------------------------------------

Name: dart
License: Apache-2.0

The code in lib/flat_buffers.dart is based on code that was releases under
 the
following license:

Copyright 2012, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

To the extent permissible, the changes to that code and the other assets in
this package are licensed under the Apache2 license.


------------------------------------------------------------

Name: eigen
License: BSD-3-Clause

/*
 Copyright (c) 2011, Intel Corporation. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification,
 are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name of Intel Corporation nor the names of its contributors
 may
   be used to endorse or promote products derived from this software without
   specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
 ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/


---------------------------------------------------------

Name: enum
License: BSD-3-Clause

Copyright (c) 2013, Ethan Furman.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    Redistributions of source code must retain the above
    copyright notice, this list of conditions and the
    following disclaimer.

    Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name Ethan Furman nor the names of any
    contributors may be used to endorse or promote products
    derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


---------------------------------------------------------

Name: fbgemm
License: BSD-3-Clause
Files: third_party/fbgemm
  For details, see: third_party/fbgemm/LICENSE

BSD License

For FBGEMM software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
```

```
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

Name: flatbuffers
License: Apache-2.0

-------------------------------------------------------------

Name: fmt
License: MIT with exception

Copyright (c) 2012 - present, Victor Zverovich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
```

```
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


----------------------------------------------------------

Name: foxi
License: MIT

MIT License

Copyright (c) 2019 Lu Fang

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



Name: gloo
License: BSD-3-Clause

BSD License

For Gloo software

Copyright (c) 2017-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------------------------------------------------

Name: ideep
License: MIT

Copyright (c) 2018 Intel Corporation.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.




Name: json
License: MIT

MIT License

Copyright (c) 2013-2021 Niels Lohmann

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------------------------------------------------------

Name: kineto
License: BSD-3-Clause

BSD License

For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------
```

```
Name: libnop
License: Apache-2.0

Copyright 2017 The Native Object Protocols Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

-------------------------------------------------------------

Name: libuv
License: MIT

libuv is licensed for use as follows:

====
Copyright (c) 2015-present libuv project contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
====

This license applies to parts of libuv originating from the
https://github.com/joyent/libuv repository:

====

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

====

This license applies to all parts of libuv that are not externally
maintained libraries.

The externally maintained libraries used by libuv are:

  - tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD license.

  - inet_pton and inet_ntop implementations, contained in src/inet.c, are
    copyright the Internet Systems Consortium, Inc., and licensed under the
 ISC
    license.

  - stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris. Three
    clause BSD license.

  - pthread-fixes.c, copyright Google Inc. and Sony Mobile Communications
 AB.
    Three clause BSD license.

  - android-ifaddrs.h, android-ifaddrs.c, copyright Berkeley Software Design
    Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant
 agreement
    n° 289016). Three clause BSD license.

--------------------------------------------------------

Name: miniz-2.1.0
License: MIT

Copyright 2013-2014 RAD Game Tools and Valve Software
Copyright 2010-2014 Rich Geldreich and Tenacious Software LLC

All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------
```

```
Name: mkl-dnn
License: Apache-2.0

-------------------------------------------------------

Name: nccl
License: BSD-3-Clause


 Copyright (c) 2015-2020, NVIDIA CORPORATION. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  * Neither the name of NVIDIA CORPORATION, Lawrence Berkeley National
    Laboratory, the U.S. Department of Energy, nor the names of their
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 The U.S. Department of Energy funded the development of this software
 under subcontract 7078610 with Lawrence Berkeley National Laboratory.


This code also includes files from the NVIDIA Tools Extension SDK project.

See:

   https://github.com/NVIDIA/NVTX

for more information and license details.

-------------------------------------------------------

Name: neon2sse
License: BSD-Source-Code

created by Victoria Zhislina, the Senior Application Engineer, Intel
 Corporation,  victoria.zhislina@intel.com

*** Copyright (C) 2012-2016 Intel Corporation.  All rights reserved.

IMPORTANT: READ BEFORE DOWNLOADING, COPYING, INSTALLING OR USING.

By downloading, copying, installing or using the software you agree to this
 license.
If you do not agree to this license, do not download, install, copy or use
 the software.
```

```
                              License Agreement
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

 * The name of the copyright holders may not be used to endorse or promote
 products
   derived from this software without specific prior written permission.

This software is provided by the copyright holders and contributors "as is"
 and
any express or implied warranties, including, but not limited to, the
 implied
warranties of merchantability and fitness for a particular purpose are
 disclaimed.
In no event shall the Intel Corporation or contributors be liable for any
 direct,
indirect, incidental, special, exemplary, or consequential damages
(including, but not limited to, procurement of substitute goods or services;
loss of use, data, or profits; or business interruption) however caused
and on any theory of liability, whether in contract, strict liability,
or tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of such damage.



Name: onnx
License: Apache-2.0

----------------------------------------------------------

Name: onnx-tensorrt
License: MIT

MIT License

Copyright (c) 2018, NVIDIA CORPORATION. All rights reserved.
Copyright (c) 2018 Open Neural Network Exchange

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
------------------------------------------------------------

Name: protobuf
License: BSD-3-Clause

Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

------------------------------------------------------------

Name: psimd
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2014-2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
```

```
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-------------------------------------------------------

Name: pthreadpool
License: BSD-2-Clause

Copyright 2019 Google LLC
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017 Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------------------------------------------------

Name: pybind11
License: BSD-3-Clause

Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file .github/CONTRIBUTING.md, which clarifies
 licensing of
external contributions to this project including patches, pull requests,
 etc.


------------------------------------------------------------

Name: python-peachpy
License: BSD-2-Clause

==============================
PeachPy license (2-clause BSD)
==============================

Copyright (c) 2017, Facebook Inc.
Copyright (c) 2013-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

Name: python-six
License: MIT

Copyright (c) 2010-2017 Benjamin Peterson
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------------------

Name: sleef
License: BSL-1.0

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

------------------------------------------------------------

Name: swift
License: Apache-2.0

------------------------------------------------------------

Name: tb_plugin
License: BSD-3-Clause
```

```
BSD License

For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------

Name: tbb
License: Apache-2.0

---------------------------------------------------------

Name: tensorpipe
License: BSD-3-Clause

BSD License

For TensorPipe software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
```

```
 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Meta nor the names of its contributors may be used to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------

Name: zstd
License: BSD-3-Clause

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
```

```
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


====================================================================
numpy
====================================================================
numpy

BSD 3 clause
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------

Numpy bundeled dependencies licenses

This binary distribution of NumPy also bundles the following software:
Name: OpenBLAS
Files: .libs/libopenb*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
     1. Redistributions of source code must retain the above copyright
```

```
        notice, this list of conditions and the following disclaimer.
     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.
  $COPYRIGHT$
  Additional copyrights may follow
  $HEADER$
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.
  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- Bundled licenses in numpy (BSD 3-Clause "New" or "Revised"
 License) [https://github.com/numpy/numpy] -----------
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------------------------------------------------------------------------

Name: lapack-lite
License: BSD-3-Clause

Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
```

```
The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: tempita
License: MIT

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------
Name: dragon4
License: MIT

Copyright (c) 2014 Ryan Juckett

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: libdivide
License: Zlib

zlib License
------------

Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
    claim that you wrote the original software. If you use this software
    in a product, an acknowledgment in the product documentation would be
    appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
    misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.


-------------------------------------------------------
-------------------------------------------------------------------------------
LICENSES_bundled in different directories:
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
```

```
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------


Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

-------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------------------

Name: MT19937
```

```
Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.
```

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk, kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal with the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimers in the documentation and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may be used to endorse or promote products derived from this Software without specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

-------------------------------------------------------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
```

```
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The HuggingFace Team / Component(s): State of the art Parameter Efficient Fine Tuning (PEFT) methods 0.12.0

```
peft
Copyright 2023 The HuggingFace Team. All rights reserved.
----------------------------------=Third Party
 Info-----------------------------------                    Apache Software
 License
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
```

```
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
```

```
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------=Fourth Party
 Info------------------------------------
accelerate
Apache License Version 2.0
------------------------------------

certifi
------------------------------------Mozilla Public License 2.0 (MPL 2.0)
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

------------------------------------charset-normalizer
------------------------------------MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------filelock
-----------------------------------The Unlicense (Unlicense)
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

-----------------------------------fsspec
-----------------------------------BSD License
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
```

```
* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------huggingface-hub
-----------------------------------Apache Software License Version 2.0


-----------------------------------idna
-----------------------------------BSD License
BSD 3-Clause License

Copyright (c) 2013-2023, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------jinja2
-----------------------------------BSD License
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------markupsafe
-----------------------------------BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------mpmath
-----------------------------------BSD License
Copyright (c) 2005-2021 Fredrik Johansson and mpmath contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
```

```
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

-----------------------------------networkx
-----------------------------------BSD License
NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2023, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-----------------------------------packaging
-----------------------------------Apache Software License; BSD License
This software is made available under the terms of *either* of the licenses
```

```
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.


-----------------------------------psutil
-----------------------------------BSD License
BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------pyyaml
-----------------------------------MIT License
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
```

```
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------regex
-----------------------------------Apache Software License 2.0

This work was derived from the 're' module of CPython 2.6 and CPython 3.1,
copyright (c) 1998-2001 by Secret Labs AB and licensed under CNRI's Python
 1.6
license.

Copyright 2020 Matthew Barnett
All additions and alterations are licensed under the Apache 2.0 License.


-----------------------------------requests
-----------------------------------Copyright 2019 Kenneth Reitz
Apache License Version 2.0


-----------------------------------safetensors
-----------------------------------Apache License Version 2.0


-----------------------------------sympy
-----------------------------------BSD License
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
```

```
----------------------------------=----------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:

BSD-3-Clause License
Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

----------------------------------=----------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:

BSD-3-Clause License
Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

----------------------------------=----------------------------------

The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

BSD-3-Clause License
Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------=----------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

The MIT License (MIT)
Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------tokenizers
-----------------------------------Apache License Version 2.0


-----------------------------------tqdm
-----------------------------------MIT License; Mozilla Public License 2.0
 (MPL 2.0)
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------=-

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------transformers
-----------------------------------Apache License Version 2.0
Copyright 2018- The Hugging Face team. All rights reserved.


-----------------------------------typing-extensions
-----------------------------------
A. HISTORY OF THE SOFTWARE
--------------------=-----
Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:
```

```
(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
---------------------------------------------------------------
Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
```

```
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.
```

```
7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
```

```
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
----------------------------------=----

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
----------------------------------=------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.


-----------------------------------urllib3
-----------------------------------MIT License
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

--------------------------------------------------------------------------------
=-----PyTorch
----------------------------------------------------------------=-----
Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
```

```
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


##################################################

Name: FP16
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------------=-----------

Name: FXdiv
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2016-2017 Marat Dukhan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



Name: NNPACK
License: BSD-2-Clause

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
-----------------------------------=-----------

Name: QNNPACK
License: BSD-3-Clause

BSD License

For QNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-----------------------------------=-----------

Name: XNNPACK
License: BSD-3-Clause

BSD License

For XNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.
Copyright 2019 Google LLC

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
```

```
 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------=-----------

Name: benchmark
License: Apache-2.0


----------------------------------=-----------

Name: clog
License: BSD-2-Clause
Files: third_party/cpuinfo/deps/clog

Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
```

```
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



-----------------------------------=-----------

Name: cpuinfo
License: BSD-2-Clause

Copyright (c) 2019 Google LLC
Copyright (c) 2017-2018 Facebook Inc.
Copyright (C) 2012-2017 Georgia Institute of Technology
Copyright (C) 2010-2012 Marat Dukhan

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-----------------------------------=-----------

Name: cudnn_frontend
License: MIT
Files: third_party/cudnn_frontend

/*
 * Copyright (c) 2020, NVIDIA CORPORATION. All rights reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 * copy of this software and associated documentation files (the
 "Software"),
 * to deal in the Software without restriction, including without limitation
 * the rights to use, copy, modify, merge, publish, distribute, sublicense,
 * and/or sell copies of the Software, and to permit persons to whom the
```

```
 * Software is furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 * THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 * DEALINGS IN THE SOFTWARE.
 */


----------------------------------=-----------

Name: dart
License: Apache-2.0

The code in lib/flat_buffers.dart is based on code that was releases under
 the
following license:

Copyright 2012, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

To the extent permissible, the changes to that code and the other assets in
this package are licensed under the Apache2 license.

----------------------------------=-----------

Name: eigen
License: BSD-3-Clause

/*
 Copyright (c) 2011, Intel Corporation. All rights reserved.
```

```
 Redistribution and use in source and binary forms, with or without
 modification,
 are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name of Intel Corporation nor the names of its contributors
 may
   be used to endorse or promote products derived from this software without
   specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
 ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/


-----------------------------------=-----------

Name: enum
License: BSD-3-Clause

Copyright (c) 2013, Ethan Furman.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    Redistributions of source code must retain the above
    copyright notice, this list of conditions and the
    following disclaimer.

    Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name Ethan Furman nor the names of any
    contributors may be used to endorse or promote products
    derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


----------------------------------=-----------

Name: fbgemm
License: BSD-3-Clause
Files: third_party/fbgemm
  For details, see: third_party/fbgemm/LICENSE

BSD License

For FBGEMM software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------=-----------

Name: flatbuffers
License: Apache-2.0


----------------------------------=-----------
```

```
Name: fmt
License: MIT with exception

Copyright (c) 2012 - present, Victor Zverovich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


-----------------------------------=-----------

Name: foxi
License: MIT

MIT License

Copyright (c) 2019 Lu Fang

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
Name: gloo
License: BSD-3-Clause

BSD License

For Gloo software

Copyright (c) 2017-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-----------------------------------=-----------

Name: ideep
License: MIT

Copyright (c) 2018 Intel Corporation.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.




Name: json
License: MIT

MIT License

Copyright (c) 2013-2021 Niels Lohmann

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------=-----------

Name: kineto
License: BSD-3-Clause

BSD License

For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
```

```
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------=-----------

Name: libnop
License: Apache-2.0

Copyright 2017 The Native Object Protocols Authors

-----------------------------------=-----------

Name: libuv
License: MIT

libuv is licensed for use as follows:

----
Copyright (c) 2015-present libuv project contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
----

This license applies to parts of libuv originating from the
https://github.com/joyent/libuv repository:
```

```
----

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

----

This license applies to all parts of libuv that are not externally
maintained libraries.

The externally maintained libraries used by libuv are:

  - tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD license.

  - inet_pton and inet_ntop implementations, contained in src/inet.c, are
    copyright the Internet Systems Consortium, Inc., and licensed under the
 ISC
    license.

  - stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris. Three
    clause BSD license.

  - pthread-fixes.c, copyright Google Inc. and Sony Mobile Communications
 AB.
    Three clause BSD license.

  - android-ifaddrs.h, android-ifaddrs.c, copyright Berkeley Software Design
    Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant
 agreement
    n° 289016). Three clause BSD license.

-----------------------------------=-----------

Name: miniz-2.1.0
License: MIT

Copyright 2013-2014 RAD Game Tools and Valve Software
Copyright 2010-2014 Rich Geldreich and Tenacious Software LLC

All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------=-----------

Name: mkl-dnn
License: Apache-2.0

----------------------------------=-----------

Name: nccl
License: BSD-3-Clause


 Copyright (c) 2015-2020, NVIDIA CORPORATION. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  * Neither the name of NVIDIA CORPORATION, Lawrence Berkeley National
    Laboratory, the U.S. Department of Energy, nor the names of their
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 The U.S. Department of Energy funded the development of this software
 under subcontract 7078610 with Lawrence Berkeley National Laboratory.


This code also includes files from the NVIDIA Tools Extension SDK project.

See:

   https://github.com/NVIDIA/NVTX

for more information and license details.
```

```
-----------------------------------=-----------

Name: neon2sse
License: BSD-Source-Code

created by Victoria Zhislina, the Senior Application Engineer, Intel
 Corporation,  victoria.zhislina@intel.com

*** Copyright (C) 2012-2016 Intel Corporation.  All rights reserved.

IMPORTANT: READ BEFORE DOWNLOADING, COPYING, INSTALLING OR USING.

By downloading, copying, installing or using the software you agree to this
 license.
If you do not agree to this license, do not download, install, copy or use
 the software.

                             License Agreement
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

 * The name of the copyright holders may not be used to endorse or promote
 products
   derived from this software without specific prior written permission.

This software is provided by the copyright holders and contributors "as is"
 and
any express or implied warranties, including, but not limited to, the
 implied
warranties of merchantability and fitness for a particular purpose are
 disclaimed.
In no event shall the Intel Corporation or contributors be liable for any
 direct,
indirect, incidental, special, exemplary, or consequential damages
(including, but not limited to, procurement of substitute goods or services;
loss of use, data, or profits; or business interruption) however caused
and on any theory of liability, whether in contract, strict liability,
or tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of such damage.



Name: onnx
License: Apache-2.0

-----------------------------------=-----------

Name: onnx-tensorrt
License: MIT

MIT License

Copyright (c) 2018, NVIDIA CORPORATION. All rights reserved.
Copyright (c) 2018 Open Neural Network Exchange

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------=-----------

Name: protobuf
License: BSD-3-Clause

Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

-----------------------------------=-----------

Name: psimd
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2014-2017 Georgia Institute of Technology
```

```
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------------=-----------

Name: pthreadpool
License: BSD-2-Clause

Copyright 2019 Google LLC
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017 Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------------------=-----------

Name: pybind11
License: BSD-3-Clause

Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file .github/CONTRIBUTING.md, which clarifies
 licensing of
external contributions to this project including patches, pull requests,
 etc.


-----------------------------------=-----------

Name: python-peachpy
License: BSD-2-Clause

-------------------------=-----PeachPy license (2-clause BSD)
-------------------------=-----
Copyright (c) 2017, Facebook Inc.
Copyright (c) 2013-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
```

```
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

----------------------------------=-----------

Name: python-six
License: MIT

Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------=-----------

Name: sleef
License: BSL-1.0

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
```

```
DEALINGS IN THE SOFTWARE.

----------------------------------=-----------

Name: swift
License: Apache-2.0

----------------------------------=-----------

Name: tb_plugin
License: BSD-3-Clause

BSD License

For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------=-----------

Name: tbb
License: Apache-2.0

----------------------------------=-----------

Name: tensorpipe
License: BSD-3-Clause
```

```
BSD License

For TensorPipe software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Meta nor the names of its contributors may be used to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------=-----------

Name: zstd
License: BSD-3-Clause

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------


-----numpy
-----numpy

BSD 3 clause
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------

Numpy bundeled dependencies licenses
```

```
This binary distribution of NumPy also bundles the following software:
Name: OpenBLAS
Files: .libs/libopenb*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.
  $COPYRIGHT$
  Additional copyrights may follow
  $HEADER$
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.
  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
```

```
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- Bundled licenses in numpy (BSD 3-Clause "New" or "Revised"
 License) [https://github.com/numpy/numpy] -----------
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------------------------
Name: lapack-lite
License: BSD-3-Clause

Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
```

```
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------
Name: tempita
License: MIT

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


--------------------------------
Name: dragon4
License: MIT

Copyright (c) 2014 Ryan Juckett

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
```

```
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

----------------------------------=----------------------------------
Name: libdivide
License: Zlib

zlib License
------------

Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
    claim that you wrote the original software. If you use this software
    in a product, an acknowledgment in the product documentation would be
    appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
    misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.


----------------------------------=------------
----------------------------------=------------------------------------
LICENSES_bundled in different directories:
----------------------------------=------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
```

```
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------


Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

----------------------------------=--------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
```

```
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------------=--------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

----------------------------------=------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------------=----------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------------=-------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------------=------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

----------------------------------=--------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
```

```
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
```

Provider: The HuggingFace Team / Component(s): State of the art Parameter Efficient Fine Tuning (PEFT) methods 0.8.2

```
peft
===================================Third Party
 Info===================================
                   Apache Software License
                               Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

===================================Fourth Party
 Info===================================

accelerate
Apache License Version 2.0
===================================


certifi
===================================
Mozilla Public License 2.0 (MPL 2.0)
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
```

```
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

===================================
charset-normalizer
===================================
MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

===================================
filelock
===================================
The Unlicense (Unlicense)
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>
```

```
====================================
fsspec
====================================
BSD License
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

====================================
huggingface-hub
====================================
Apache Software License Version 2.0


====================================
idna
====================================
BSD License
BSD 3-Clause License

Copyright (c) 2013-2023, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
```

```
3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===================================
jinja2
===================================
BSD License
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===================================
markupsafe
===================================
BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
```

```
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

====================================
mpmath
====================================
BSD License
Copyright (c) 2005-2021 Fredrik Johansson and mpmath contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

====================================
networkx
====================================
BSD License
NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2023, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.
```

```
   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


====================================
packaging
====================================
Apache Software License; BSD License
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.


====================================
psutil
====================================
BSD License
BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===================================
pyyaml
===================================
MIT License
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

===================================
regex
===================================
Apache Software License

This work was derived from the 're' module of CPython 2.6 and CPython 3.1,
copyright (c) 1998-2001 by Secret Labs AB and licensed under CNRI's Python
 1.6
license.

Copyright 2020 Matthew Barnett
All additions and alterations are licensed under the Apache 2.0 License.
```

```
====================================
requests
====================================
Copyright 2019 Kenneth Reitz
Apache License Version 2.0


====================================
safetensors
====================================
Apache License Version 2.0


====================================
sympy
====================================
BSD License
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

====================================----------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:

BSD-3-Clause License
Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
```

```
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

====================================-----------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:

BSD-3-Clause License
Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

====================================-----------------------------------

The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

BSD-3-Clause License
Copyright (c) 2009-2023, PyDy Authors
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===================================----------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

The MIT License (MIT)
Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

===================================
tokenizers
===================================
Apache License Version 2.0
```

```
====================================
tqdm
====================================
MIT License; Mozilla Public License 2.0 (MPL 2.0)
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
===================================-

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====================================
```

```
transformers
===================================
Apache License Version 2.0
Copyright 2018- The Hugging Face team. All rights reserved.


===================================
typing-extensions
===================================

A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.
```

```
Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
```

```
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
```

```
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT
```

```
CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
======================================----

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
=====================================-----------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.


===================================
urllib3
===================================
MIT License
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

====================================
=====================================================================
PyTorch
=====================================================================

Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


##############################################

Name: FP16
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

========================================----------

Name: FXdiv
License: MIT
```

```
The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2016-2017 Marat Dukhan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



Name: NNPACK
License: BSD-2-Clause

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=========================================----------

Name: QNNPACK
License: BSD-3-Clause

BSD License
```

```
For QNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


========================================----------

Name: XNNPACK
License: BSD-3-Clause

BSD License

For XNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.
Copyright 2019 Google LLC

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====================================----------

Name: benchmark
License: Apache-2.0


=====================================----------

Name: clog
License: BSD-2-Clause
Files: third_party/cpuinfo/deps/clog

Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
=========================================----------

Name: cpuinfo
License: BSD-2-Clause

Copyright (c) 2019 Google LLC
Copyright (c) 2017-2018 Facebook Inc.
Copyright (C) 2012-2017 Georgia Institute of Technology
Copyright (C) 2010-2012 Marat Dukhan

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


=========================================----------

Name: cudnn_frontend
License: MIT
Files: third_party/cudnn_frontend

/*
 * Copyright (c) 2020, NVIDIA CORPORATION. All rights reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 * copy of this software and associated documentation files (the
 "Software"),
 * to deal in the Software without restriction, including without limitation
 * the rights to use, copy, modify, merge, publish, distribute, sublicense,
 * and/or sell copies of the Software, and to permit persons to whom the
 * Software is furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
```

```
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 * THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 * DEALINGS IN THE SOFTWARE.
 */


=====================================-----------

Name: dart
License: Apache-2.0

The code in lib/flat_buffers.dart is based on code that was releases under
 the
following license:

Copyright 2012, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

To the extent permissible, the changes to that code and the other assets in
this package are licensed under the Apache2 license.

=====================================-----------

Name: eigen
License: BSD-3-Clause

/*
 Copyright (c) 2011, Intel Corporation. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification,
 are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
```

```
   and/or other materials provided with the distribution.
 * Neither the name of Intel Corporation nor the names of its contributors
 may
   be used to endorse or promote products derived from this software without
   specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
 ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/


=====================================----------

Name: enum
License: BSD-3-Clause

Copyright (c) 2013, Ethan Furman.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    Redistributions of source code must retain the above
    copyright notice, this list of conditions and the
    following disclaimer.

    Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name Ethan Furman nor the names of any
    contributors may be used to endorse or promote products
    derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
```

```
========================================----------

Name: fbgemm
License: BSD-3-Clause
Files: third_party/fbgemm
  For details, see: third_party/fbgemm/LICENSE

BSD License

For FBGEMM software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

========================================----------

Name: flatbuffers
License: Apache-2.0


========================================----------

Name: fmt
License: MIT with exception

Copyright (c) 2012 - present, Victor Zverovich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
```

```
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


========================================----------

Name: foxi
License: MIT

MIT License

Copyright (c) 2019 Lu Fang

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



Name: gloo
License: BSD-3-Clause

BSD License

For Gloo software
```

Copyright (c) 2017-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========----------

Name: ideep
License: MIT

Copyright (c) 2018 Intel Corporation.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

```
Name: json
License: MIT

MIT License

Copyright (c) 2013-2021 Niels Lohmann

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

========================================----------

Name: kineto
License: BSD-3-Clause

BSD License

For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====================================----------

Name: libnop
License: Apache-2.0

Copyright 2017 The Native Object Protocols Authors

=====================================----------

Name: libuv
License: MIT

libuv is licensed for use as follows:

====
Copyright (c) 2015-present libuv project contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
====

This license applies to parts of libuv originating from the
https://github.com/joyent/libuv repository:

====

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

====

This license applies to all parts of libuv that are not externally
maintained libraries.

The externally maintained libraries used by libuv are:

  - tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD license.

  - inet_pton and inet_ntop implementations, contained in src/inet.c, are
    copyright the Internet Systems Consortium, Inc., and licensed under the
 ISC
    license.

  - stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris. Three
    clause BSD license.

  - pthread-fixes.c, copyright Google Inc. and Sony Mobile Communications
 AB.
    Three clause BSD license.

  - android-ifaddrs.h, android-ifaddrs.c, copyright Berkeley Software Design
    Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant
 agreement
    n° 289016). Three clause BSD license.

=====================================----------

Name: miniz-2.1.0
License: MIT

Copyright 2013-2014 RAD Game Tools and Valve Software
Copyright 2010-2014 Rich Geldreich and Tenacious Software LLC

All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

========================================----------

Name: mkl-dnn
License: Apache-2.0

========================================----------

Name: nccl
License: BSD-3-Clause


 Copyright (c) 2015-2020, NVIDIA CORPORATION. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  * Neither the name of NVIDIA CORPORATION, Lawrence Berkeley National
    Laboratory, the U.S. Department of Energy, nor the names of their
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 The U.S. Department of Energy funded the development of this software
 under subcontract 7078610 with Lawrence Berkeley National Laboratory.


This code also includes files from the NVIDIA Tools Extension SDK project.

See:

   https://github.com/NVIDIA/NVTX

for more information and license details.

========================================----------

Name: neon2sse
License: BSD-Source-Code

created by Victoria Zhislina, the Senior Application Engineer, Intel
 Corporation,  victoria.zhislina@intel.com

*** Copyright (C) 2012-2016 Intel Corporation.  All rights reserved.
```

```
IMPORTANT: READ BEFORE DOWNLOADING, COPYING, INSTALLING OR USING.

By downloading, copying, installing or using the software you agree to this
 license.
If you do not agree to this license, do not download, install, copy or use
 the software.

                            License Agreement
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

 * The name of the copyright holders may not be used to endorse or promote
 products
   derived from this software without specific prior written permission.

This software is provided by the copyright holders and contributors "as is"
 and
any express or implied warranties, including, but not limited to, the
 implied
warranties of merchantability and fitness for a particular purpose are
 disclaimed.
In no event shall the Intel Corporation or contributors be liable for any
 direct,
indirect, incidental, special, exemplary, or consequential damages
(including, but not limited to, procurement of substitute goods or services;
loss of use, data, or profits; or business interruption) however caused
and on any theory of liability, whether in contract, strict liability,
or tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of such damage.



Name: onnx
License: Apache-2.0

========================================----------

Name: onnx-tensorrt
License: MIT

MIT License

Copyright (c) 2018, NVIDIA CORPORATION. All rights reserved.
Copyright (c) 2018 Open Neural Network Exchange

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

=====================================----------

Name: protobuf
License: BSD-3-Clause

Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

=====================================----------

Name: psimd
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2014-2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

=====================================-----------

Name: pthreadpool
License: BSD-2-Clause

Copyright 2019 Google LLC
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017 Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


=====================================-----------

Name: pybind11
License: BSD-3-Clause

Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file .github/CONTRIBUTING.md, which clarifies
 licensing of
external contributions to this project including patches, pull requests,
 etc.


========================================----------

Name: python-peachpy
License: BSD-2-Clause

==============================
PeachPy license (2-clause BSD)
==============================

Copyright (c) 2017, Facebook Inc.
Copyright (c) 2013-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

========================================----------
```

```
Name: python-six
License: MIT

Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

========================================----------

Name: sleef
License: BSL-1.0

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

========================================----------

Name: swift
License: Apache-2.0
```

```
========================================----------

Name: tb_plugin
License: BSD-3-Clause

BSD License

For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

========================================----------

Name: tbb
License: Apache-2.0

========================================----------

Name: tensorpipe
License: BSD-3-Clause

BSD License

For TensorPipe software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Meta nor the names of its contributors may be used to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

========================================----------

Name: zstd
License: BSD-3-Clause

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====================================-----------


=====================================================================
numpy
=====================================================================
numpy

BSD 3 clause
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------

Numpy bundeled dependencies licenses

This binary distribution of NumPy also bundles the following software:
Name: OpenBLAS
Files: .libs/libopenb*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
```

```
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.
  $COPYRIGHT$
  Additional copyrights may follow
  $HEADER$
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.
  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- Bundled licenses in numpy (BSD 3-Clause "New" or "Revised"
 License) [https://github.com/numpy/numpy] -----------
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

====================================--------------------------------
Name: lapack-lite
License: BSD-3-Clause

Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
```

```
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

====================================--------------------------------
Name: tempita
License: MIT

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


====================================--------------------------------
Name: dragon4
License: MIT

Copyright (c) 2014 Ryan Juckett

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

====================================--------------------------------
Name: libdivide
License: Zlib

zlib License
------------

Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
    claim that you wrote the original software. If you use this software
    in a product, an acknowledgment in the product documentation would be
    appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
    misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.


=====================================------------
====================================-------------------------------------
LICENSES_bundled in different directories:
====================================-------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
```

```
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------


Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

====================================--------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

====================================------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

====================================-----------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

====================================----------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
=====================================-------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

=====================================----------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

====================================--------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
```

```
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=========================================================================--------
```

Provider: The HuggingFace Team / Component(s): Transformers 4.43.3

```
Transformers - Apache 2.0
==========================================================================================
Copyright 2018- The HuggingFace team. All rights reserved.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
```

```
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
```

```
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
```

```
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


===================================== fourth party dependencies
 ========================================
================================================================================

filelock - http://unlicense.org
================================================================================

This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to http://unlicense.org
```

```
==================================================================================

huggingface-hub - Apache 2.0
Copyright 2023 The HuggingFace team. All rights reserved.
==================================================================================


Fsspec - BSD 3-Clause
==================================================================================

BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==================================================================================

packaging - Apache 2.0
==================================================================================

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.


   LICENSE.BSD:

   Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


==========================================================================================

pyyaml - MIT
==========================================================================================
MIT

Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==========================================================================================

requests - Apache 2.0
Copyright 2019 Kenneth Reitz
==========================================================================================
```

```
=====================================================================

certifi - Mozilla Public License
=====================================================================
certifi
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.
```

```
1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
```

```
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party's
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.
```

```
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
```

```
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
```

```
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by the Mozilla Public License, v. 2.0.

======================================================================

charset-normalizer - MIT
======================================================================

charset-normalizer

MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


======================================================================

idna - BSD 3-Clause License
======================================================================
idna

BSD 3-Clause License
```

Copyright (c) 2013-2021, Kim Davies All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

==========
urllib3 - MIT License
==========
urllib3

MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

```
==============================================================
tqdm
==============================================================
tqdm

`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPLv2.0 2015-2021 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py setup.py README.rst MANIFEST.in .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==============================================================
```

typing-extensions
==========

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

```
PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are
retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").
```

```
2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the Internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the Internet
using the following URL: http://hdl.handle.net/1895.22/1013".
```

```
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
```

```
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

=====================================================================
regex - Apache 2.0
=====================================================================
regex

This work was derived from the 're' module of CPython 2.6 and CPython 3.1,
copyright (c) 1998-2001 by Secret Labs AB and licensed under CNRI's Python
 1.6
license.

Copyright 2020 Matthew Barnett
All additions and alterations are licensed under the Apache 2.0 License.


=====================================================================
Safetensors - Apache License 2.0
Copyright 2018- The HuggingFace team. All rights reserved.
=====================================================================


=====================================================================
tokenizers - Apache License 2.0
Copyright 2018- The HuggingFace team. All rights reserved.
=====================================================================

=====================================================================
PyTorch
=====================================================================

Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain
```

```
All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


##############################################

Name: FP16
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology
Copyright 2019 Google LLC
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------

Name: FXdiv
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2016-2017 Marat Dukhan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



Name: NNPACK
License: BSD-2-Clause

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
```

```
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------

Name: QNNPACK
License: BSD-3-Clause

BSD License

For QNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------------------------------------------------
```

```
Name: XNNPACK
License: BSD-3-Clause

BSD License

For XNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.
Copyright 2019 Google LLC

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

Name: benchmark
License: Apache-2.0

-------------------------------------------------------------

Name: clog
License: BSD-2-Clause
Files: third_party/cpuinfo/deps/clog

Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



------------------------------------------------------------

Name: cpuinfo
License: BSD-2-Clause

Copyright (c) 2019 Google LLC
Copyright (c) 2017-2018 Facebook Inc.
Copyright (C) 2012-2017 Georgia Institute of Technology
Copyright (C) 2010-2012 Marat Dukhan

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


------------------------------------------------------------
```

```
Name: cudnn_frontend
License: MIT
Files: third_party/cudnn_frontend

/*
 * Copyright (c) 2020, NVIDIA CORPORATION. All rights reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 * copy of this software and associated documentation files (the
 "Software"),
 * to deal in the Software without restriction, including without limitation
 * the rights to use, copy, modify, merge, publish, distribute, sublicense,
 * and/or sell copies of the Software, and to permit persons to whom the
 * Software is furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 * THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 * DEALINGS IN THE SOFTWARE.
 */


-------------------------------------------------------

Name: dart
License: Apache-2.0

The code in lib/flat_buffers.dart is based on code that was releases under
 the
following license:

Copyright 2012, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
To the extent permissible, the changes to that code and the other assets in
this package are licensed under the Apache2 license.

----------------------------------------------------------

Name: eigen
License: BSD-3-Clause

/*
 Copyright (c) 2011, Intel Corporation. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification,
 are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name of Intel Corporation nor the names of its contributors
 may
   be used to endorse or promote products derived from this software without
   specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
 ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/


----------------------------------------------------------

Name: enum
License: BSD-3-Clause

Copyright (c) 2013, Ethan Furman.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    Redistributions of source code must retain the above
    copyright notice, this list of conditions and the
    following disclaimer.

    Redistributions in binary form must reproduce the above
```

```
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name Ethan Furman nor the names of any
    contributors may be used to endorse or promote products
    derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


------------------------------------------------------------

Name: fbgemm
License: BSD-3-Clause
Files: third_party/fbgemm
  For details, see: third_party/fbgemm/LICENSE

BSD License

For FBGEMM software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
```

```
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------------------

Name: flatbuffers
License: Apache-2.0


----------------------------------------------------------

Name: fmt
License: MIT with exception

Copyright (c) 2012 - present, Victor Zverovich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


----------------------------------------------------------

Name: foxi
License: MIT

MIT License

Copyright (c) 2019 Lu Fang

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



Name: gloo
License: BSD-3-Clause

BSD License

For Gloo software

Copyright (c) 2017-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


------------------------------------------------------------

Name: ideep
License: MIT
```

Copyright (c) 2018 Intel Corporation.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Name: json
License: MIT

MIT License

Copyright (c) 2013-2021 Niels Lohmann

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

Name: kineto
License: BSD-3-Clause

BSD License

For Kineto software

```
Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

Name: libnop
License: Apache-2.0

Copyright 2017 The Native Object Protocols Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

------------------------------------------------------------

Name: libuv
License: MIT

libuv is licensed for use as follows:
```

```
====
Copyright (c) 2015-present libuv project contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
====

This license applies to parts of libuv originating from the
https://github.com/joyent/libuv repository:

====

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

====

This license applies to all parts of libuv that are not externally
maintained libraries.

The externally maintained libraries used by libuv are:

  - tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD license.

  - inet_pton and inet_ntop implementations, contained in src/inet.c, are
    copyright the Internet Systems Consortium, Inc., and licensed under the
 ISC
    license.

  - stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris. Three
    clause BSD license.
```

```
  - pthread-fixes.c, copyright Google Inc. and Sony Mobile Communications
 AB.
    Three clause BSD license.

  - android-ifaddrs.h, android-ifaddrs.c, copyright Berkeley Software Design
    Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant
 agreement
    n° 289016). Three clause BSD license.

--------------------------------------------------------

Name: miniz-2.1.0
License: MIT

Copyright 2013-2014 RAD Game Tools and Valve Software
Copyright 2010-2014 Rich Geldreich and Tenacious Software LLC

All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

--------------------------------------------------------

Name: mkl-dnn
License: Apache-2.0

--------------------------------------------------------

Name: nccl
License: BSD-3-Clause


 Copyright (c) 2015-2020, NVIDIA CORPORATION. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  * Neither the name of NVIDIA CORPORATION, Lawrence Berkeley National
    Laboratory, the U.S. Department of Energy, nor the names of their
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.
```

```
 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 The U.S. Department of Energy funded the development of this software
 under subcontract 7078610 with Lawrence Berkeley National Laboratory.


This code also includes files from the NVIDIA Tools Extension SDK project.

See:

   https://github.com/NVIDIA/NVTX

for more information and license details.

-----------------------------------------------------------

Name: neon2sse
License: BSD-Source-Code

created by Victoria Zhislina, the Senior Application Engineer, Intel
 Corporation,  victoria.zhislina@intel.com

*** Copyright (C) 2012-2016 Intel Corporation.  All rights reserved.

IMPORTANT: READ BEFORE DOWNLOADING, COPYING, INSTALLING OR USING.

By downloading, copying, installing or using the software you agree to this
 license.
If you do not agree to this license, do not download, install, copy or use
 the software.

                              License Agreement
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

 * The name of the copyright holders may not be used to endorse or promote
 products
   derived from this software without specific prior written permission.

This software is provided by the copyright holders and contributors "as is"
 and
any express or implied warranties, including, but not limited to, the
 implied
warranties of merchantability and fitness for a particular purpose are
 disclaimed.
In no event shall the Intel Corporation or contributors be liable for any
 direct,
indirect, incidental, special, exemplary, or consequential damages
(including, but not limited to, procurement of substitute goods or services;
```

```
loss of use, data, or profits; or business interruption) however caused
and on any theory of liability, whether in contract, strict liability,
or tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of such damage.



Name: onnx
License: Apache-2.0

----------------------------------------------------------

Name: onnx-tensorrt
License: MIT

MIT License

Copyright (c) 2018, NVIDIA CORPORATION. All rights reserved.
Copyright (c) 2018 Open Neural Network Exchange

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------------------

Name: protobuf
License: BSD-3-Clause

Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

-----------------------------------------------------------

Name: psimd
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2014-2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------

Name: pthreadpool
License: BSD-2-Clause

Copyright 2019 Google LLC
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017 Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
```

```
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


------------------------------------------------------------

Name: pybind11
License: BSD-3-Clause

Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file .github/CONTRIBUTING.md, which clarifies
 licensing of
external contributions to this project including patches, pull requests,
 etc.


------------------------------------------------------------

Name: python-peachpy
```

```
License: BSD-2-Clause

==============================
PeachPy license (2-clause BSD)
==============================

Copyright (c) 2017, Facebook Inc.
Copyright (c) 2013-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

Name: python-six
License: MIT

Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
------------------------------------------------------------

Name: sleef
License: BSL-1.0

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

------------------------------------------------------------

Name: swift
License: Apache-2.0
------------------------------------------------------------

Name: tb_plugin
License: BSD-3-Clause

BSD License

For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------

Name: tbb
License: Apache-2.0

-------------------------------------------------------

Name: tensorpipe
License: BSD-3-Clause

BSD License

For TensorPipe software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Meta nor the names of its contributors may be used to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
```

```
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

Name: zstd
License: BSD-3-Clause

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


====================================================================
numpy
====================================================================
numpy

BSD 3 clause
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
```

```
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------

Numpy bundeled dependencies licenses

This binary distribution of NumPy also bundles the following software:
Name: OpenBLAS
Files: .libs/libopenb*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
```

```
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.
  $COPYRIGHT$
  Additional copyrights may follow
  $HEADER$
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.
  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- Bundled licenses in numpy (BSD 3-Clause "New" or "Revised"
 License) [https://github.com/numpy/numpy] -----------
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
```

```
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------------------------------------------------------------------------

Name: lapack-lite
License: BSD-3-Clause

Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: tempita
License: MIT

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
```

```
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------
Name: dragon4
License: MIT

Copyright (c) 2014 Ryan Juckett

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: libdivide
License: Zlib

zlib License
------------

Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
    claim that you wrote the original software. If you use this software
    in a product, an acknowledgment in the product documentation would be
    appreciated but is not required.
```

```
2. Altered source versions must be plainly marked as such, and must not be
    misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.


-------------------------------------------------------------
-------------------------------------------------------------------------------------
LICENSES_bundled in different directories:
-------------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------


Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)
```

```
To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

--------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
```

SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

```
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

----------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------

Name: Random
```

```
NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components
```

```
Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

---------------------------------------------------------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------------------
```

Provider: The HuggingFace Team / Component(s): Transformers 4.44.0

```
Transformers - Apache 2.0
==========================================================================================
Copyright 2018- The HuggingFace team. All rights reserved.


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


===================================== fourth party dependencies
 ========================================
==========================================================================================
```

```
filelock - http://unlicense.org
==================================================================================

This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to http://unlicense.org

==================================================================================

huggingface-hub - Apache 2.0
Copyright 2023 The HuggingFace team. All rights reserved.
==================================================================================


Fsspec - BSD 3-Clause
==================================================================================

BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
```

```
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

================================================================================

packaging - Apache 2.0
================================================================================

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.


   LICENSE.BSD:

   Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


================================================================================

pyyaml - MIT
================================================================================
MIT

Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
```

```
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


==========================================================================================

requests - Apache 2.0
Copyright 2019 Kenneth Reitz
==========================================================================================


=====================================================================

certifi - Mozilla Public License
=====================================================================
certifi
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

Mozilla Public License
Version 2.0
1. Definitions
```

```
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.
```

```
1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
```

```
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
```

```
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
```

```
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party's ability to bring cross-claims or
 counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by the Mozilla Public License, v. 2.0.

======================================================================

charset-normalizer - MIT
======================================================================

charset-normalizer

MIT License

Copyright (c) 2019 TAHRI Ahmed R.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


======================================================================

idna - BSD 3-Clause License
======================================================================
idna

BSD 3-Clause License

Copyright (c) 2013-2021, Kim Davies All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



======================================================================
urllib3 - MIT License
======================================================================
```

```
urllib3

MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


============================================================
tqdm
============================================================
tqdm

`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPLv2.0 2015-2021 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py setup.py README.rst MANIFEST.in .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
```

```
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

============================================================
typing-extensions
============================================================

A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property.  Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
```

```
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are
retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
```

```
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.
```

```
7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the Internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the Internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
```

```
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

=====================================================================
regex - Apache 2.0
=====================================================================
regex

This work was derived from the 're' module of CPython 2.6 and CPython 3.1,
copyright (c) 1998-2001 by Secret Labs AB and licensed under CNRI's Python
 1.6
license.

Copyright 2020 Matthew Barnett
All additions and alterations are licensed under the Apache 2.0 License.


=====================================================================
Safetensors - Apache License 2.0
Copyright 2018- The HuggingFace team. All rights reserved.
=====================================================================


=====================================================================
tokenizers - Apache License 2.0
Copyright 2018- The HuggingFace team. All rights reserved.
=====================================================================

=====================================================================
PyTorch
=====================================================================
```

```
Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
```

```
3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


##################################################

Name: FP16
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------

Name: FXdiv
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2016-2017 Marat Dukhan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



Name: NNPACK
License: BSD-2-Clause

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

Name: QNNPACK
License: BSD-3-Clause

BSD License

For QNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
```

```
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


------------------------------------------------------------

Name: XNNPACK
License: BSD-3-Clause

BSD License

For XNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.
Copyright 2019 Google LLC

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
```

```
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------

Name: benchmark
License: Apache-2.0

--------------------------------------------------------

Name: clog
License: BSD-2-Clause
Files: third_party/cpuinfo/deps/clog

Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



--------------------------------------------------------

Name: cpuinfo
License: BSD-2-Clause

Copyright (c) 2019 Google LLC
Copyright (c) 2017-2018 Facebook Inc.
Copyright (C) 2012-2017 Georgia Institute of Technology
Copyright (C) 2010-2012 Marat Dukhan
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


------------------------------------------------------------

Name: cudnn_frontend
License: MIT
Files: third_party/cudnn_frontend

/*
 * Copyright (c) 2020, NVIDIA CORPORATION. All rights reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 * copy of this software and associated documentation files (the
 "Software"),
 * to deal in the Software without restriction, including without limitation
 * the rights to use, copy, modify, merge, publish, distribute, sublicense,
 * and/or sell copies of the Software, and to permit persons to whom the
 * Software is furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 * THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 * DEALINGS IN THE SOFTWARE.
 */


------------------------------------------------------------

Name: dart
```

```
License: Apache-2.0

The code in lib/flat_buffers.dart is based on code that was releases under
 the
following license:

Copyright 2012, the Dart project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

To the extent permissible, the changes to that code and the other assets in
this package are licensed under the Apache2 license.

-----------------------------------------------------------

Name: eigen
License: BSD-3-Clause

/*
 Copyright (c) 2011, Intel Corporation. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification,
 are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name of Intel Corporation nor the names of its contributors
 may
   be used to endorse or promote products derived from this software without
   specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
```

```
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
 ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/


-------------------------------------------------------------

Name: enum
License: BSD-3-Clause

Copyright (c) 2013, Ethan Furman.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    Redistributions of source code must retain the above
    copyright notice, this list of conditions and the
    following disclaimer.

    Redistributions in binary form must reproduce the above
    copyright notice, this list of conditions and the following
    disclaimer in the documentation and/or other materials
    provided with the distribution.

    Neither the name Ethan Furman nor the names of any
    contributors may be used to endorse or promote products
    derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


-------------------------------------------------------------

Name: fbgemm
License: BSD-3-Clause
Files: third_party/fbgemm
  For details, see: third_party/fbgemm/LICENSE

BSD License

For FBGEMM software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

Name: flatbuffers
License: Apache-2.0


------------------------------------------------------------

Name: fmt
License: MIT with exception

Copyright (c) 2012 - present, Victor Zverovich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
```

```
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


------------------------------------------------------------

Name: foxi
License: MIT

MIT License

Copyright (c) 2019 Lu Fang

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



Name: gloo
License: BSD-3-Clause

BSD License

For Gloo software

Copyright (c) 2017-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
```

```
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


------------------------------------------------------------

Name: ideep
License: MIT

Copyright (c) 2018 Intel Corporation.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.




Name: json
License: MIT

MIT License

Copyright (c) 2013-2021 Niels Lohmann

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------------------------------------------------------

Name: kineto
License: BSD-3-Clause

BSD License

For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
```

```
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------------------

Name: libnop
License: Apache-2.0

Copyright 2017 The Native Object Protocols Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---------------------------------------------------------

Name: libuv
License: MIT

libuv is licensed for use as follows:

====
Copyright (c) 2015-present libuv project contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
====

This license applies to parts of libuv originating from the
https://github.com/joyent/libuv repository:

====

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

====

This license applies to all parts of libuv that are not externally
maintained libraries.

The externally maintained libraries used by libuv are:

  - tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD license.

  - inet_pton and inet_ntop implementations, contained in src/inet.c, are
    copyright the Internet Systems Consortium, Inc., and licensed under the
 ISC
    license.

  - stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris. Three
    clause BSD license.

  - pthread-fixes.c, copyright Google Inc. and Sony Mobile Communications
 AB.
    Three clause BSD license.

  - android-ifaddrs.h, android-ifaddrs.c, copyright Berkeley Software Design
    Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant
 agreement
    n° 289016). Three clause BSD license.

--------------------------------------------------------------

Name: miniz-2.1.0
License: MIT

Copyright 2013-2014 RAD Game Tools and Valve Software
Copyright 2010-2014 Rich Geldreich and Tenacious Software LLC

All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------------------

Name: mkl-dnn
License: Apache-2.0

----------------------------------------------------------

Name: nccl
License: BSD-3-Clause


 Copyright (c) 2015-2020, NVIDIA CORPORATION. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  * Neither the name of NVIDIA CORPORATION, Lawrence Berkeley National
    Laboratory, the U.S. Department of Energy, nor the names of their
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 The U.S. Department of Energy funded the development of this software
 under subcontract 7078610 with Lawrence Berkeley National Laboratory.


This code also includes files from the NVIDIA Tools Extension SDK project.

See:

   https://github.com/NVIDIA/NVTX

for more information and license details.

----------------------------------------------------------

Name: neon2sse
License: BSD-Source-Code

created by Victoria Zhislina, the Senior Application Engineer, Intel
 Corporation,  victoria.zhislina@intel.com

*** Copyright (C) 2012-2016 Intel Corporation.  All rights reserved.
```

```
IMPORTANT: READ BEFORE DOWNLOADING, COPYING, INSTALLING OR USING.

By downloading, copying, installing or using the software you agree to this
 license.
If you do not agree to this license, do not download, install, copy or use
 the software.

                            License Agreement
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

 * The name of the copyright holders may not be used to endorse or promote
 products
   derived from this software without specific prior written permission.

This software is provided by the copyright holders and contributors "as is"
 and
any express or implied warranties, including, but not limited to, the
 implied
warranties of merchantability and fitness for a particular purpose are
 disclaimed.
In no event shall the Intel Corporation or contributors be liable for any
 direct,
indirect, incidental, special, exemplary, or consequential damages
(including, but not limited to, procurement of substitute goods or services;
loss of use, data, or profits; or business interruption) however caused
and on any theory of liability, whether in contract, strict liability,
or tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of such damage.



Name: onnx
License: Apache-2.0

------------------------------------------------------------

Name: onnx-tensorrt
License: MIT

MIT License

Copyright (c) 2018, NVIDIA CORPORATION. All rights reserved.
Copyright (c) 2018 Open Neural Network Exchange

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

------------------------------------------------------------

Name: protobuf
License: BSD-3-Clause

Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

------------------------------------------------------------

Name: psimd
License: MIT

The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2014-2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------

Name: pthreadpool
License: BSD-2-Clause

Copyright 2019 Google LLC
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017 Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


------------------------------------------------------------

Name: pybind11
License: BSD-3-Clause

Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
```

```
3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file .github/CONTRIBUTING.md, which clarifies
 licensing of
external contributions to this project including patches, pull requests,
 etc.


------------------------------------------------------------

Name: python-peachpy
License: BSD-2-Clause

==============================
PeachPy license (2-clause BSD)
==============================

Copyright (c) 2017, Facebook Inc.
Copyright (c) 2013-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------
```

```
Name: python-six
License: MIT

Copyright (c) 2010-2017 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------------------

Name: sleef
License: BSL-1.0

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

------------------------------------------------------------

Name: swift
License: Apache-2.0
------------------------------------------------------------
```

```
Name: tb_plugin
License: BSD-3-Clause

BSD License

For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

Name: tbb
License: Apache-2.0

------------------------------------------------------------

Name: tensorpipe
License: BSD-3-Clause

BSD License

For TensorPipe software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Meta nor the names of its contributors may be used to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------------------------------------------------------------

Name: zstd
License: BSD-3-Clause

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
```

```
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


====================================================================
numpy
====================================================================
numpy

BSD 3 clause
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------

Numpy bundeled dependencies licenses

This binary distribution of NumPy also bundles the following software:
Name: OpenBLAS
Files: .libs/libopenb*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
```

```
  All rights reserved.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.
  $COPYRIGHT$
  Additional copyrights may follow
  $HEADER$
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.
  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- Bundled licenses in numpy (BSD 3-Clause "New" or "Revised"
 License) [https://github.com/numpy/numpy] -----------
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------------------------------------------------------------------------

Name: lapack-lite
License: BSD-3-Clause

Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.
```

```
- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: tempita
License: MIT

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------
Name: dragon4
License: MIT

Copyright (c) 2014 Ryan Juckett

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
```

```
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: libdivide
License: Zlib

zlib License
------------

Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
    claim that you wrote the original software. If you use this software
    in a product, an acknowledgment in the product documentation would be
    appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
    misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.


-------------------------------------------------------------
-----------------------------------------------------------------------------------------
LICENSES_bundled in different directories:
-----------------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
```

```
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------


Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

-------------------------------------------------------------------

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

------------------------------------------------------------------------
Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
---------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

-----------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
```

```
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

--------------------------------------------------------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
```

```
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------------------------------------------
```

Provider: The JRuby Project / Component(s): JCodings 1.0.45

```
/*
 * Permission is hereby granted, free of charge, to any person obtaining a
 copy of
 * this software and associated documentation files (the "Software"), to
 deal in
 * the Software without restriction, including without limitation the rights
 to
 * use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
 * of the Software, and to permit persons to whom the Software is furnished
 to do
 * so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in all
 * copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
 * SOFTWARE.
 */
```

Provider: The JRuby Project / Component(s): JCodings 1.0.55

```
/*
 * Permission is hereby granted, free of charge, to any person obtaining a
 copy of
 * this software and associated documentation files (the "Software"), to
 deal in
 * the Software without restriction, including without limitation the rights
 to
 * use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
 * of the Software, and to permit persons to whom the Software is furnished
 to do
 * so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in all
 * copies or substantial portions of the Software.
 *
```

```
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
 * SOFTWARE.
 */
```

Provider: The JRuby Project / Component(s): JRuby 9.2.19.0

```
JRuby is Copyright (c) 2007-2018 The JRuby project, and is released
under a tri EPL/GPL/LGPL license. You can use it, redistribute it
and/or modify it under the terms of the:

  Eclipse Public License version 2.0
    OR
  GNU General Public License version 2
    OR
  GNU Lesser General Public License version 2.1

bytelist (http://github.com/jruby/bytelist),
jnr-posix (https://github.com/jnr/jnr-posix),
jruby-openssl (https://github.com/jruby/jruby-openssl),
jruby-readline (https://github.com/jruby/jruby-readline),
psych (https://github.com/ruby/psych),
yydebug (https://github.com/jruby/jay-yydebug/)
are released under the same copyright/license.

Some additional libraries distributed with JRuby are not covered by
JRuby's licence. Most of these libraries and their licenses are listed
below. Also see LICENSE.RUBY for most files found in lib/ruby/stdlib.

 asm (http://asm.objectweb.org) is distributed under the BSD license and is

   Copyright (c) 2000-2011 INRIA, France Telecom
   All rights reserved.

 jline2 (https://github.com/jline/jline2) is distributed under the BSD
 license:

   Copyright (c) 2002-2012, the original author or authors.
   All rights reserved.

 jzlib (http://www.jcraft.com/jzlib/) is distributed under the BSD license:

   Copyright (c) 2000-2011 ymnk, JCraft,Inc. All rights reserved.

 The "rake" library (https://github.com/ruby/rake) is distributed under
 the MIT license, and has the following copyright:

   Copyright (c) 2003, 2004 Jim Weirich

 jcodings (http://github.com/jruby/jcodings) and
 joni (http://github.com/jruby/joni) are distributed
 under the MIT license without copyright.

 Bouncycastle is released under the MIT license:
```

```
    Copyright (c) 2000 - 2006 The Legion Of The Bouncy Castle.

  jnr-x86asm (https://github.com/jnr/jnr-x86asm) is distributed under the MIT
  license with the following copyright:

    Copyright (C) 2010 Wayne Meissner
    Copyright (c) 2008-2009, Petr Kobalicek <kobalicek.petr@gmail.com>

  The following libraries are redistributed under the Apache Software
  License v2.0, available below.
    invokebinder (https://github.com/headius/invokebinder)
    jffi (https://github.com/jnr/jffi)
    jitescript (https://github.com/qmx/jitescript)
    jnr-constants (http://github.com/jnr/jnr-constants)
    jnr-enxio (https://github.com/jnr/jnr-enxio)
    jnr-ffi (https://github.com/jnr/jnr-jffi)
    jnr-netdb (http://github.com/jnr/jnr-netdb)
    jnr-unixsocket (https://github.com/jnr/jnr-unixsocket)
    joda-time (http://joda-time.sourceforge.net)
    maven (http://maven.apache.org/)
    nailgun (http://martiansoftware.com/nailgun)
    options (https://github.com/headius/options)
    snakeyaml (https://github.com/asomov/snakeyaml)
    unsafe-fences (https://github.com/headius/unsafe-fences)

  racc (runtime only, https://github.com/tenderlove/racc) is
    distributed under the same license terms as the Ruby standard
    library. This includes all files under lib/ruby/stdlib/racc.
    See LICENSE.RUBY.

  json-generator and json-parser (https://github.com/flori/json) native
    extenstions under the same license terms as the Ruby standard library.
    See LICENSE.RUBY

The complete text of the Eclipse Public License is as follows:

  Eclipse Public License - v 2.0

      THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
      PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
      OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

  1. DEFINITIONS

  "Contribution" means:

    a) in the case of the initial Contributor, the initial content
       Distributed under this Agreement, and

    b) in the case of each subsequent Contributor:
       i) changes to the Program, and
       ii) additions to the Program;
    where such changes and/or additions to the Program originate from
    and are Distributed by that particular Contributor. A Contribution
    "originates" from a Contributor if it was added to the Program by
    such Contributor itself or anyone acting on such Contributor's behalf.
    Contributions do not include changes or additions to the Program that
    are not Modified Works.

  "Contributor" means any person or entity that Distributes the Program.

  "Licensed Patents" mean patent claims licensable by a Contributor which
  are necessarily infringed by the use or sale of its Contribution alone
```

```
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
  rights and licenses granted hereunder, each Recipient hereby
  assumes sole responsibility to secure any other intellectual
  property rights needed, if any. For example, if a third party
```

```
    patent license is required to allow Recipient to Distribute the
    Program, it is Recipient's responsibility to acquire that license
    before distributing the Program.

    d) Each Contributor represents that to its knowledge it has
    sufficient copyright rights in its Contribution, if any, to grant
    the copyright license set forth in this Agreement.

    e) Notwithstanding the terms of any Secondary License, no
    Contributor makes additional grants to any Recipient (other than
    those set forth in this Agreement) as a result of such Recipient's
    receipt of the Program under the terms of a Secondary License
    (if permitted under the terms of Section 3).

  3. REQUIREMENTS

  3.1 If a Contributor Distributes the Program in any form, then:

    a) the Program must also be made available as Source Code, in
    accordance with section 3.2, and the Contributor must accompany
    the Program with a statement that the Source Code for the Program
    is available under this Agreement, and informs Recipients how to
    obtain it in a reasonable manner on or through a medium customarily
    used for software exchange; and

    b) the Contributor may Distribute the Program under a license
    different than this Agreement, provided that such license:
       i) effectively disclaims on behalf of all other Contributors all
       warranties and conditions, express and implied, including
       warranties or conditions of title and non-infringement, and
       implied warranties or conditions of merchantability and fitness
       for a particular purpose;

       ii) effectively excludes on behalf of all other Contributors all
       liability for damages, including direct, indirect, special,
       incidental and consequential damages, such as lost profits;

       iii) does not attempt to limit or alter the recipients' rights
       in the Source Code under section 3.2; and

       iv) requires any subsequent distribution of the Program by any
       party to be under a license that satisfies the requirements
       of this section 3.

  3.2 When the Program is Distributed as Source Code:

    a) it must be made available under this Agreement, or if the
    Program (i) is combined with other material in a separate file or
    files made available under a Secondary License, and (ii) the initial
    Contributor attached to the Source Code the notice described in
    Exhibit A of this Agreement, then the Program may be made available
    under the terms of such Secondary Licenses, and

    b) a copy of this Agreement must be included with each copy of
    the Program.

  3.3 Contributors may not remove or alter any copyright, patent,
  trademark, attribution notices, disclaimers of warranty, or limitations
  of liability ("notices") contained within the Program from any copy of
  the Program which they Distribute, provided that Contributors may add
  their own appropriate notices.

  4. COMMERCIAL DISTRIBUTION
```

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further

```
  action by the parties hereto, such provision shall be reformed to the
  minimum extent necessary to make such provision valid and enforceable.

  If Recipient institutes patent litigation against any entity
  (including a cross-claim or counterclaim in a lawsuit) alleging that the
  Program itself (excluding combinations of the Program with other software
  or hardware) infringes such Recipient's patent(s), then such Recipient's
  rights granted under Section 2(b) shall terminate as of the date such
  litigation is filed.

  All Recipient's rights under this Agreement shall terminate if it
  fails to comply with any of the material terms or conditions of this
  Agreement and does not cure such failure in a reasonable period of
  time after becoming aware of such noncompliance. If all Recipient's
  rights under this Agreement terminate, Recipient agrees to cease use
  and distribution of the Program as soon as reasonably practicable.
  However, Recipient's obligations under this Agreement and any licenses
  granted by Recipient relating to the Program shall continue and survive.

  Everyone is permitted to copy and distribute copies of this Agreement,
  but in order to avoid inconsistency the Agreement is copyrighted and
  may only be modified in the following manner. The Agreement Steward
  reserves the right to publish new versions (including revisions) of
  this Agreement from time to time. No one other than the Agreement
  Steward has the right to modify this Agreement. The Eclipse Foundation
  is the initial Agreement Steward. The Eclipse Foundation may assign the
  responsibility to serve as the Agreement Steward to a suitable separate
  entity. Each new version of the Agreement will be given a distinguishing
  version number. The Program (including Contributions) may always be
  Distributed subject to the version of the Agreement under which it was
  received. In addition, after a new version of the Agreement is published,
  Contributor may elect to Distribute the Program (including its
  Contributions) under the new version.

  Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
  receives no rights or licenses to the intellectual property of any
  Contributor under this Agreement, whether expressly, by implication,
  estoppel or otherwise. All rights in the Program not expressly granted
  under this Agreement are reserved. Nothing in this Agreement is intended
  to be enforceable by any entity that is not a Contributor or Recipient.
  No third-party beneficiary rights are created under this Agreement.

  Exhibit A - Form of Secondary Licenses Notice

  "This Source Code may also be made available under the following
  Secondary Licenses when the conditions for such availability set forth
  in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
  version(s), and exceptions or additional permissions here}."

    Simply including a copy of this Agreement, including this Exhibit A
    is not sufficient to license the Source Code under Secondary Licenses.

    If it is not possible or desirable to put the notice in a particular
    file, then You may include the notice in a location (such as a LICENSE
    file in a relevant directory) where a recipient would be likely to
    look for such a notice.

    You may add additional accurate notices of copyright ownership.

The complete text of the GNU General Public License v2 is as follows:

          GNU GENERAL PUBLIC LICENSE
             Version 2, June 1991
```

```
  Copyright (C) 1989, 1991 Free Software Foundation, Inc.
                       59 Temple Place, Suite 330, Boston, MA  02111-1307
USA
  Everyone is permitted to copy and distribute verbatim copies
  of this license document, but changing it is not allowed.

           Preamble

   The licenses for most software are designed to take away your
 freedom to share and change it.  By contrast, the GNU General Public
 License is intended to guarantee your freedom to share and change free
 software--to make sure the software is free for all its users.  This
 General Public License applies to most of the Free Software
 Foundation's software and to any other program whose authors commit to
 using it.  (Some other Free Software Foundation software is covered by
 the GNU Library General Public License instead.)  You can apply it to
 your programs, too.

   When we speak of free software, we are referring to freedom, not
 price.  Our General Public Licenses are designed to make sure that you
 have the freedom to distribute copies of free software (and charge for
 this service if you wish), that you receive source code or can get it
 if you want it, that you can change the software or use pieces of it
 in new free programs; and that you know you can do these things.

   To protect your rights, we need to make restrictions that forbid
 anyone to deny you these rights or to ask you to surrender the rights.
 These restrictions translate to certain responsibilities for you if you
 distribute copies of the software, or if you modify it.

   For example, if you distribute copies of such a program, whether
 gratis or for a fee, you must give the recipients all the rights that
 you have.  You must make sure that they, too, receive or can get the
 source code.  And you must show them these terms so they know their
 rights.

   We protect your rights with two steps: (1) copyright the software, and
 (2) offer you this license which gives you legal permission to copy,
 distribute and/or modify the software.

   Also, for each author's protection and ours, we want to make certain
 that everyone understands that there is no warranty for this free
 software.  If the software is modified by someone else and passed on, we
 want its recipients to know that what they have is not the original, so
 that any problems introduced by others will not reflect on the original
 authors' reputations.

   Finally, any free program is threatened constantly by software
 patents.  We wish to avoid the danger that redistributors of a free
 program will individually obtain patent licenses, in effect making the
 program proprietary.  To prevent this, we have made it clear that any
 patent must be licensed for everyone's free use or not licensed at all.

   The precise terms and conditions for copying, distribution and
 modification follow.

         GNU GENERAL PUBLIC LICENSE
    TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

   0. This License applies to any program or other work which contains
 a notice placed by the copyright holder saying it may be distributed
 under the terms of this General Public License.  The "Program", below,
 refers to any such program or work, and a "work based on the Program"
 means either the Program or any derivative work under copyright law:
```

```
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
```

```
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange;
or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
```

```
  You are not responsible for enforcing compliance by third parties to
  this License.

    7. If, as a consequence of a court judgment or allegation of patent
  infringement or for any other reason (not limited to patent issues),
  conditions are imposed on you (whether by court order, agreement or
  otherwise) that contradict the conditions of this License, they do not
  excuse you from the conditions of this License.  If you cannot
  distribute so as to satisfy simultaneously your obligations under this
  License and any other pertinent obligations, then as a consequence you
  may not distribute the Program at all.  For example, if a patent
  license would not permit royalty-free redistribution of the Program by
  all those who receive copies directly or indirectly through you, then
  the only way you could satisfy both it and this License would be to
  refrain entirely from distribution of the Program.

  If any portion of this section is held invalid or unenforceable under
  any particular circumstance, the balance of the section is intended to
  apply and the section as a whole is intended to apply in other
  circumstances.

  It is not the purpose of this section to induce you to infringe any
  patents or other property right claims or to contest validity of any
  such claims; this section has the sole purpose of protecting the
  integrity of the free software distribution system, which is
  implemented by public license practices.  Many people have made
  generous contributions to the wide range of software distributed
  through that system in reliance on consistent application of that
  system; it is up to the author/donor to decide if he or she is willing
  to distribute software through any other system and a licensee cannot
  impose that choice.

  This section is intended to make thoroughly clear what is believed to
  be a consequence of the rest of this License.

    8. If the distribution and/or use of the Program is restricted in
  certain countries either by patents or by copyrighted interfaces, the
  original copyright holder who places the Program under this License
  may add an explicit geographical distribution limitation excluding
  those countries, so that distribution is permitted only in or among
  countries not thus excluded.  In such case, this License incorporates
  the limitation as if written in the body of this License.

    9. The Free Software Foundation may publish revised and/or new versions
  of the General Public License from time to time.  Such new versions will
  be similar in spirit to the present version, but may differ in detail to
  address new problems or concerns.

  Each version is given a distinguishing version number.  If the Program
  specifies a version number of this License which applies to it and "any
  later version", you have the option of following the terms and conditions
  either of that version or of any later version published by the Free
  Software Foundation.  If the Program does not specify a version number of
  this License, you may choose any version ever published by the Free
Software
  Foundation.

    10. If you wish to incorporate parts of the Program into other free
  programs whose distribution conditions are different, write to the author
  to ask for permission.  For software which is copyrighted by the Free
  Software Foundation, write to the Free Software Foundation; we sometimes
  make exceptions for this.  Our decision will be guided by the two goals
  of preserving the free status of all derivatives of our free software and
  of promoting the sharing and reuse of software generally.
```

```
            NO WARRANTY

    11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
  FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
  OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
  PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
  OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
  TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
  PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
  REPAIR OR CORRECTION.

    12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
 WRITING
  WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
  REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
  INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES
 ARISING
  OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
  TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
  YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
  PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
  POSSIBILITY OF SUCH DAMAGES.

          END OF TERMS AND CONDITIONS

The complete text of the GNU Lesser General Public License 2.1 is as
 follows:

        GNU LESSER GENERAL PUBLIC LICENSE
             Version 2.1, February 1999

   Copyright (C) 1991, 1999 Free Software Foundation, Inc.
       59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
   Everyone is permitted to copy and distribute verbatim copies
   of this license document, but changing it is not allowed.

  [This is the first released version of the Lesser GPL.  It also counts
   as the successor of the GNU Library Public License, version 2, hence
   the version number 2.1.]

            Preamble

    The licenses for most software are designed to take away your
  freedom to share and change it.  By contrast, the GNU General Public
  Licenses are intended to guarantee your freedom to share and change
  free software--to make sure the software is free for all its users.

    This license, the Lesser General Public License, applies to some
  specially designated software packages--typically libraries--of the
  Free Software Foundation and other authors who decide to use it.  You
  can use it too, but we suggest you first think carefully about whether
  this license or the ordinary General Public License is the better
  strategy to use in any particular case, based on the explanations below.

    When we speak of free software, we are referring to freedom of use,
  not price.  Our General Public Licenses are designed to make sure that
  you have the freedom to distribute copies of free software (and charge
  for this service if you wish); that you receive source code or can get
  it if you want it; that you can change the software and use pieces of
  it in new free programs; and that you are informed that you can do
  these things.
```

```
  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
```

```
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

      GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
```

```
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
```

```
  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
```

```
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
```

terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

```
 Each version is given a distinguishing version number.  If the Library
 specifies a version number of this License which applies to it and
 "any later version", you have the option of following the terms and
 conditions either of that version or of any later version published by
 the Free Software Foundation.  If the Library does not specify a
 license version number, you may choose any version ever published by
 the Free Software Foundation.

   14. If you wish to incorporate parts of the Library into other free
 programs whose distribution conditions are incompatible with these,
 write to the author to ask for permission.  For software which is
 copyrighted by the Free Software Foundation, write to the Free
 Software Foundation; we sometimes make exceptions for this.  Our
 decision will be guided by the two goals of preserving the free status
 of all derivatives of our free software and of promoting the sharing
 and reuse of software generally.

           NO WARRANTY

   15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
 WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
 EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
 OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
 KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
 LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
 THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

   16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
 WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
 AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
 FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
 CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
 LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
 RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
 FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
 SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGES.

          END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Libraries

   If you develop a new library, and you want it to be of the greatest
 possible use to the public, we recommend making it free software that
 everyone can redistribute and change.  You can do so by permitting
 redistribution under these terms (or, alternatively, under the terms of
the
 ordinary General Public License).

   To apply these terms, attach the following notices to the library.  It
is
 safest to attach them to the start of each source file to most effectively
 convey the exclusion of warranty; and each file should have at least the
 "copyright" line and a pointer to where the full notice is found.

     <one line to give the library's name and a brief idea of what it
does.>
     Copyright (C) <year>  <name of author>

     This library is free software; you can redistribute it and/or
     modify it under the terms of the GNU Lesser General Public
```

```
      License as published by the Free Software Foundation; either
      version 2.1 of the License, or (at your option) any later version.

      This library is distributed in the hope that it will be useful,
      but WITHOUT ANY WARRANTY; without even the implied warranty of
      MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
      Lesser General Public License for more details.

      You should have received a copy of the GNU Lesser General Public
      License along with this library; if not, write to the Free Software
      Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
 USA

  Also add information on how to contact you by electronic and paper mail.

  You should also get your employer (if you work as a programmer) or your
  school, if any, to sign a "copyright disclaimer" for the library, if
  necessary.  Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

    <signature of Ty Coon>, 1 April 1990
    Ty Coon, President of Vice

  That's all there is to it!

The following licenses cover code other than JRuby which is included with
 JRuby.

Licenses listed below include:

* GNU General Public License version 3
* Apache 2.0 License
* BSD License
* MIT License

The complete text of the GNU General Public License version 3 is as follows:

          GNU GENERAL PUBLIC LICENSE
             Version 3, 29 June 2007

   Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
   Everyone is permitted to copy and distribute verbatim copies
   of this license document, but changing it is not allowed.

            Preamble

    The GNU General Public License is a free, copyleft license for
  software and other kinds of works.

    The licenses for most software and other practical works are designed
  to take away your freedom to share and change the works.  By contrast,
  the GNU General Public License is intended to guarantee your freedom to
  share and change all versions of a program--to make sure it remains free
  software for all its users.  We, the Free Software Foundation, use the
  GNU General Public License for most of our software; it applies also to
  any other work released this way by its authors.  You can apply it to
  your programs, too.

    When we speak of free software, we are referring to freedom, not
  price.  Our General Public Licenses are designed to make sure that you
  have the freedom to distribute copies of free software (and charge for
```

```
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

           TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.
```

```
  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.
```

```
  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.
```

```
    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
```

```
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.
```

```
  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.
```

```
  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.
```

```
  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
```

```
 any implied license or other defenses to infringement that may
 otherwise be available to you under applicable patent law.

   12. No Surrender of Others' Freedom.

   If conditions are imposed on you (whether by court order, agreement or
 otherwise) that contradict the conditions of this License, they do not
 excuse you from the conditions of this License.  If you cannot convey a
 covered work so as to satisfy simultaneously your obligations under this
 License and any other pertinent obligations, then as a consequence you may
 not convey it at all.  For example, if you agree to terms that obligate
you
 to collect a royalty for further conveying from those to whom you convey
 the Program, the only way you could satisfy both those terms and this
 License would be to refrain entirely from conveying the Program.

   13. Use with the GNU Affero General Public License.

   Notwithstanding any other provision of this License, you have
 permission to link or combine any covered work with a work licensed
 under version 3 of the GNU Affero General Public License into a single
 combined work, and to convey the resulting work.  The terms of this
 License will continue to apply to the part which is the covered work,
 but the special requirements of the GNU Affero General Public License,
 section 13, concerning interaction through a network will apply to the
 combination as such.

   14. Revised Versions of this License.

   The Free Software Foundation may publish revised and/or new versions of
 the GNU General Public License from time to time.  Such new versions will
 be similar in spirit to the present version, but may differ in detail to
 address new problems or concerns.

   Each version is given a distinguishing version number.  If the
 Program specifies that a certain numbered version of the GNU General
 Public License "or any later version" applies to it, you have the
 option of following the terms and conditions either of that numbered
 version or of any later version published by the Free Software
 Foundation.  If the Program does not specify a version number of the
 GNU General Public License, you may choose any version ever published
 by the Free Software Foundation.

   If the Program specifies that a proxy can decide which future
 versions of the GNU General Public License can be used, that proxy's
 public statement of acceptance of a version permanently authorizes you
 to choose that version for the Program.

   Later license versions may give you additional or different
 permissions.  However, no additional obligations are imposed on any
 author or copyright holder as a result of your choosing to follow a
 later version.

   15. Disclaimer of Warranty.

   THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
 APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
 HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
 OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
 THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
 IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
 ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
```

```
   16. Limitation of Liability.

   IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
 THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING
ANY
 GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
 USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
 DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
 PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
 EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
 SUCH DAMAGES.

   17. Interpretation of Sections 15 and 16.

   If the disclaimer of warranty and limitation of liability provided
 above cannot be given local legal effect according to their terms,
 reviewing courts shall apply local law that most closely approximates
 an absolute waiver of all civil liability in connection with the
 Program, unless a warranty or assumption of liability accompanies a
 copy of the Program in return for a fee.

          END OF TERMS AND CONDITIONS

       How to Apply These Terms to Your New Programs

   If you develop a new program, and you want it to be of the greatest
 possible use to the public, the best way to achieve this is to make it
 free software which everyone can redistribute and change under these
terms.

   To do so, attach the following notices to the program.  It is safest
 to attach them to the start of each source file to most effectively
 state the exclusion of warranty; and each file should have at least
 the "copyright" line and a pointer to where the full notice is found.

     <one line to give the program's name and a brief idea of what it
does.>
     Copyright (C) <year>  <name of author>

     This program is free software: you can redistribute it and/or modify
     it under the terms of the GNU General Public License as published by
     the Free Software Foundation, either version 3 of the License, or
     (at your option) any later version.

     This program is distributed in the hope that it will be useful,
     but WITHOUT ANY WARRANTY; without even the implied warranty of
     MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
     GNU General Public License for more details.

     You should have received a copy of the GNU General Public License
     along with this program.  If not, see <http://www.gnu.org/licenses/>.

 Also add information on how to contact you by electronic and paper mail.

   If the program does terminal interaction, make it output a short
 notice like this when it starts in an interactive mode:

     <program>  Copyright (C) <year>  <name of author>
     This program comes with ABSOLUTELY NO WARRANTY; for details type `show
w'.
     This is free software, and you are welcome to redistribute it
     under certain conditions; type `show c' for details.
```

```
  The hypothetical commands `show w' and `show c' should show the
 appropriate
  parts of the General Public License.  Of course, your program's commands
  might be different; for a GUI interface, you would use an "about box".

    You should also get your employer (if you work as a programmer) or
 school,
  if any, to sign a "copyright disclaimer" for the program, if necessary.
  For more information on this, and how to apply and follow the GNU GPL, see
  <http://www.gnu.org/licenses/>.

    The GNU General Public License does not permit incorporating your
 program
  into proprietary programs.  If your program is a subroutine library, you
  may consider it more useful to permit linking proprietary applications
 with
  the library.  If this is what you want to do, use the GNU Lesser General
  Public License instead of this License.  But first, please read
  <http://www.gnu.org/philosophy/why-not-lgpl.html>.

The complete text of the Apache 2.0 License is as follows:

                                Apache License
                           Version 2.0, January 2004
                       http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
```

```
      represent, as a whole, an original work of authorship. For the purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

  5. Submission of Contributions. Unless You explicitly state otherwise,
     any Contribution intentionally submitted for inclusion in the Work
     by You to the Licensor shall be under the terms and conditions of
     this License, without any additional terms or conditions.
     Notwithstanding the above, nothing herein shall supersede or modify
     the terms of any separate license agreement you may have executed
     with Licensor regarding such Contributions.

  6. Trademarks. This License does not grant permission to use the trade
     names, trademarks, service marks, or product names of the Licensor,
     except as required for reasonable and customary use in describing the
     origin of the Work and reproducing the content of the NOTICE file.

  7. Disclaimer of Warranty. Unless required by applicable law or
     agreed to in writing, Licensor provides the Work (and each
     Contributor provides its Contributions) on an "AS IS" BASIS,
     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
     implied, including, without limitation, any warranties or conditions
     of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
     PARTICULAR PURPOSE. You are solely responsible for determining the
     appropriateness of using or redistributing the Work and assume any
     risks associated with Your exercise of permissions under this License.

  8. Limitation of Liability. In no event and under no legal theory,
     whether in tort (including negligence), contract, or otherwise,
     unless required by applicable law (such as deliberate and grossly
     negligent acts) or agreed to in writing, shall any Contributor be
     liable to You for damages, including any direct, indirect, special,
     incidental, or consequential damages of any character arising as a
     result of this License or out of the use or inability to use the
     Work (including but not limited to damages for loss of goodwill,
     work stoppage, computer failure or malfunction, or any and all
     other commercial damages or losses), even if such Contributor
     has been advised of the possibility of such damages.

  9. Accepting Warranty or Additional Liability. While redistributing
     the Work or Derivative Works thereof, You may choose to offer,
     and charge a fee for, acceptance of support, warranty, indemnity,
     or other liability obligations and/or rights consistent with this
     License. However, in accepting such obligations, You may act only
     on Your own behalf and on Your sole responsibility, not on behalf
```

```
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

  END OF TERMS AND CONDITIONS

  APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

  Copyright [yyyy] [name of copyright owner]

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

The complete text of the BSD license can be is as follows:

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions
  are met:
  1. Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  3. Neither the name of the University nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
  THE POSSIBILITY OF SUCH DAMAGE.

The complete text of the MIT license is as follows:

  Permission is hereby granted, free of charge, to any person
  obtaining a copy of this software and associated documentation
  files (the “Software”), to deal in the Software without
```

```
  restriction, including without limitation the rights to use,
  copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the
  Software is furnished to do so, subject to the following
  conditions:

  The above copyright notice and this permission notice shall be
  included in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND,
  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
  OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
  HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
  WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
  OTHER DEALINGS IN THE SOFTWARE.

The complete text of the GPL v2, and classpath exception:

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
 share
and change it.  By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users.  This General Public License applies to
most of the Free Software Foundation's software and to any other program
 whose
authors commit to using it.  (Some other Free Software Foundation software
 is
covered by the GNU Library General Public License instead.) You can apply it
 to
your programs, too.

When we speak of free software, we are referring to freedom, not price.  Our
General Public Licenses are designed to make sure that you have the freedom
 to
distribute copies of free software (and charge for this service if you
 wish),
that you receive source code or can get it if you want it, that you can
 change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to
 deny
you these rights or to ask you to surrender the rights.  These restrictions
translate to certain responsibilities for you if you distribute copies of
 the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or
 for
```

```
a fee, you must give the recipients all the rights that you have.  You must
make sure that they, too, receive or can get the source code.  And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also, for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software.  If
 the
software is modified by someone else and passed on, we want its recipients
 to
know that what they have is not the original, so that any problems
 introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents.  We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
 proprietary.
To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
placed by the copyright holder saying it may be distributed under the terms
 of
this General Public License.  The "Program", below, refers to any such
 program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
Program or a portion of it, either verbatim or with modifications and/or
translated into another language.  (Hereinafter, translation is included
without limitation in the term "modification".) Each licensee is addressed
 as
"you".

Activities other than copying, distribution and modification are not covered
 by
this License; they are outside its scope.  The act of running the Program is
not restricted, and the output from the Program is covered only if its
 contents
constitute a work based on the Program (independent of having been made by
running the Program).  Whether that is true depends on what the Program
 does.

1. You may copy and distribute verbatim copies of the Program's source code
 as
you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
 License
and to the absence of any warranty; and give any other recipients of the
Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you
 may
at your option offer warranty protection in exchange for a fee.
```

```
2. You may modify your copy or copies of the Program or any portion of it,
 thus
forming a work based on the Program, and copy and distribute such
 modifications
or work under the terms of Section 1 above, provided that you also meet all
 of
these conditions:

    a) You must cause the modified files to carry prominent notices stating
    that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole
 or
    in part contains or is derived from the Program or any part thereof, to
 be
    licensed as a whole at no charge to all third parties under the terms of
    this License.

    c) If the modified program normally reads commands interactively when
 run,
    you must cause it, when started running for such interactive use in the
    most ordinary way, to print or display an announcement including an
    appropriate copyright notice and a notice that there is no warranty (or
    else, saying that you provide a warranty) and that users may
 redistribute
    the program under these conditions, and telling the user how to view a
 copy
    of this License.  (Exception: if the Program itself is interactive but
 does
    not normally print such an announcement, your work based on the Program
 is
    not required to print an announcement.)

These requirements apply to the modified work as a whole.  If identifiable
sections of that work are not derived from the Program, and can be
 reasonably
considered independent and separate works in themselves, then this License,
 and
its terms, do not apply to those sections when you distribute them as
 separate
works.  But when you distribute the same sections as part of a whole which
 is a
work based on the Program, the distribution of the whole must be on the
 terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise
 the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with
 the
Program (or with a work based on the Program) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of Sections 1
 and
2 above provided that you also do one of the following:
```

```
    a) Accompany it with the complete corresponding machine-readable source
    code, which must be distributed under the terms of Sections 1 and 2
 above
    on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three years, to
    give any third party, for a charge no more than your cost of physically
    performing source distribution, a complete machine-readable copy of the
    corresponding source code, to be distributed under the terms of Sections
 1
    and 2 above on a medium customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code.  (This alternative is allowed only
    for noncommercial distribution and only if you received the program in
    object code or executable form with such an offer, in accord with
    Subsection b above.)

The source code for a work means the preferred form of the work for making
modifications to it.  For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and
 installation
of the executable.  However, as a special exception, the source code
distributed need not include anything that is normally distributed (in
 either
source or binary form) with the major components (compiler, kernel, and so
 on)
of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to
 copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even
 though
third parties are not compelled to copy the source along with the object
 code.

4. You may not copy, modify, sublicense, or distribute the Program except as
expressly provided under this License.  Any attempt otherwise to copy,
 modify,
sublicense or distribute the Program is void, and will automatically
 terminate
your rights under this License.  However, parties who have received copies,
 or
rights, from you under this License will not have their licenses terminated
 so
long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed
 it.
However, nothing else grants you permission to modify or distribute the
 Program
or its derivative works.  These actions are prohibited by law if you do not
accept this License.  Therefore, by modifying or distributing the Program
 (or
any work based on the Program), you indicate your acceptance of this License
 to
do so, and all its terms and conditions for copying, distributing or
 modifying
the Program or works based on it.
```

```
6. Each time you redistribute the Program (or any work based on the
 Program),
the recipient automatically receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and
 conditions.
You may not impose any further restrictions on the recipients' exercise of
 the
rights granted herein.  You are not responsible for enforcing compliance by
third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
 conditions
are imposed on you (whether by court order, agreement or otherwise) that
contradict the conditions of this License, they do not excuse you from the
conditions of this License.  If you cannot distribute so as to satisfy
simultaneously your obligations under this License and any other pertinent
obligations, then as a consequence you may not distribute the Program at
 all.
For example, if a patent license would not permit royalty-free
 redistribution
of the Program by all those who receive copies directly or indirectly
 through
you, then the only way you could satisfy both it and this License would be
 to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply and
the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or
other property right claims or to contest validity of any such claims; this
section has the sole purpose of protecting the integrity of the free
 software
distribution system, which is implemented by public license practices.  Many
people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of
 that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose
 that
choice.

This section is intended to make thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Program under this License may add an
 explicit
geographical distribution limitation excluding those countries, so that
distribution is permitted only in or among countries not thus excluded.  In
such case, this License incorporates the limitation as if written in the
 body
of this License.

9. The Free Software Foundation may publish revised and/or new versions of
 the
General Public License from time to time.  Such new versions will be similar
 in
spirit to the present version, but may differ in detail to address new
 problems
```

```
or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
 later
version", you have the option of following the terms and conditions either
 of
that version or of any later version published by the Free Software
 Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission.  For software which is copyrighted by the Free Software
 Foundation,
write to the Free Software Foundation; we sometimes make exceptions for
 this.
Our decision will be guided by the two goals of preserving the free status
 of
all derivatives of our free software and of promoting the sharing and reuse
 of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
 OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
 THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE
 OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR
 DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH
 HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program.  It is safest to
 attach
them to the start of each source file to most effectively convey the
 exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.
```

```
    One line to give the program's name and a brief idea of what it does.

    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify it
    under the terms of the GNU General Public License as published by the
 Free
    Software Foundation; either version 2 of the License, or (at your
 option)
    any later version.

    This program is distributed in the hope that it will be useful, but
 WITHOUT
    ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
    FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 for
    more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
 59
    Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when
 it
starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author Gnomovision
 comes
    with ABSOLUTELY NO WARRANTY; for details type 'show w'.  This is free
    software, and you are welcome to redistribute it under certain
 conditions;
    type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may be
called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
 school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
 Here
is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    'Gnomovision' (which makes passes at compilers) written by James Hacker.

    signature of Ty Coon, 1 April 1989

    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General Public
License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
```

```
subject to the following clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's
 header
the words "Oracle designates this particular file as subject to the
 "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this
 code."

    Linking this library statically or dynamically with other modules is
 making
    a combined work based on this library.  Thus, the terms and conditions
 of
    the GNU General Public License cover the whole combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
 modules,
    and to copy and distribute the resulting executable under terms of your
    choice, provided that you also meet, for each linked independent module,
    the terms and conditions of the license of that module.  An independent
    module is a module which is not derived from or based on this library.
 If
    you modify this library, you may extend this exception to your version
 of
    the library, but you are not obligated to do so.  If you do not wish to
 do
    so, delete this exception statement from your version.

The full text of the zlib licence:

Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

========= LICENSE.RUBY file =====================
JRuby distributes some ruby modules which are distributed under Ruby
license:

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>.
You can redistribute it and/or modify it under either the terms of the
2-clause BSDL (see the file BSDL), or the conditions below:

  1. You may make and give away verbatim copies of the source form of the
     software without restriction, provided that you duplicate all of the
     original copyright notices and associated disclaimers.
```

```
  2. You may modify your copy of the software in any way, provided that
     you do at least ONE of the following:

       a) place your modifications in the Public Domain or otherwise
          make them Freely Available, such as by posting said
   modifications to Usenet or an equivalent medium, or by allowing
   the author to include your modifications in the software.

       b) use the modified software only within your corporation or
          organization.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.

  3. You may distribute the software in object code or binary form,
     provided that you do at least ONE of the following:

       a) distribute the binaries and library files of the software,
   together with instructions (in the manual page or equivalent)
   on where to get the original distribution.

       b) accompany the distribution with the machine-readable source of
   the software.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.

  4. You may modify and include the part of the software into any other
     software (possibly commercial).  But some files in the distribution
     are not written by the author, so that they are not under these terms.

     For the list of those files and their copying conditions, see the
     file LEGAL.

  5. The scripts and library files supplied as input to or produced as
     output from the software do not automatically fall under the
     copyright of the software, but belong to whomever generated them,
     and may be sold commercially, and may be aggregated with this
     software.

  6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
     IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
     WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
     PURPOSE.

========== BSDL fle =====================
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

======== LEGAL file ============
In Ruby's source distribution, this would describe a number of C source
 files
that have different licenses than Ruby itself. None of those apply to JRuby,
so we have this file here as a placeholder because Ola said so.
```

Provider: The JRuby Project / Component(s): JRuby 9.2.8.0

```
JRuby is Copyright (c) 2007-2018 The JRuby project, and is released
under a tri EPL/GPL/LGPL license. You can use it, redistribute it
and/or modify it under the terms of the:

  Eclipse Public License version 2.0
    OR
  GNU General Public License version 2
    OR
  GNU Lesser General Public License version 2.1

bytelist (http://github.com/jruby/bytelist),
jnr-posix (https://github.com/jnr/jnr-posix),
jruby-openssl (https://github.com/jruby/jruby-openssl),
jruby-readline (https://github.com/jruby/jruby-readline),
psych (https://github.com/ruby/psych),
yydebug (https://github.com/jruby/jay-yydebug/)
are released under the same copyright/license.

Some additional libraries distributed with JRuby are not covered by
JRuby's licence. Most of these libraries and their licenses are listed
below. Also see LICENSE.RUBY for most files found in lib/ruby/stdlib.
Not all of these additional libraries are used in TruffleRuby.

 asm (http://asm.objectweb.org) is distributed under the BSD license and is

   Copyright (c) 2000-2011 INRIA, France Telecom
   All rights reserved.

 jline2 (https://github.com/jline/jline2) is distributed under the BSD
 license:

   Copyright (c) 2002-2012, the original author or authors.
   All rights reserved.

 jzlib (http://www.jcraft.com/jzlib/) is distributed under the BSD license:

   Copyright (c) 2000-2011 ymnk, JCraft,Inc. All rights reserved.

 The "rake" library (https://github.com/ruby/rake) is distributed under
 the MIT license, and has the following copyright:

   Copyright (c) 2003, 2004 Jim Weirich

 jcodings (http://github.com/jruby/jcodings) and
 joni (http://github.com/jruby/joni) are distributed
```

```
 under the MIT license without copyright.

 Bouncycastle is released under the MIT license:

   Copyright (c) 2000 - 2006 The Legion Of The Bouncy Castle.

 jnr-x86asm (https://github.com/jnr/jnr-x86asm) is distributed under the MIT
 license with the following copyright:

   Copyright (C) 2010 Wayne Meissner
   Copyright (c) 2008-2009, Petr Kobalicek <kobalicek.petr@gmail.com>

 The following libraries are redistributed under the Apache Software
 License v2.0, available below.
   invokebinder (https://github.com/headius/invokebinder)
   jffi (https://github.com/jnr/jffi)
   jitescript (https://github.com/qmx/jitescript)
   jnr-constants (http://github.com/jnr/jnr-constants)
   jnr-enxio (https://github.com/jnr/jnr-enxio)
   jnr-ffi (https://github.com/jnr/jnr-jffi)
   jnr-netdb (http://github.com/jnr/jnr-netdb)
   jnr-unixsocket (https://github.com/jnr/jnr-unixsocket)
   joda-time (http://joda-time.sourceforge.net)
   maven (http://maven.apache.org/)
   nailgun (http://martiansoftware.com/nailgun)
   options (https://github.com/headius/options)
   snakeyaml (https://github.com/asomov/snakeyaml)
   unsafe-fences (https://github.com/headius/unsafe-fences)

 racc (runtime only, https://github.com/tenderlove/racc) is
   distributed under the same license terms as the Ruby standard
   library. This includes all files under lib/ruby/stdlib/racc.
   See LICENSE.RUBY.

 json-generator and json-parser (https://github.com/flori/json) native
   extenstions under the same license terms as the Ruby standard library.
   See LICENSE.RUBY

The complete text of the Eclipse Public License is as follows:

  Eclipse Public License - v 2.0

      THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
      PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
      OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

  1. DEFINITIONS

  "Contribution" means:

    a) in the case of the initial Contributor, the initial content
       Distributed under this Agreement, and

    b) in the case of each subsequent Contributor:
       i) changes to the Program, and
       ii) additions to the Program;
    where such changes and/or additions to the Program originate from
    and are Distributed by that particular Contributor. A Contribution
    "originates" from a Contributor if it was added to the Program by
    such Contributor itself or anyone acting on such Contributor's behalf.
    Contributions do not include changes or additions to the Program that
    are not Modified Works.

  "Contributor" means any person or entity that Distributes the Program.
```

```
"Licensed Patents" mean patent claims licensable by a Contributor which
are necessarily infringed by the use or sale of its Contribution alone
or when combined with the Program.

"Program" means the Contributions Distributed in accordance with this
Agreement.

"Recipient" means anyone who receives the Program under this Agreement
or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other
form, that is based on (or derived from) the Program and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

  a) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free copyright
  license to reproduce, prepare Derivative Works of, publicly display,
  publicly perform, Distribute and sublicense the Contribution of such
  Contributor, if any, and such Derivative Works.

  b) Subject to the terms of this Agreement, each Contributor hereby
  grants Recipient a non-exclusive, worldwide, royalty-free patent
  license under Licensed Patents to make, use, sell, offer to sell,
  import and otherwise transfer the Contribution of such Contributor,
  if any, in Source Code or other form. This patent license shall
  apply to the combination of the Contribution and the Program if, at
  the time the Contribution is added by the Contributor, such addition
  of the Contribution causes such combination to be covered by the
  Licensed Patents. The patent license shall not apply to any other
  combinations which include the Contribution. No hardware per se is
  licensed hereunder.

  c) Recipient understands that although each Contributor grants the
  licenses to its Contributions set forth herein, no assurances are
  provided by any Contributor that the Program does not infringe the
  patent or other intellectual property rights of any other entity.
  Each Contributor disclaims any liability to Recipient for claims
  brought by any other entity based on infringement of intellectual
  property rights or otherwise. As a condition to exercising the
```

```
    rights and licenses granted hereunder, each Recipient hereby
    assumes sole responsibility to secure any other intellectual
    property rights needed, if any. For example, if a third party
    patent license is required to allow Recipient to Distribute the
    Program, it is Recipient's responsibility to acquire that license
    before distributing the Program.

    d) Each Contributor represents that to its knowledge it has
    sufficient copyright rights in its Contribution, if any, to grant
    the copyright license set forth in this Agreement.

    e) Notwithstanding the terms of any Secondary License, no
    Contributor makes additional grants to any Recipient (other than
    those set forth in this Agreement) as a result of such Recipient's
    receipt of the Program under the terms of a Secondary License
    (if permitted under the terms of Section 3).

  3. REQUIREMENTS

  3.1 If a Contributor Distributes the Program in any form, then:

    a) the Program must also be made available as Source Code, in
    accordance with section 3.2, and the Contributor must accompany
    the Program with a statement that the Source Code for the Program
    is available under this Agreement, and informs Recipients how to
    obtain it in a reasonable manner on or through a medium customarily
    used for software exchange; and

    b) the Contributor may Distribute the Program under a license
    different than this Agreement, provided that such license:
       i) effectively disclaims on behalf of all other Contributors all
       warranties and conditions, express and implied, including
       warranties or conditions of title and non-infringement, and
       implied warranties or conditions of merchantability and fitness
       for a particular purpose;

       ii) effectively excludes on behalf of all other Contributors all
       liability for damages, including direct, indirect, special,
       incidental and consequential damages, such as lost profits;

       iii) does not attempt to limit or alter the recipients' rights
       in the Source Code under section 3.2; and

       iv) requires any subsequent distribution of the Program by any
       party to be under a license that satisfies the requirements
       of this section 3.

  3.2 When the Program is Distributed as Source Code:

    a) it must be made available under this Agreement, or if the
    Program (i) is combined with other material in a separate file or
    files made available under a Secondary License, and (ii) the initial
    Contributor attached to the Source Code the notice described in
    Exhibit A of this Agreement, then the Program may be made available
    under the terms of such Secondary Licenses, and

    b) a copy of this Agreement must be included with each copy of
    the Program.

  3.3 Contributors may not remove or alter any copyright, patent,
  trademark, attribution notices, disclaimers of warranty, or limitations
  of liability ("notices") contained within the Program from any copy of
  the Program which they Distribute, provided that Contributors may add
  their own appropriate notices.
```

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

```
  If any provision of this Agreement is invalid or unenforceable under
  applicable law, it shall not affect the validity or enforceability of
  the remainder of the terms of this Agreement, and without further
  action by the parties hereto, such provision shall be reformed to the
  minimum extent necessary to make such provision valid and enforceable.

  If Recipient institutes patent litigation against any entity
  (including a cross-claim or counterclaim in a lawsuit) alleging that the
  Program itself (excluding combinations of the Program with other software
  or hardware) infringes such Recipient's patent(s), then such Recipient's
  rights granted under Section 2(b) shall terminate as of the date such
  litigation is filed.

  All Recipient's rights under this Agreement shall terminate if it
  fails to comply with any of the material terms or conditions of this
  Agreement and does not cure such failure in a reasonable period of
  time after becoming aware of such noncompliance. If all Recipient's
  rights under this Agreement terminate, Recipient agrees to cease use
  and distribution of the Program as soon as reasonably practicable.
  However, Recipient's obligations under this Agreement and any licenses
  granted by Recipient relating to the Program shall continue and survive.

  Everyone is permitted to copy and distribute copies of this Agreement,
  but in order to avoid inconsistency the Agreement is copyrighted and
  may only be modified in the following manner. The Agreement Steward
  reserves the right to publish new versions (including revisions) of
  this Agreement from time to time. No one other than the Agreement
  Steward has the right to modify this Agreement. The Eclipse Foundation
  is the initial Agreement Steward. The Eclipse Foundation may assign the
  responsibility to serve as the Agreement Steward to a suitable separate
  entity. Each new version of the Agreement will be given a distinguishing
  version number. The Program (including Contributions) may always be
  Distributed subject to the version of the Agreement under which it was
  received. In addition, after a new version of the Agreement is published,
  Contributor may elect to Distribute the Program (including its
  Contributions) under the new version.

  Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
  receives no rights or licenses to the intellectual property of any
  Contributor under this Agreement, whether expressly, by implication,
  estoppel or otherwise. All rights in the Program not expressly granted
  under this Agreement are reserved. Nothing in this Agreement is intended
  to be enforceable by any entity that is not a Contributor or Recipient.
  No third-party beneficiary rights are created under this Agreement.

  Exhibit A - Form of Secondary Licenses Notice

  "This Source Code may also be made available under the following
  Secondary Licenses when the conditions for such availability set forth
  in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
  version(s), and exceptions or additional permissions here}."

    Simply including a copy of this Agreement, including this Exhibit A
    is not sufficient to license the Source Code under Secondary Licenses.

    If it is not possible or desirable to put the notice in a particular
    file, then You may include the notice in a location (such as a LICENSE
    file in a relevant directory) where a recipient would be likely to
    look for such a notice.

    You may add additional accurate notices of copyright ownership.

The complete text of the GNU General Public License v2 is as follows:
```

```
         GNU GENERAL PUBLIC LICENSE
            Version 2, June 1991

  Copyright (C) 1989, 1991 Free Software Foundation, Inc.
                       59 Temple Place, Suite 330, Boston, MA  02111-1307
USA
  Everyone is permitted to copy and distribute verbatim copies
  of this license document, but changing it is not allowed.

           Preamble

   The licenses for most software are designed to take away your
 freedom to share and change it.  By contrast, the GNU General Public
 License is intended to guarantee your freedom to share and change free
 software--to make sure the software is free for all its users.  This
 General Public License applies to most of the Free Software
 Foundation's software and to any other program whose authors commit to
 using it.  (Some other Free Software Foundation software is covered by
 the GNU Library General Public License instead.)  You can apply it to
 your programs, too.

   When we speak of free software, we are referring to freedom, not
 price.  Our General Public Licenses are designed to make sure that you
 have the freedom to distribute copies of free software (and charge for
 this service if you wish), that you receive source code or can get it
 if you want it, that you can change the software or use pieces of it
 in new free programs; and that you know you can do these things.

   To protect your rights, we need to make restrictions that forbid
 anyone to deny you these rights or to ask you to surrender the rights.
 These restrictions translate to certain responsibilities for you if you
 distribute copies of the software, or if you modify it.

   For example, if you distribute copies of such a program, whether
 gratis or for a fee, you must give the recipients all the rights that
 you have.  You must make sure that they, too, receive or can get the
 source code.  And you must show them these terms so they know their
 rights.

   We protect your rights with two steps: (1) copyright the software, and
 (2) offer you this license which gives you legal permission to copy,
 distribute and/or modify the software.

   Also, for each author's protection and ours, we want to make certain
 that everyone understands that there is no warranty for this free
 software.  If the software is modified by someone else and passed on, we
 want its recipients to know that what they have is not the original, so
 that any problems introduced by others will not reflect on the original
 authors' reputations.

   Finally, any free program is threatened constantly by software
 patents.  We wish to avoid the danger that redistributors of a free
 program will individually obtain patent licenses, in effect making the
 program proprietary.  To prevent this, we have made it clear that any
 patent must be licensed for everyone's free use or not licensed at all.

   The precise terms and conditions for copying, distribution and
 modification follow.

         GNU GENERAL PUBLIC LICENSE
    TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

   0. This License applies to any program or other work which contains
 a notice placed by the copyright holder saying it may be distributed
```

```
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.
```

```
  In addition, mere aggregation of another work not based on the Program
  with the Program (or with a work based on the Program) on a volume of
  a storage or distribution medium does not bring the other work under
  the scope of this License.

    3. You may copy and distribute the Program (or a work based on it,
  under Section 2) in object code or executable form under the terms of
  Sections 1 and 2 above provided that you also do one of the following:

      a) Accompany it with the complete corresponding machine-readable
      source code, which must be distributed under the terms of Sections
      1 and 2 above on a medium customarily used for software interchange;
or,

      b) Accompany it with a written offer, valid for at least three
      years, to give any third party, for a charge no more than your
      cost of physically performing source distribution, a complete
      machine-readable copy of the corresponding source code, to be
      distributed under the terms of Sections 1 and 2 above on a medium
      customarily used for software interchange; or,

      c) Accompany it with the information you received as to the offer
      to distribute corresponding source code.  (This alternative is
      allowed only for noncommercial distribution and only if you
      received the program in object code or executable form with such
      an offer, in accord with Subsection b above.)

  The source code for a work means the preferred form of the work for
  making modifications to it.  For an executable work, complete source
  code means all the source code for all modules it contains, plus any
  associated interface definition files, plus the scripts used to
  control compilation and installation of the executable.  However, as a
  special exception, the source code distributed need not include
  anything that is normally distributed (in either source or binary
  form) with the major components (compiler, kernel, and so on) of the
  operating system on which the executable runs, unless that component
  itself accompanies the executable.

  If distribution of executable or object code is made by offering
  access to copy from a designated place, then offering equivalent
  access to copy the source code from the same place counts as
  distribution of the source code, even though third parties are not
  compelled to copy the source along with the object code.

    4. You may not copy, modify, sublicense, or distribute the Program
  except as expressly provided under this License.  Any attempt
  otherwise to copy, modify, sublicense or distribute the Program is
  void, and will automatically terminate your rights under this License.
  However, parties who have received copies, or rights, from you under
  this License will not have their licenses terminated so long as such
  parties remain in full compliance.

    5. You are not required to accept this License, since you have not
  signed it.  However, nothing else grants you permission to modify or
  distribute the Program or its derivative works.  These actions are
  prohibited by law if you do not accept this License.  Therefore, by
  modifying or distributing the Program (or any work based on the
  Program), you indicate your acceptance of this License to do so, and
  all its terms and conditions for copying, distributing or modifying
  the Program or works based on it.

    6. Each time you redistribute the Program (or any work based on the
  Program), the recipient automatically receives a license from the
```

```
  original licensor to copy, distribute or modify the Program subject to
  these terms and conditions.  You may not impose any further
  restrictions on the recipients' exercise of the rights granted herein.
  You are not responsible for enforcing compliance by third parties to
  this License.

    7. If, as a consequence of a court judgment or allegation of patent
  infringement or for any other reason (not limited to patent issues),
  conditions are imposed on you (whether by court order, agreement or
  otherwise) that contradict the conditions of this License, they do not
  excuse you from the conditions of this License.  If you cannot
  distribute so as to satisfy simultaneously your obligations under this
  License and any other pertinent obligations, then as a consequence you
  may not distribute the Program at all.  For example, if a patent
  license would not permit royalty-free redistribution of the Program by
  all those who receive copies directly or indirectly through you, then
  the only way you could satisfy both it and this License would be to
  refrain entirely from distribution of the Program.

  If any portion of this section is held invalid or unenforceable under
  any particular circumstance, the balance of the section is intended to
  apply and the section as a whole is intended to apply in other
  circumstances.

  It is not the purpose of this section to induce you to infringe any
  patents or other property right claims or to contest validity of any
  such claims; this section has the sole purpose of protecting the
  integrity of the free software distribution system, which is
  implemented by public license practices.  Many people have made
  generous contributions to the wide range of software distributed
  through that system in reliance on consistent application of that
  system; it is up to the author/donor to decide if he or she is willing
  to distribute software through any other system and a licensee cannot
  impose that choice.

  This section is intended to make thoroughly clear what is believed to
  be a consequence of the rest of this License.

    8. If the distribution and/or use of the Program is restricted in
  certain countries either by patents or by copyrighted interfaces, the
  original copyright holder who places the Program under this License
  may add an explicit geographical distribution limitation excluding
  those countries, so that distribution is permitted only in or among
  countries not thus excluded.  In such case, this License incorporates
  the limitation as if written in the body of this License.

    9. The Free Software Foundation may publish revised and/or new versions
  of the General Public License from time to time.  Such new versions will
  be similar in spirit to the present version, but may differ in detail to
  address new problems or concerns.

  Each version is given a distinguishing version number.  If the Program
  specifies a version number of this License which applies to it and "any
  later version", you have the option of following the terms and conditions
  either of that version or of any later version published by the Free
  Software Foundation.  If the Program does not specify a version number of
  this License, you may choose any version ever published by the Free
Software
  Foundation.

    10. If you wish to incorporate parts of the Program into other free
  programs whose distribution conditions are different, write to the author
  to ask for permission.  For software which is copyrighted by the Free
  Software Foundation, write to the Free Software Foundation; we sometimes
```

```
  make exceptions for this.  Our decision will be guided by the two goals
  of preserving the free status of all derivatives of our free software and
  of promoting the sharing and reuse of software generally.

            NO WARRANTY

    11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
  FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
  OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
  PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
  OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
  TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
  PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
  REPAIR OR CORRECTION.

    12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
 WRITING
  WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
  REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
  INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES
 ARISING
  OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
  TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
  YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
  PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
  POSSIBILITY OF SUCH DAMAGES.

          END OF TERMS AND CONDITIONS

The complete text of the GNU Lesser General Public License 2.1 is as
 follows:

        GNU LESSER GENERAL PUBLIC LICENSE
             Version 2.1, February 1999

   Copyright (C) 1991, 1999 Free Software Foundation, Inc.
       59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
   Everyone is permitted to copy and distribute verbatim copies
   of this license document, but changing it is not allowed.

  [This is the first released version of the Lesser GPL.  It also counts
   as the successor of the GNU Library Public License, version 2, hence
   the version number 2.1.]

            Preamble

    The licenses for most software are designed to take away your
  freedom to share and change it.  By contrast, the GNU General Public
  Licenses are intended to guarantee your freedom to share and change
  free software--to make sure the software is free for all its users.

    This license, the Lesser General Public License, applies to some
  specially designated software packages--typically libraries--of the
  Free Software Foundation and other authors who decide to use it.  You
  can use it too, but we suggest you first think carefully about whether
  this license or the ordinary General Public License is the better
  strategy to use in any particular case, based on the explanations below.

    When we speak of free software, we are referring to freedom of use,
  not price.  Our General Public Licenses are designed to make sure that
  you have the freedom to distribute copies of free software (and charge
  for this service if you wish); that you receive source code or can get
  it if you want it; that you can change the software and use pieces of
```

```
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.
```

```
  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

      GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
```

```
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
```

```
  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
```

```
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
```

```
  distribute the Library is void, and will automatically terminate your
  rights under this License.  However, parties who have received copies,
  or rights, from you under this License will not have their licenses
  terminated so long as such parties remain in full compliance.

    9. You are not required to accept this License, since you have not
  signed it.  However, nothing else grants you permission to modify or
  distribute the Library or its derivative works.  These actions are
  prohibited by law if you do not accept this License.  Therefore, by
  modifying or distributing the Library (or any work based on the
  Library), you indicate your acceptance of this License to do so, and
  all its terms and conditions for copying, distributing or modifying
  the Library or works based on it.

    10. Each time you redistribute the Library (or any work based on the
  Library), the recipient automatically receives a license from the
  original licensor to copy, distribute, link with or modify the Library
  subject to these terms and conditions.  You may not impose any further
  restrictions on the recipients' exercise of the rights granted herein.
  You are not responsible for enforcing compliance by third parties with
  this License.

    11. If, as a consequence of a court judgment or allegation of patent
  infringement or for any other reason (not limited to patent issues),
  conditions are imposed on you (whether by court order, agreement or
  otherwise) that contradict the conditions of this License, they do not
  excuse you from the conditions of this License.  If you cannot
  distribute so as to satisfy simultaneously your obligations under this
  License and any other pertinent obligations, then as a consequence you
  may not distribute the Library at all.  For example, if a patent
  license would not permit royalty-free redistribution of the Library by
  all those who receive copies directly or indirectly through you, then
  the only way you could satisfy both it and this License would be to
  refrain entirely from distribution of the Library.

  If any portion of this section is held invalid or unenforceable under any
  particular circumstance, the balance of the section is intended to apply,
  and the section as a whole is intended to apply in other circumstances.

  It is not the purpose of this section to induce you to infringe any
  patents or other property right claims or to contest validity of any
  such claims; this section has the sole purpose of protecting the
  integrity of the free software distribution system which is
  implemented by public license practices.  Many people have made
  generous contributions to the wide range of software distributed
  through that system in reliance on consistent application of that
  system; it is up to the author/donor to decide if he or she is willing
  to distribute software through any other system and a licensee cannot
  impose that choice.

  This section is intended to make thoroughly clear what is believed to
  be a consequence of the rest of this License.

    12. If the distribution and/or use of the Library is restricted in
  certain countries either by patents or by copyrighted interfaces, the
  original copyright holder who places the Library under this License may
add
  an explicit geographical distribution limitation excluding those
countries,
  so that distribution is permitted only in or among countries not thus
  excluded.  In such case, this License incorporates the limitation as if
  written in the body of this License.

    13. The Free Software Foundation may publish revised and/or new
```

```
 versions of the Lesser General Public License from time to time.
 Such new versions will be similar in spirit to the present version,
 but may differ in detail to address new problems or concerns.

 Each version is given a distinguishing version number.  If the Library
 specifies a version number of this License which applies to it and
 "any later version", you have the option of following the terms and
 conditions either of that version or of any later version published by
 the Free Software Foundation.  If the Library does not specify a
 license version number, you may choose any version ever published by
 the Free Software Foundation.

   14. If you wish to incorporate parts of the Library into other free
 programs whose distribution conditions are incompatible with these,
 write to the author to ask for permission.  For software which is
 copyrighted by the Free Software Foundation, write to the Free
 Software Foundation; we sometimes make exceptions for this.  Our
 decision will be guided by the two goals of preserving the free status
 of all derivatives of our free software and of promoting the sharing
 and reuse of software generally.

           NO WARRANTY

   15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
 WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
 EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
 OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
 KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
 LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
 THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

   16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
 WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
 AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
 FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
 CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
 LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
 RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
 FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
 SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGES.

          END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Libraries

   If you develop a new library, and you want it to be of the greatest
 possible use to the public, we recommend making it free software that
 everyone can redistribute and change.  You can do so by permitting
 redistribution under these terms (or, alternatively, under the terms of
the
 ordinary General Public License).

   To apply these terms, attach the following notices to the library.  It
is
 safest to attach them to the start of each source file to most effectively
 convey the exclusion of warranty; and each file should have at least the
 "copyright" line and a pointer to where the full notice is found.

     <one line to give the library's name and a brief idea of what it
does.>
     Copyright (C) <year>  <name of author>
```

```
      This library is free software; you can redistribute it and/or
      modify it under the terms of the GNU Lesser General Public
      License as published by the Free Software Foundation; either
      version 2.1 of the License, or (at your option) any later version.

      This library is distributed in the hope that it will be useful,
      but WITHOUT ANY WARRANTY; without even the implied warranty of
      MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
      Lesser General Public License for more details.

      You should have received a copy of the GNU Lesser General Public
      License along with this library; if not, write to the Free Software
      Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
 USA

  Also add information on how to contact you by electronic and paper mail.

  You should also get your employer (if you work as a programmer) or your
  school, if any, to sign a "copyright disclaimer" for the library, if
  necessary.  Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

    <signature of Ty Coon>, 1 April 1990
    Ty Coon, President of Vice

  That's all there is to it!

The following licenses cover code other than JRuby which is included with
 JRuby.

Licenses listed below include:

* GNU General Public License version 3
* Apache 2.0 License
* BSD License
* MIT License

The complete text of the GNU General Public License version 3 is as follows:

          GNU GENERAL PUBLIC LICENSE
             Version 3, 29 June 2007

   Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
   Everyone is permitted to copy and distribute verbatim copies
   of this license document, but changing it is not allowed.

            Preamble

    The GNU General Public License is a free, copyleft license for
  software and other kinds of works.

    The licenses for most software and other practical works are designed
  to take away your freedom to share and change the works.  By contrast,
  the GNU General Public License is intended to guarantee your freedom to
  share and change all versions of a program--to make sure it remains free
  software for all its users.  We, the Free Software Foundation, use the
  GNU General Public License for most of our software; it applies also to
  any other work released this way by its authors.  You can apply it to
  your programs, too.
```

```
  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

           TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
```

```
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.
```

```
  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:
```

```
    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
```

```
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.
```

```
  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.
```

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

```
  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
```

```
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate
you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
```

```
 IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
 ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

   16. Limitation of Liability.

   IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
 THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING
ANY
 GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
 USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
 DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
 PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
 EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
 SUCH DAMAGES.

   17. Interpretation of Sections 15 and 16.

   If the disclaimer of warranty and limitation of liability provided
 above cannot be given local legal effect according to their terms,
 reviewing courts shall apply local law that most closely approximates
 an absolute waiver of all civil liability in connection with the
 Program, unless a warranty or assumption of liability accompanies a
 copy of the Program in return for a fee.

          END OF TERMS AND CONDITIONS

       How to Apply These Terms to Your New Programs

   If you develop a new program, and you want it to be of the greatest
 possible use to the public, the best way to achieve this is to make it
 free software which everyone can redistribute and change under these
terms.

   To do so, attach the following notices to the program.  It is safest
 to attach them to the start of each source file to most effectively
 state the exclusion of warranty; and each file should have at least
 the "copyright" line and a pointer to where the full notice is found.

     <one line to give the program's name and a brief idea of what it
does.>
     Copyright (C) <year>  <name of author>

     This program is free software: you can redistribute it and/or modify
     it under the terms of the GNU General Public License as published by
     the Free Software Foundation, either version 3 of the License, or
     (at your option) any later version.

     This program is distributed in the hope that it will be useful,
     but WITHOUT ANY WARRANTY; without even the implied warranty of
     MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
     GNU General Public License for more details.

     You should have received a copy of the GNU General Public License
     along with this program.  If not, see <http://www.gnu.org/licenses/>.

 Also add information on how to contact you by electronic and paper mail.

   If the program does terminal interaction, make it output a short
 notice like this when it starts in an interactive mode:

     <program>  Copyright (C) <year>  <name of author>
     This program comes with ABSOLUTELY NO WARRANTY; for details type `show
w'.
```

```
      This is free software, and you are welcome to redistribute it
      under certain conditions; type `show c' for details.

  The hypothetical commands `show w' and `show c' should show the
 appropriate
  parts of the General Public License.  Of course, your program's commands
  might be different; for a GUI interface, you would use an "about box".

    You should also get your employer (if you work as a programmer) or
 school,
  if any, to sign a "copyright disclaimer" for the program, if necessary.
  For more information on this, and how to apply and follow the GNU GPL, see
  <http://www.gnu.org/licenses/>.

    The GNU General Public License does not permit incorporating your
 program
  into proprietary programs.  If your program is a subroutine library, you
  may consider it more useful to permit linking proprietary applications
 with
  the library.  If this is what you want to do, use the GNU Lesser General
  Public License instead of this License.  But first, please read
  <http://www.gnu.org/philosophy/why-not-lgpl.html>.

The complete text of the Apache 2.0 License is as follows:

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

  END OF TERMS AND CONDITIONS

  APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

  Copyright [yyyy] [name of copyright owner]

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

The complete text of the BSD license can be is as follows:

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions
  are met:
  1. Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  3. Neither the name of the University nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
  INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
  CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
  ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
  THE POSSIBILITY OF SUCH DAMAGE.

The complete text of the MIT license is as follows:
```

```
  Permission is hereby granted, free of charge, to any person
  obtaining a copy of this software and associated documentation
  files (the "Software"), to deal in the Software without
  restriction, including without limitation the rights to use,
  copy, modify, merge, publish, distribute, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the
  Software is furnished to do so, subject to the following
  conditions:

  The above copyright notice and this permission notice shall be
  included in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
  OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
  NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
  HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
  WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
  OTHER DEALINGS IN THE SOFTWARE.

The complete text of the GPL v2, and classpath exception:

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
 share
and change it.  By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users.  This General Public License applies to
most of the Free Software Foundation's software and to any other program
 whose
authors commit to using it.  (Some other Free Software Foundation software
 is
covered by the GNU Library General Public License instead.) You can apply it
 to
your programs, too.

When we speak of free software, we are referring to freedom, not price.  Our
General Public Licenses are designed to make sure that you have the freedom
 to
distribute copies of free software (and charge for this service if you
 wish),
that you receive source code or can get it if you want it, that you can
 change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to
 deny
you these rights or to ask you to surrender the rights.  These restrictions
translate to certain responsibilities for you if you distribute copies of
 the
software, or if you modify it.
```

```
For example, if you distribute copies of such a program, whether gratis or
 for
a fee, you must give the recipients all the rights that you have.  You must
make sure that they, too, receive or can get the source code.  And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also, for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software.  If
 the
software is modified by someone else and passed on, we want its recipients
 to
know that what they have is not the original, so that any problems
 introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents.  We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
 proprietary.
To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
placed by the copyright holder saying it may be distributed under the terms
 of
this General Public License.  The "Program", below, refers to any such
 program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
Program or a portion of it, either verbatim or with modifications and/or
translated into another language.  (Hereinafter, translation is included
without limitation in the term "modification".) Each licensee is addressed
 as
"you".

Activities other than copying, distribution and modification are not covered
 by
this License; they are outside its scope.  The act of running the Program is
not restricted, and the output from the Program is covered only if its
 contents
constitute a work based on the Program (independent of having been made by
running the Program).  Whether that is true depends on what the Program
 does.

1. You may copy and distribute verbatim copies of the Program's source code
 as
you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
 License
and to the absence of any warranty; and give any other recipients of the
Program a copy of this License along with the Program.
```

```
You may charge a fee for the physical act of transferring a copy, and you
 may
at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it,
 thus
forming a work based on the Program, and copy and distribute such
 modifications
or work under the terms of Section 1 above, provided that you also meet all
 of
these conditions:

    a) You must cause the modified files to carry prominent notices stating
    that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in whole
 or
    in part contains or is derived from the Program or any part thereof, to
 be
    licensed as a whole at no charge to all third parties under the terms of
    this License.

    c) If the modified program normally reads commands interactively when
 run,
    you must cause it, when started running for such interactive use in the
    most ordinary way, to print or display an announcement including an
    appropriate copyright notice and a notice that there is no warranty (or
    else, saying that you provide a warranty) and that users may
 redistribute
    the program under these conditions, and telling the user how to view a
 copy
    of this License.  (Exception: if the Program itself is interactive but
 does
    not normally print such an announcement, your work based on the Program
 is
    not required to print an announcement.)

These requirements apply to the modified work as a whole.  If identifiable
sections of that work are not derived from the Program, and can be
 reasonably
considered independent and separate works in themselves, then this License,
 and
its terms, do not apply to those sections when you distribute them as
 separate
works.  But when you distribute the same sections as part of a whole which
 is a
work based on the Program, the distribution of the whole must be on the
 terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise
 the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with
 the
Program (or with a work based on the Program) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under
```

```
Section 2) in object code or executable form under the terms of Sections 1
 and
2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable source
    code, which must be distributed under the terms of Sections 1 and 2
 above
    on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three years, to
    give any third party, for a charge no more than your cost of physically
    performing source distribution, a complete machine-readable copy of the
    corresponding source code, to be distributed under the terms of Sections
 1
    and 2 above on a medium customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer to
    distribute corresponding source code.  (This alternative is allowed only
    for noncommercial distribution and only if you received the program in
    object code or executable form with such an offer, in accord with
    Subsection b above.)

The source code for a work means the preferred form of the work for making
modifications to it.  For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and
 installation
of the executable.  However, as a special exception, the source code
distributed need not include anything that is normally distributed (in
 either
source or binary form) with the major components (compiler, kernel, and so
 on)
of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to
 copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even
 though
third parties are not compelled to copy the source along with the object
 code.

4. You may not copy, modify, sublicense, or distribute the Program except as
expressly provided under this License.  Any attempt otherwise to copy,
 modify,
sublicense or distribute the Program is void, and will automatically
 terminate
your rights under this License.  However, parties who have received copies,
 or
rights, from you under this License will not have their licenses terminated
 so
long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed
 it.
However, nothing else grants you permission to modify or distribute the
 Program
or its derivative works.  These actions are prohibited by law if you do not
accept this License.  Therefore, by modifying or distributing the Program
 (or
any work based on the Program), you indicate your acceptance of this License
 to
```

```
do so, and all its terms and conditions for copying, distributing or
 modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
 Program),
the recipient automatically receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and
 conditions.
You may not impose any further restrictions on the recipients' exercise of
 the
rights granted herein.  You are not responsible for enforcing compliance by
third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
 conditions
are imposed on you (whether by court order, agreement or otherwise) that
contradict the conditions of this License, they do not excuse you from the
conditions of this License.  If you cannot distribute so as to satisfy
simultaneously your obligations under this License and any other pertinent
obligations, then as a consequence you may not distribute the Program at
 all.
For example, if a patent license would not permit royalty-free
 redistribution
of the Program by all those who receive copies directly or indirectly
 through
you, then the only way you could satisfy both it and this License would be
 to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply and
the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
 or
other property right claims or to contest validity of any such claims; this
section has the sole purpose of protecting the integrity of the free
 software
distribution system, which is implemented by public license practices.  Many
people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of
 that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose
 that
choice.

This section is intended to make thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Program under this License may add an
 explicit
geographical distribution limitation excluding those countries, so that
distribution is permitted only in or among countries not thus excluded.  In
such case, this License incorporates the limitation as if written in the
 body
of this License.

9. The Free Software Foundation may publish revised and/or new versions of
 the
```

```
General Public License from time to time.  Such new versions will be similar
 in
spirit to the present version, but may differ in detail to address new
 problems
or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
 later
version", you have the option of following the terms and conditions either
 of
that version or of any later version published by the Free Software
 Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission.  For software which is copyrighted by the Free Software
 Foundation,
write to the Free Software Foundation; we sometimes make exceptions for
 this.
Our decision will be guided by the two goals of preserving the free status
 of
all derivatives of our free software and of promoting the sharing and reuse
 of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
 OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
 WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
 THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE
 OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR
 DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH
 HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program.  It is safest to
 attach
```

```
them to the start of each source file to most effectively convey the
 exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.

    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify it
    under the terms of the GNU General Public License as published by the
 Free
    Software Foundation; either version 2 of the License, or (at your
 option)
    any later version.

    This program is distributed in the hope that it will be useful, but
 WITHOUT
    ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
    FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 for
    more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
 59
    Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when
 it
starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author Gnomovision
 comes
    with ABSOLUTELY NO WARRANTY; for details type 'show w'.  This is free
    software, and you are welcome to redistribute it under certain
 conditions;
    type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may be
called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
 school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
 Here
is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    'Gnomovision' (which makes passes at compilers) written by James Hacker.

    signature of Ty Coon, 1 April 1989

    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General Public
License instead of this License.
```

```
"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's
 header
the words "Oracle designates this particular file as subject to the
 "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this
 code."

    Linking this library statically or dynamically with other modules is
 making
    a combined work based on this library.  Thus, the terms and conditions
 of
    the GNU General Public License cover the whole combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent
 modules,
    and to copy and distribute the resulting executable under terms of your
    choice, provided that you also meet, for each linked independent module,
    the terms and conditions of the license of that module.  An independent
    module is a module which is not derived from or based on this library.
 If
    you modify this library, you may extend this exception to your version
 of
    the library, but you are not obligated to do so.  If you do not wish to
 do
    so, delete this exception statement from your version.

The full text of the zlib licence:

Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
```

Provider: The JRuby Project / Component(s): JONI 2.1.30

```
/*
 * Permission is hereby granted, free of charge, to any person obtaining a
 copy of
```

```
 * this software and associated documentation files (the "Software"), to
 deal in
 * the Software without restriction, including without limitation the rights
 to
 * use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
 * of the Software, and to permit persons to whom the Software is furnished
 to do
 * so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in all
 * copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
 * SOFTWARE.
 */

4th party dependency, ASM

URL for license -
https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of INRIA, France Telecom
nor the names of its contributors may be used to endorse or promote products
 derived from this software without specific prior written permission.


THIS SOFTWARE IS PROVIDED “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES,
  INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
   AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
   THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
  EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
   OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
   WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
   OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
 ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Kubernetes Authors / Component(s): api kubernetes-1.11.1

```
"github.com/davecgh/go-spew/spew 782f4967f2dc4564575ca782fe2d04090b5faca8"
"github.com/ghodss/yaml 73d445a93680fa1a78ae23a5839bad48f32ba1ee"
```

```
"github.com/gogo/protobuf/proto c0656edd0d9eab7c66d1eb0c568f9039345796f7"
"github.com/gogo/protobuf/sortkeys c0656edd0d9eab7c66d1eb0c568f9039345796f7"
"github.com/golang/glog 44145f04b68cf362d9c4df2182967c2275eaefed"
"github.com/golang/protobuf/proto b4deda0973fb4c70b50d226b1af49f3da59f5265"
"github.com/google/gofuzz 44d81051d367757e1c7c6a5a86423ece9afcf63c"
"github.com/json-iterator/go f2b4162afba35581b6d4a50d3b8f34e33c144682"
"github.com/modern-go/concurrent bacd9c7ef1dd9b15be4a9909b8ac7a4e313eec94"
"github.com/modern-go/reflect2 05fbef0ca5da472bbf96c9322b84a53edc03c9fd"
"github.com/pmezard/go-difflib/difflib
 d8ed2627bdf02c080bf22230dbb337003b7aba2d"
"github.com/spf13/pflag 583c0c0531f06d5278b7d917446061adc344b5cd"
"github.com/stretchr/testify/assert
 c679ae2cc0cb27ec3293fea7e254e47386f05d69"
"github.com/stretchr/testify/require
 c679ae2cc0cb27ec3293fea7e254e47386f05d69"
"golang.org/x/net/http2 1c05540f6879653db88113bc4a2b70aec4bd491f"
"golang.org/x/net/http2/hpack 1c05540f6879653db88113bc4a2b70aec4bd491f"
"golang.org/x/net/idna 1c05540f6879653db88113bc4a2b70aec4bd491f"
"golang.org/x/net/lex/httplex 1c05540f6879653db88113bc4a2b70aec4bd491f"
"golang.org/x/text/secure/bidirule b19bf474d317b857955b12035d2c5acb57ce8b01"
"golang.org/x/text/transform b19bf474d317b857955b12035d2c5acb57ce8b01"
"golang.org/x/text/unicode/bidi b19bf474d317b857955b12035d2c5acb57ce8b01"
"golang.org/x/text/unicode/norm b19bf474d317b857955b12035d2c5acb57ce8b01"
"gopkg.in/inf.v0 3887ee99ecf07df5b447e9b00d9c0b2adaa9f3e4"
"gopkg.in/yaml.v2 670d4cfef0544295bc27a114dbac37980d83185a"
"k8s.io/apimachinery/pkg/api/equality
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/api/meta 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/api/resource
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/api/testing
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/api/testing/fuzzer
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/api/testing/roundtrip
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/apis/meta/fuzzer
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/apis/meta/v1
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/apis/meta/v1/unstructured
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/apis/meta/v1beta1
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/conversion
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/conversion/queryparams
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/fields 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/labels 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/schema
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/serializer
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/serializer/json
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/serializer/protobuf
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/serializer/recognizer
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/serializer/versioning
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/selection 241e268dc8e07223510442ab7d7902695c585d80"
```

```
"k8s.io/apimachinery/pkg/types 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/diff 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/errors
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/framer
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/intstr
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/json 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/naming
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/net 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/runtime
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/sets 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/validation
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/validation/field
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/wait 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/yaml 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/watch 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/third_party/forked/golang/reflect
 241e268dc8e07223510442ab7d7902695c585d80"


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
```

```
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
    The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell

Please consider promoting this project if you find it useful.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
```

```
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
    yamlh.go
    yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
```

```
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: The Kubernetes Authors / Component(s): api kubernetes-1.12.0

```
"github.com/davecgh/go-spew/spew 782f4967f2dc4564575ca782fe2d04090b5faca8"
"github.com/ghodss/yaml 73d445a93680fa1a78ae23a5839bad48f32ba1ee"
"github.com/gogo/protobuf/proto c0656edd0d9eab7c66d1eb0c568f9039345796f7"
"github.com/gogo/protobuf/sortkeys c0656edd0d9eab7c66d1eb0c568f9039345796f7"
"github.com/golang/glog 44145f04b68cf362d9c4df2182967c2275eaefed"
"github.com/golang/protobuf/proto b4deda0973fb4c70b50d226b1af49f3da59f5265"
"github.com/google/gofuzz 44d81051d367757e1c7c6a5a86423ece9afcf63c"
"github.com/json-iterator/go f2b4162afba35581b6d4a50d3b8f34e33c144682"
"github.com/modern-go/concurrent bacd9c7ef1dd9b15be4a9909b8ac7a4e313eec94"
"github.com/modern-go/reflect2 05fbef0ca5da472bbf96c9322b84a53edc03c9fd"
"github.com/pmezard/go-difflib/difflib
 d8ed2627bdf02c080bf22230dbb337003b7aba2d"
"github.com/spf13/pflag 583c0c0531f06d5278b7d917446061adc344b5cd"
"github.com/stretchr/testify/assert
 c679ae2cc0cb27ec3293fea7e254e47386f05d69"
"github.com/stretchr/testify/require
 c679ae2cc0cb27ec3293fea7e254e47386f05d69"
"golang.org/x/net/http2 1c05540f6879653db88113bc4a2b70aec4bd491f"
"golang.org/x/net/http2/hpack 1c05540f6879653db88113bc4a2b70aec4bd491f"
"golang.org/x/net/idna 1c05540f6879653db88113bc4a2b70aec4bd491f"
"golang.org/x/net/lex/httplex 1c05540f6879653db88113bc4a2b70aec4bd491f"
"golang.org/x/text/secure/bidirule b19bf474d317b857955b12035d2c5acb57ce8b01"
"golang.org/x/text/transform b19bf474d317b857955b12035d2c5acb57ce8b01"
"golang.org/x/text/unicode/bidi b19bf474d317b857955b12035d2c5acb57ce8b01"
"golang.org/x/text/unicode/norm b19bf474d317b857955b12035d2c5acb57ce8b01"
"gopkg.in/inf.v0 3887ee99ecf07df5b447e9b00d9c0b2adaa9f3e4"
"gopkg.in/yaml.v2 670d4cfef0544295bc27a114dbac37980d83185a"
"k8s.io/apimachinery/pkg/api/equality
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/api/meta 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/api/resource
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/api/testing
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/api/testing/fuzzer
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/api/testing/roundtrip
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/apis/meta/fuzzer
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/apis/meta/v1
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/apis/meta/v1/unstructured
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/apis/meta/v1beta1
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/conversion
 241e268dc8e07223510442ab7d7902695c585d80"
```

```
"k8s.io/apimachinery/pkg/conversion/queryparams
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/fields 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/labels 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/schema
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/serializer
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/serializer/json
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/serializer/protobuf
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/serializer/recognizer
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/runtime/serializer/versioning
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/selection 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/types 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/diff 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/errors
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/framer
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/intstr
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/json 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/naming
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/net 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/runtime
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/sets 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/validation
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/validation/field
 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/wait 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/util/yaml 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/pkg/watch 241e268dc8e07223510442ab7d7902695c585d80"
"k8s.io/apimachinery/third_party/forked/golang/reflect
 241e268dc8e07223510442ab7d7902695c585d80"


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
```

```
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
```

```
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
```

```
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
```

```
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Copyright (c) 2013, Patrick Mezard
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
    The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell

Please consider promoting this project if you find it useful.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
```

```
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
```

```
    yamlh.go
    yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: The Kubernetes Authors / Component(s): client-go 1.11.1

```
Copyright (c) 2012 Dave Grijalva

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
```

```
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
    The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.
```

```
"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
```

```
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
```

```
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.
```

```
While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
```

```
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
```

```
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
```

```
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell

Please consider promoting this project if you find it useful.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2012-2013 Rackspace, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License.  You may obtain a copy of
 the
License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.  See the License for the
specific language governing permissions and limitations under the License.


------

    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
```

```
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
```

```
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
```

```
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
```

```
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
```

```
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Copyright (c) 2013 Dario Castañé. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2009 The oauth2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
MIT License
```

```
Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2014 Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Copyright (c) 2011-2012 Peter Bourgon

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2014-2015 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format
```

```
Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright © 2012 Greg Jones (greg.jones@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the “Software”), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
      http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2015 Microsoft Corporation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. "Contributor Version"

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

     means Covered Software of a particular Contributor.

1.4. "Covered Software"

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. "Incompatible With Secondary Licenses"
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the terms
 of
        a Secondary License.

1.6. "Executable Form"

     means any form of the work other than Source Code Form.

1.7. "Larger Work"

     means a work that combines Covered Software with other material, in a
     separate file or files, that is not Covered Software.

1.8. "License"

     means this document.

1.9. "Licensable"

     means having the right to grant, to the maximum extent possible,
 whether
     at the time of the initial grant or subsequently, any and all of the
     rights conveyed by this License.
```

```
1.10. "Modifications"

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered Software;
 or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

      means any patent claim(s), including without limitation, method,
      process, and apparatus claims, in any patent Licensable by such
      Contributor that would be infringed, but for the grant of the License,
      by the making, using, selling, offering for sale, having made, import,
      or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

      means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

      means an individual or a legal entity exercising rights under this
      License. For legal entities, "You" includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, "control" means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
        as part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
        Contributions or its Contributor Version.

2.2. Effective Date
```

```
     The licenses granted in Section 2.1 with respect to any Contribution
     become effective for each Contribution on the date the Contributor
 first
     distributes such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under
     this License. No additional rights or licenses will be implied from the
     distribution or licensing of Covered Software under this License.
     Notwithstanding Section 2.1(b) above, no patent license is granted by a
     Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
        its Contributions.

     This License does not grant any rights in the trademarks, service
 marks,
     or logos of any Contributor (except as may be necessary to comply with
     the notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
     License (see Section 10.2) or under the terms of a Secondary License
 (if
     permitted under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
     Contributions are its original creation(s) or it has sufficient rights
 to
     grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
     applicable copyright doctrines of fair use, fair dealing, or other
     equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
```

```
     the terms of this License. You must inform recipients that the Source
     Code Form of the Covered Software is governed by the terms of this
     License, and how they can obtain a copy of this License. You may not
     attempt to alter or restrict the recipients' rights in the Source Code
     Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
        License, or sublicense it under different terms, provided that the
        license for the Executable Form does not attempt to limit or alter
 the
        recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
     the Covered Software. If the Larger Work is a combination of Covered
     Software with a work governed by one or more Secondary Licenses, and
 the
     Covered Software is not Incompatible With Secondary Licenses, this
     License permits You to additionally distribute such Covered Software
     under the terms of such Secondary License(s), so that the recipient of
     the Larger Work may, at their option, further distribute the Covered
     Software under the terms of either this License or such Secondary
     License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
     (including copyright notices, patent notices, disclaimers of warranty,
 or
     limitations of liability) contained within the Source Code Form of the
     Covered Software, except that You may alter any license notices to the
     extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
     behalf of any Contributor. You must make it absolutely clear that any
     such warranty, support, indemnity, or liability obligation is offered
 by
     You alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation
```

```
   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
   judicial order, or regulation then You must: (a) comply with the terms of
   this License to the maximum extent possible; and (b) describe the
   limitations and the code they affect. Such description must be placed in
 a
   text file included with all distributions of the Covered Software under
   this License. Except to the extent prohibited by statute or regulation,
   such description must be sufficiently detailed for a recipient of
 ordinary
   skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
     basis, if such Contributor fails to notify You of the non-compliance by
     some reasonable means prior to 60 days after You have come back into
     compliance. Moreover, Your grants from a particular Contributor are
     reinstated on an ongoing basis if such Contributor notifies You of the
     non-compliance by some reasonable means, this is the first time You
 have
     received notice of non-compliance with this License from such
     Contributor, and You become compliant prior to 30 days after Your
 receipt
     of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions,
     counter-claims, and cross-claims) alleging that a Contributor Version
     directly or indirectly infringes any patent, then the rights granted to
     You by any and all Contributors for the Covered Software under Section
     2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an "as is" basis,
   without warranty of any kind, either expressed, implied, or statutory,
   including, without limitation, warranties that the Covered Software is
 free
   of defects, merchantable, fit for a particular purpose or non-infringing.
   The entire risk as to the quality and performance of the Covered Software
   is with You. Should any Covered Software prove defective in any respect,
   You (not any Contributor) assume the cost of any necessary servicing,
   repair, or correction. This disclaimer of warranty constitutes an
 essential
   part of this License. No use of  any Covered Software is authorized under
   this License except under this disclaimer.

7. Limitation of Liability
```

```
   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
   such party's negligence to the extent applicable law prohibits such
   limitation. Some jurisdictions do not allow the exclusion or limitation
 of
   incidental or consequential damages, so this exclusion and limitation may
   not apply to You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
   of a jurisdiction where the defendant maintains its principal place of
   business and such litigation shall be governed by laws of that
   jurisdiction, without reference to its conflict-of-law provisions.
 Nothing
   in this Section shall prevent a party's ability to bring cross-claims or
   counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
   matter hereof. If any provision of this License is held to be
   unenforceable, such provision shall be reformed only to the extent
   necessary to make it enforceable. Any law or regulation which provides
 that
   the language of a contract shall be construed against the drafter shall
 not
   be used to construe this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
      of the License under which You originally received the Covered
 Software,
      or under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
      modified version of this License if you rename the license and remove
      any references to the name of the license steward (except to note that
      such modified license differs from this License).
```

```
10.4. Distributing Source Code Form that is Incompatible With Secondary
      Licenses If You choose to distribute Source Code Form that is
      Incompatible With Secondary Licenses under the terms of this version
 of
      the License, the notice described in Exhibit B of this License must be
      attached.

Exhibit A - Source Code Form License Notice

      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
      obtain one at
      http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

      This Source Code Form is "Incompatible
      With Secondary Licenses", as defined by
      the Mozilla Public License, v. 2.0.
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

                                Apache License
```

```
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
```

```
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
                               Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
```

```
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
```

```
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
```

```
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
```

```
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
```

```
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.
```

```
"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
```

```
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
```

```
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
```

```
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Kubernetes Authors / Component(s): client-go 8.0

```
Copyright (c) 2012 Dave Grijalva
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
    The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

```
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
```

```
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
```

```
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
```

```
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

                              Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell

Please consider promoting this project if you find it useful.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2012-2013 Rackspace, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License.  You may obtain a copy of
 the
License at

  http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.  See the License for the
specific language governing permissions and limitations under the License.


------

    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

                            Apache License
                       Version 2.0, January 2004
                    http://www.apache.org/licenses/
```

```
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Copyright (c) 2013 Dario Castañé. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2009 The oauth2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2014 Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Copyright (c) 2011-2012 Peter Bourgon
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2014-2015 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright © 2012 Greg Jones (greg.jones@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the “Software”), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
```

```
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2015 Microsoft Corporation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. "Contributor Version"

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

     means Covered Software of a particular Contributor.

1.4. "Covered Software"

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. "Incompatible With Secondary Licenses"
```

```
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the terms
 of
        a Secondary License.

1.6. "Executable Form"

     means any form of the work other than Source Code Form.

1.7. "Larger Work"

     means a work that combines Covered Software with other material, in a
     separate file or files, that is not Covered Software.

1.8. "License"

     means this document.

1.9. "Licensable"

     means having the right to grant, to the maximum extent possible,
 whether
     at the time of the initial grant or subsequently, any and all of the
     rights conveyed by this License.

1.10. "Modifications"

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered Software;
 or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

      means any patent claim(s), including without limitation, method,
      process, and apparatus claims, in any patent Licensable by such
      Contributor that would be infringed, but for the grant of the License,
      by the making, using, selling, offering for sale, having made, import,
      or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

      means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

      means an individual or a legal entity exercising rights under this
      License. For legal entities, "You" includes any entity that controls,
 is
```

```
      controlled by, or is under common control with You. For purposes of
 this
      definition, "control" means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
        as part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
        Contributions or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
     become effective for each Contribution on the date the Contributor
 first
     distributes such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under
     this License. No additional rights or licenses will be implied from the
     distribution or licensing of Covered Software under this License.
     Notwithstanding Section 2.1(b) above, no patent license is granted by a
     Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
        its Contributions.

     This License does not grant any rights in the trademarks, service
 marks,
     or logos of any Contributor (except as may be necessary to comply with
     the notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
```

```
     License (see Section 10.2) or under the terms of a Secondary License
 (if
     permitted under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
     Contributions are its original creation(s) or it has sufficient rights
 to
     grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
     applicable copyright doctrines of fair use, fair dealing, or other
     equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
     the terms of this License. You must inform recipients that the Source
     Code Form of the Covered Software is governed by the terms of this
     License, and how they can obtain a copy of this License. You may not
     attempt to alter or restrict the recipients' rights in the Source Code
     Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
        License, or sublicense it under different terms, provided that the
        license for the Executable Form does not attempt to limit or alter
 the
        recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
     the Covered Software. If the Larger Work is a combination of Covered
     Software with a work governed by one or more Secondary Licenses, and
 the
     Covered Software is not Incompatible With Secondary Licenses, this
     License permits You to additionally distribute such Covered Software
```

```
     under the terms of such Secondary License(s), so that the recipient of
     the Larger Work may, at their option, further distribute the Covered
     Software under the terms of either this License or such Secondary
     License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
     (including copyright notices, patent notices, disclaimers of warranty,
 or
     limitations of liability) contained within the Source Code Form of the
     Covered Software, except that You may alter any license notices to the
     extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
     behalf of any Contributor. You must make it absolutely clear that any
     such warranty, support, indemnity, or liability obligation is offered
 by
     You alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
   judicial order, or regulation then You must: (a) comply with the terms of
   this License to the maximum extent possible; and (b) describe the
   limitations and the code they affect. Such description must be placed in
 a
   text file included with all distributions of the Covered Software under
   this License. Except to the extent prohibited by statute or regulation,
   such description must be sufficiently detailed for a recipient of
 ordinary
   skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
     basis, if such Contributor fails to notify You of the non-compliance by
     some reasonable means prior to 60 days after You have come back into
     compliance. Moreover, Your grants from a particular Contributor are
     reinstated on an ongoing basis if such Contributor notifies You of the
     non-compliance by some reasonable means, this is the first time You
 have
     received notice of non-compliance with this License from such
     Contributor, and You become compliant prior to 30 days after Your
 receipt
     of the notice.
```

```
5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions,
     counter-claims, and cross-claims) alleging that a Contributor Version
     directly or indirectly infringes any patent, then the rights granted to
     You by any and all Contributors for the Covered Software under Section
     2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an "as is" basis,
   without warranty of any kind, either expressed, implied, or statutory,
   including, without limitation, warranties that the Covered Software is
 free
   of defects, merchantable, fit for a particular purpose or non-infringing.
   The entire risk as to the quality and performance of the Covered Software
   is with You. Should any Covered Software prove defective in any respect,
   You (not any Contributor) assume the cost of any necessary servicing,
   repair, or correction. This disclaimer of warranty constitutes an
 essential
   part of this License. No use of  any Covered Software is authorized under
   this License except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
   such party's negligence to the extent applicable law prohibits such
   limitation. Some jurisdictions do not allow the exclusion or limitation
 of
   incidental or consequential damages, so this exclusion and limitation may
   not apply to You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
   of a jurisdiction where the defendant maintains its principal place of
   business and such litigation shall be governed by laws of that
   jurisdiction, without reference to its conflict-of-law provisions.
 Nothing
   in this Section shall prevent a party's ability to bring cross-claims or
   counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
   matter hereof. If any provision of this License is held to be
   unenforceable, such provision shall be reformed only to the extent
   necessary to make it enforceable. Any law or regulation which provides
 that
```

```
   the language of a contract shall be construed against the drafter shall
 not
   be used to construe this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
      of the License under which You originally received the Covered
 Software,
      or under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
      modified version of this License if you rename the license and remove
      any references to the name of the license steward (except to note that
      such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
      Licenses If You choose to distribute Source Code Form that is
      Incompatible With Secondary Licenses under the terms of this version
 of
      the License, the notice described in Exhibit B of this License must be
      attached.

Exhibit A - Source Code Form License Notice

      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
      obtain one at
      http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

      This Source Code Form is "Incompatible
      With Secondary Licenses", as defined by
      the Mozilla Public License, v. 2.0.
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and distribute this software for any
```

```
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
```

```
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
```

```
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
```

```
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
```

```
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
```

```
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work
```

```
To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Kubernetes Authors / Component(s): external-storage 4.0.0

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
```

```
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
```

```
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
```

```
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
```

```
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
```

```
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2014 Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


The MIT License (MIT)

Copyright (c) 2014 Alex Saskevich

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
```

```
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Copyright (C) 2013 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
```

```
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


ISC License

Copyright (c) 2012-2013 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


Copyright (c) 2012 Dave Grijalva

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



Copyright (c) 2014-2016 The godo AUTHORS. All rights reserved.

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
```

```
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

======================
Portions of the client are based on code at:
https://github.com/google/go-github/

Copyright (c) 2013 The go-github AUTHORS. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
```

```
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                              Apache License
                         Version 2.0, January 2004
                      https://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2013-2016 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                                   Apache License
```

```
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2015 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
                                Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
```

```
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
```

```
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2015 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
  See the License for the specific language governing permissions and
  limitations under the License.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2014-2015 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Attribution-ShareAlike 4.0 International

=======================================================================

Creative Commons Corporation ("Creative Commons") is not a law firm and
does not provide legal services or legal advice. Distribution of
Creative Commons public licenses does not create a lawyer-client or
other relationship. Creative Commons makes its licenses and related
information available on an "as-is" basis. Creative Commons gives no
warranties regarding its licenses, any material licensed under their
terms and conditions, or any related information. Creative Commons
disclaims all liability for damages resulting from their use to the
fullest extent possible.

Using Creative Commons Public Licenses

Creative Commons public licenses provide a standard set of terms and
conditions that creators and other rights holders may use to share
original works of authorship and other material subject to copyright
and certain other rights specified in the public license below. The
following considerations are for informational purposes only, are not
exhaustive, and do not form part of our licenses.

     Considerations for licensors: Our public licenses are
     intended for use by those authorized to give the public
     permission to use material in ways otherwise restricted by
     copyright and certain other rights. Our licenses are
     irrevocable. Licensors should read and understand the terms
     and conditions of the license they choose before applying it.
     Licensors should also secure all rights necessary before
     applying our licenses so that the public can reuse the
     material as expected. Licensors should clearly mark any
     material not subject to the license. This includes other CC-
     licensed material, or material used under an exception or
     limitation to copyright. More considerations for licensors:
 wiki.creativecommons.org/Considerations_for_licensors

     Considerations for the public: By using one of our public
     licenses, a licensor grants the public permission to use the
     licensed material under specified terms and conditions. If
     the licensor's permission is not necessary for any reason--for
     example, because of any applicable exception or limitation to
     copyright--then that use is not regulated by the license. Our
     licenses grant only permissions under copyright and certain
     other rights that a licensor has authority to grant. Use of
     the licensed material may still be restricted for other
     reasons, including because others have copyright or other
     rights in the material. A licensor may make special requests,
     such as asking that all changes be marked or described.
     Although not required by our licenses, you are encouraged to
     respect those requests where reasonable. More_considerations
     for the public:
 wiki.creativecommons.org/Considerations_for_licensees

=======================================================================

Creative Commons Attribution-ShareAlike 4.0 International Public
```

```
License

By exercising the Licensed Rights (defined below), You accept and agree
to be bound by the terms and conditions of this Creative Commons
Attribution-ShareAlike 4.0 International Public License ("Public
License"). To the extent this Public License may be interpreted as a
contract, You are granted the Licensed Rights in consideration of Your
acceptance of these terms and conditions, and the Licensor grants You
such rights in consideration of benefits the Licensor receives from
making the Licensed Material available under these terms and
conditions.


Section 1 -- Definitions.

  a. Adapted Material means material subject to Copyright and Similar
     Rights that is derived from or based upon the Licensed Material
     and in which the Licensed Material is translated, altered,
     arranged, transformed, or otherwise modified in a manner requiring
     permission under the Copyright and Similar Rights held by the
     Licensor. For purposes of this Public License, where the Licensed
     Material is a musical work, performance, or sound recording,
     Adapted Material is always produced where the Licensed Material is
     synched in timed relation with a moving image.

  b. Adapter's License means the license You apply to Your Copyright
     and Similar Rights in Your contributions to Adapted Material in
     accordance with the terms and conditions of this Public License.

  c. BY-SA Compatible License means a license listed at
     creativecommons.org/compatiblelicenses, approved by Creative
     Commons as essentially the equivalent of this Public License.

  d. Copyright and Similar Rights means copyright and/or similar rights
     closely related to copyright including, without limitation,
     performance, broadcast, sound recording, and Sui Generis Database
     Rights, without regard to how the rights are labeled or
     categorized. For purposes of this Public License, the rights
     specified in Section 2(b)(1)-(2) are not Copyright and Similar
     Rights.

  e. Effective Technological Measures means those measures that, in the
     absence of proper authority, may not be circumvented under laws
     fulfilling obligations under Article 11 of the WIPO Copyright
     Treaty adopted on December 20, 1996, and/or similar international
     agreements.

  f. Exceptions and Limitations means fair use, fair dealing, and/or
     any other exception or limitation to Copyright and Similar Rights
     that applies to Your use of the Licensed Material.

  g. License Elements means the license attributes listed in the name
     of a Creative Commons Public License. The License Elements of this
     Public License are Attribution and ShareAlike.

  h. Licensed Material means the artistic or literary work, database,
     or other material to which the Licensor applied this Public
     License.

  i. Licensed Rights means the rights granted to You subject to the
     terms and conditions of this Public License, which are limited to
     all Copyright and Similar Rights that apply to Your use of the
     Licensed Material and that the Licensor has authority to license.
```

```
  j. Licensor means the individual(s) or entity(ies) granting rights
     under this Public License.

  k. Share means to provide material to the public by any means or
     process that requires permission under the Licensed Rights, such
     as reproduction, public display, public performance, distribution,
     dissemination, communication, or importation, and to make material
     available to the public including in ways that members of the
     public may access the material from a place and at a time
     individually chosen by them.

  l. Sui Generis Database Rights means rights other than copyright
     resulting from Directive 96/9/EC of the European Parliament and of
     the Council of 11 March 1996 on the legal protection of databases,
     as amended and/or succeeded, as well as other essentially
     equivalent rights anywhere in the world.

  m. You means the individual or entity exercising the Licensed Rights
     under this Public License. Your has a corresponding meaning.


Section 2 -- Scope.

  a. License grant.

       1. Subject to the terms and conditions of this Public License,
          the Licensor hereby grants You a worldwide, royalty-free,
          non-sublicensable, non-exclusive, irrevocable license to
          exercise the Licensed Rights in the Licensed Material to:

            a. reproduce and Share the Licensed Material, in whole or
               in part; and

            b. produce, reproduce, and Share Adapted Material.

       2. Exceptions and Limitations. For the avoidance of doubt, where
          Exceptions and Limitations apply to Your use, this Public
          License does not apply, and You do not need to comply with
          its terms and conditions.

       3. Term. The term of this Public License is specified in Section
          6(a).

       4. Media and formats; technical modifications allowed. The
          Licensor authorizes You to exercise the Licensed Rights in
          all media and formats whether now known or hereafter created,
          and to make technical modifications necessary to do so. The
          Licensor waives and/or agrees not to assert any right or
          authority to forbid You from making technical modifications
          necessary to exercise the Licensed Rights, including
          technical modifications necessary to circumvent Effective
          Technological Measures. For purposes of this Public License,
          simply making modifications authorized by this Section 2(a)
          (4) never produces Adapted Material.

       5. Downstream recipients.

            a. Offer from the Licensor -- Licensed Material. Every
               recipient of the Licensed Material automatically
               receives an offer from the Licensor to exercise the
               Licensed Rights under the terms and conditions of this
               Public License.

            b. Additional offer from the Licensor -- Adapted Material.
```

```
                Every recipient of Adapted Material from You
                automatically receives an offer from the Licensor to
                exercise the Licensed Rights in the Adapted Material
                under the conditions of the Adapter's License You apply.

             c. No downstream restrictions. You may not offer or impose
                any additional or different terms or conditions on, or
                apply any Effective Technological Measures to, the
                Licensed Material if doing so restricts exercise of the
                Licensed Rights by any recipient of the Licensed
                Material.

        6. No endorsement. Nothing in this Public License constitutes or
           may be construed as permission to assert or imply that You
           are, or that Your use of the Licensed Material is, connected
           with, or sponsored, endorsed, or granted official status by,
           the Licensor or others designated to receive attribution as
           provided in Section 3(a)(1)(A)(i).

  b. Other rights.

        1. Moral rights, such as the right of integrity, are not
           licensed under this Public License, nor are publicity,
           privacy, and/or other similar personality rights; however, to
           the extent possible, the Licensor waives and/or agrees not to
           assert any such rights held by the Licensor to the limited
           extent necessary to allow You to exercise the Licensed
           Rights, but not otherwise.

        2. Patent and trademark rights are not licensed under this
           Public License.

        3. To the extent possible, the Licensor waives any right to
           collect royalties from You for the exercise of the Licensed
           Rights, whether directly or through a collecting society
           under any voluntary or waivable statutory or compulsory
           licensing scheme. In all other cases the Licensor expressly
           reserves any right to collect such royalties.


Section 3 -- License Conditions.

Your exercise of the Licensed Rights is expressly made subject to the
following conditions.

  a. Attribution.

        1. If You Share the Licensed Material (including in modified
           form), You must:

             a. retain the following if it is supplied by the Licensor
                with the Licensed Material:

                  i. identification of the creator(s) of the Licensed
                     Material and any others designated to receive
                     attribution, in any reasonable manner requested by
                     the Licensor (including by pseudonym if
                     designated);

                 ii. a copyright notice;

                iii. a notice that refers to this Public License;

                 iv. a notice that refers to the disclaimer of
```

```
                    warranties;

                  v. a URI or hyperlink to the Licensed Material to the
                     extent reasonably practicable;

            b. indicate if You modified the Licensed Material and
               retain an indication of any previous modifications; and

            c. indicate the Licensed Material is licensed under this
               Public License, and include the text of, or the URI or
               hyperlink to, this Public License.

       2. You may satisfy the conditions in Section 3(a)(1) in any
          reasonable manner based on the medium, means, and context in
          which You Share the Licensed Material. For example, it may be
          reasonable to satisfy the conditions by providing a URI or
          hyperlink to a resource that includes the required
          information.

       3. If requested by the Licensor, You must remove any of the
          information required by Section 3(a)(1)(A) to the extent
          reasonably practicable.

  b. ShareAlike.

     In addition to the conditions in Section 3(a), if You Share
     Adapted Material You produce, the following conditions also apply.

       1. The Adapter's License You apply must be a Creative Commons
          license with the same License Elements, this version or
          later, or a BY-SA Compatible License.

       2. You must include the text of, or the URI or hyperlink to, the
          Adapter's License You apply. You may satisfy this condition
          in any reasonable manner based on the medium, means, and
          context in which You Share Adapted Material.

       3. You may not offer or impose any additional or different terms
          or conditions on, or apply any Effective Technological
          Measures to, Adapted Material that restrict exercise of the
          rights granted under the Adapter's License You apply.


Section 4 -- Sui Generis Database Rights.

Where the Licensed Rights include Sui Generis Database Rights that
apply to Your use of the Licensed Material:

  a. for the avoidance of doubt, Section 2(a)(1) grants You the right
     to extract, reuse, reproduce, and Share all or a substantial
     portion of the contents of the database;

  b. if You include all or a substantial portion of the database
     contents in a database in which You have Sui Generis Database
     Rights, then the database in which You have Sui Generis Database
     Rights (but not its individual contents) is Adapted Material,

     including for purposes of Section 3(b); and
  c. You must comply with the conditions in Section 3(a) if You Share
     all or a substantial portion of the contents of the database.

For the avoidance of doubt, this Section 4 supplements and does not
replace Your obligations under this Public License where the Licensed
Rights include other Copyright and Similar Rights.
```

```
Section 5 -- Disclaimer of Warranties and Limitation of Liability.

  a. UNLESS OTHERWISE SEPARATELY UNDERTAKEN BY THE LICENSOR, TO THE
     EXTENT POSSIBLE, THE LICENSOR OFFERS THE LICENSED MATERIAL AS-IS
     AND AS-AVAILABLE, AND MAKES NO REPRESENTATIONS OR WARRANTIES OF
     ANY KIND CONCERNING THE LICENSED MATERIAL, WHETHER EXPRESS,
     IMPLIED, STATUTORY, OR OTHER. THIS INCLUDES, WITHOUT LIMITATION,
     WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR
     PURPOSE, NON-INFRINGEMENT, ABSENCE OF LATENT OR OTHER DEFECTS,
     ACCURACY, OR THE PRESENCE OR ABSENCE OF ERRORS, WHETHER OR NOT
     KNOWN OR DISCOVERABLE. WHERE DISCLAIMERS OF WARRANTIES ARE NOT
     ALLOWED IN FULL OR IN PART, THIS DISCLAIMER MAY NOT APPLY TO YOU.

  b. TO THE EXTENT POSSIBLE, IN NO EVENT WILL THE LICENSOR BE LIABLE
     TO YOU ON ANY LEGAL THEORY (INCLUDING, WITHOUT LIMITATION,
     NEGLIGENCE) OR OTHERWISE FOR ANY DIRECT, SPECIAL, INDIRECT,
     INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, OR OTHER LOSSES,
     COSTS, EXPENSES, OR DAMAGES ARISING OUT OF THIS PUBLIC LICENSE OR
     USE OF THE LICENSED MATERIAL, EVEN IF THE LICENSOR HAS BEEN
     ADVISED OF THE POSSIBILITY OF SUCH LOSSES, COSTS, EXPENSES, OR
     DAMAGES. WHERE A LIMITATION OF LIABILITY IS NOT ALLOWED IN FULL OR
     IN PART, THIS LIMITATION MAY NOT APPLY TO YOU.

  c. The disclaimer of warranties and limitation of liability provided
     above shall be interpreted in a manner that, to the extent
     possible, most closely approximates an absolute disclaimer and
     waiver of all liability.


Section 6 -- Term and Termination.

  a. This Public License applies for the term of the Copyright and
     Similar Rights licensed here. However, if You fail to comply with
     this Public License, then Your rights under this Public License
     terminate automatically.

  b. Where Your right to use the Licensed Material has terminated under
     Section 6(a), it reinstates:

       1. automatically as of the date the violation is cured, provided
          it is cured within 30 days of Your discovery of the
          violation; or

       2. upon express reinstatement by the Licensor.

     For the avoidance of doubt, this Section 6(b) does not affect any
     right the Licensor may have to seek remedies for Your violations
     of this Public License.

  c. For the avoidance of doubt, the Licensor may also offer the
     Licensed Material under separate terms or conditions or stop
     distributing the Licensed Material at any time; however, doing so
     will not terminate this Public License.

  d. Sections 1, 5, 6, 7, and 8 survive termination of this Public
     License.


Section 7 -- Other Terms and Conditions.

  a. The Licensor shall not be bound by any additional or different
     terms or conditions communicated by You unless expressly agreed.
```

```
  b. Any arrangements, understandings, or agreements regarding the
     Licensed Material not stated herein are separate from and
     independent of the terms and conditions of this Public License.


Section 8 -- Interpretation.

  a. For the avoidance of doubt, this Public License does not, and
     shall not be interpreted to, reduce, limit, restrict, or impose
     conditions on any use of the Licensed Material that could lawfully
     be made without permission under this Public License.

  b. To the extent possible, if any provision of this Public License is
     deemed unenforceable, it shall be automatically reformed to the
     minimum extent necessary to make it enforceable. If the provision
     cannot be reformed, it shall be severed from this Public License
     without affecting the enforceability of the remaining terms and
     conditions.

  c. No term or condition of this Public License will be waived and no
     failure to comply consented to unless expressly agreed to by the
     Licensor.

  d. Nothing in this Public License constitutes or may be interpreted
     as a limitation upon, or waiver of, any privileges and immunities
     that apply to the Licensor or You, including from the legal
     processes of any jurisdiction or authority.


=======================================================================

Creative Commons is not a party to its public licenses.
Notwithstanding, Creative Commons may elect to apply one of its public
licenses to material it publishes and in those instances will be
considered the "Licensor." Except for the limited purpose of indicating
that material is shared under a Creative Commons public license or as
otherwise permitted by the Creative Commons policies published at
creativecommons.org/policies, Creative Commons does not authorize the
use of the trademark "Creative Commons" or any other trademark or logo
of Creative Commons without its prior written consent including,
without limitation, in connection with any unauthorized modifications
to any of its public licenses or any other arrangements,
understandings, or agreements concerning use of licensed material. For
the avoidance of doubt, this paragraph does not form part of the public
licenses.

Creative Commons may be contacted at creativecommons.org.


Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012 fsnotify Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
```

```
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
```

```
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.
```

```
Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.

   Copyright 2014 Unknwon

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


The MIT License (MIT)
Copyright (c) 2016, Qiang Xue

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software
and associated documentation files (the "Software"), to deal in the Software
 without restriction,
including without limitation the rights to use, copy, modify, merge,
 publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom the Software
is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING
BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
 PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE SOFTWARE.


Protocol Buffers for Go with Gadgets

Copyright (c) 2013, The GoGo Authors. All rights reserved.
http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
```

```
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.
```

```
4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
```

```
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.

   Copyright [yyyy] [name of copyright owner]
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
```

```
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
```

```
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
```

```
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.
```

```
   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.




                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Copyright (c) 2013 Google. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



Copyright 2012-2013 Rackspace, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License.  You may obtain a copy of
 the
License at
```

```
  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.  See the License for the
specific language governing permissions and limitations under the License.


------

    Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
```

```
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
```

```
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Copyright © 2012 Greg Jones (greg.jones@gmail.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2013, Georg Reinke (<guelfey at gmail dot com>)
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

```
1.4. "Covered Software"

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. "Incompatible With Secondary Licenses"
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the terms
 of
        a Secondary License.

1.6. "Executable Form"

     means any form of the work other than Source Code Form.

1.7. "Larger Work"

     means a work that combines Covered Software with other material, in a
     separate file or files, that is not Covered Software.

1.8. "License"

     means this document.

1.9. "Licensable"

     means having the right to grant, to the maximum extent possible,
 whether
     at the time of the initial grant or subsequently, any and all of the
     rights conveyed by this License.

1.10. "Modifications"

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered Software;
 or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

      means any patent claim(s), including without limitation, method,
      process, and apparatus claims, in any patent Licensable by such
      Contributor that would be infringed, but for the grant of the License,
      by the making, using, selling, offering for sale, having made, import,
      or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.
```

```
1.13. "Source Code Form"

      means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

      means an individual or a legal entity exercising rights under this
      License. For legal entities, "You" includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, "control" means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
        as part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
        Contributions or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
     become effective for each Contribution on the date the Contributor
 first
     distributes such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under
     this License. No additional rights or licenses will be implied from the
     distribution or licensing of Covered Software under this License.
     Notwithstanding Section 2.1(b) above, no patent license is granted by a
     Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
        its Contributions.
```

```
     This License does not grant any rights in the trademarks, service
 marks,
     or logos of any Contributor (except as may be necessary to comply with
     the notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
     License (see Section 10.2) or under the terms of a Secondary License
 (if
     permitted under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
     Contributions are its original creation(s) or it has sufficient rights
 to
     grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
     applicable copyright doctrines of fair use, fair dealing, or other
     equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.


3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
     the terms of this License. You must inform recipients that the Source
     Code Form of the Covered Software is governed by the terms of this
     License, and how they can obtain a copy of this License. You may not
     attempt to alter or restrict the recipients' rights in the Source Code
     Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
        License, or sublicense it under different terms, provided that the
        license for the Executable Form does not attempt to limit or alter
 the
        recipients' rights in the Source Code Form under this License.
```

```
3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
     the Covered Software. If the Larger Work is a combination of Covered
     Software with a work governed by one or more Secondary Licenses, and
 the
     Covered Software is not Incompatible With Secondary Licenses, this
     License permits You to additionally distribute such Covered Software
     under the terms of such Secondary License(s), so that the recipient of
     the Larger Work may, at their option, further distribute the Covered
     Software under the terms of either this License or such Secondary
     License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
     (including copyright notices, patent notices, disclaimers of warranty,
 or
     limitations of liability) contained within the Source Code Form of the
     Covered Software, except that You may alter any license notices to the
     extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
     behalf of any Contributor. You must make it absolutely clear that any
     such warranty, support, indemnity, or liability obligation is offered
 by
     You alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
   judicial order, or regulation then You must: (a) comply with the terms of
   this License to the maximum extent possible; and (b) describe the
   limitations and the code they affect. Such description must be placed in
 a
   text file included with all distributions of the Covered Software under
   this License. Except to the extent prohibited by statute or regulation,
   such description must be sufficiently detailed for a recipient of
 ordinary
   skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
     basis, if such Contributor fails to notify You of the non-compliance by
     some reasonable means prior to 60 days after You have come back into
```

```
     compliance. Moreover, Your grants from a particular Contributor are
     reinstated on an ongoing basis if such Contributor notifies You of the
     non-compliance by some reasonable means, this is the first time You
 have
     received notice of non-compliance with this License from such
     Contributor, and You become compliant prior to 30 days after Your
 receipt
     of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions,
     counter-claims, and cross-claims) alleging that a Contributor Version
     directly or indirectly infringes any patent, then the rights granted to
     You by any and all Contributors for the Covered Software under Section
     2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an "as is" basis,
   without warranty of any kind, either expressed, implied, or statutory,
   including, without limitation, warranties that the Covered Software is
 free
   of defects, merchantable, fit for a particular purpose or non-infringing.
   The entire risk as to the quality and performance of the Covered Software
   is with You. Should any Covered Software prove defective in any respect,
   You (not any Contributor) assume the cost of any necessary servicing,
   repair, or correction. This disclaimer of warranty constitutes an
 essential
   part of this License. No use of  any Covered Software is authorized under
   this License except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
   such party's negligence to the extent applicable law prohibits such
   limitation. Some jurisdictions do not allow the exclusion or limitation
 of
   incidental or consequential damages, so this exclusion and limitation may
   not apply to You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
   of a jurisdiction where the defendant maintains its principal place of
   business and such litigation shall be governed by laws of that
   jurisdiction, without reference to its conflict-of-law provisions.
 Nothing
   in this Section shall prevent a party's ability to bring cross-claims or
```

```
   counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
   matter hereof. If any provision of this License is held to be
   unenforceable, such provision shall be reformed only to the extent
   necessary to make it enforceable. Any law or regulation which provides
 that
   the language of a contract shall be construed against the drafter shall
 not
   be used to construe this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
      of the License under which You originally received the Covered
 Software,
      or under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
      modified version of this License if you rename the license and remove
      any references to the name of the license steward (except to note that
      such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
      Licenses If You choose to distribute Source Code Form that is
      Incompatible With Secondary Licenses under the terms of this version
 of
      the License, the notice described in Exhibit B of this License must be
      attached.

Exhibit A - Source Code Form License Notice

      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
      obtain one at
      http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
```

```
      This Source Code Form is "Incompatible
      With Secondary Licenses", as defined by
      the Mozilla Public License, v. 2.0.


Mozilla Public License, version 2.0

1. Definitions

1.1. “Contributor”

     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.

1.2. “Contributor Version”

     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”

     means Covered Software of a particular Contributor.

1.4. “Covered Software”

     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
     thereof.

1.5. “Incompatible With Secondary Licenses”
     means

     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or

     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.

1.6. “Executable Form”

     means any form of the work other than Source Code Form.

1.7. “Larger Work”

     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.

1.8. “License”

     means this document.

1.9. “Licensable”

     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.
```

```
1.10. “Modifications”

     means any of the following:

     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or

     b. any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor

      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.

1.12. “Secondary License”

      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”

      means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)

      means an individual or a legal entity exercising rights under this
      License. For legal entities, “You” includes any entity that controls,
 is
      controlled by, or is under common control with You. For purposes of
 this
      definition, “control” means (a) the power, direct or indirect, to
 cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.


2. License Grants and Conditions

2.1. Grants

     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:

     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and

     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
```

```
        or its Contributor Version.

2.2. Effective Date

     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.

2.3. Limitations on Grant Scope

     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:

     a. for any code that a Contributor has removed from Covered Software;
 or

     b. for infringements caused by: (i) Your and any other third party's
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or

     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.

     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).

2.4. Subsequent Licenses

     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).

2.5. Representation

     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.

2.6. Fair Use

     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.
```

```
3. Responsibilities

3.1. Distribution of Source Form

     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

     If You distribute Covered Software in Executable Form then:

     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and

     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipients'
        rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).

3.4. Notices

     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.
```

```
3.5. Application of Additional Terms

     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.

4. Inability to Comply Due to Statute or Regulation

   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.
```

```
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.

6. Disclaimer of Warranty

   Covered Software is provided under this License on an “as is” basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.

7. Limitation of Liability

   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
   party’s negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation

   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous

   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
```

```
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.


10. Versions of the License

10.1. New Versions

      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.

10.2. Effect of New Versions

      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.

10.3. Modified Versions

      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
      obtain one at
      http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice

      This Source Code Form is “Incompatible
      With Secondary Licenses”, as defined by
      the Mozilla Public License, v. 2.0.
```

```
Heketi code is released under various licenses:

The REST API client code (in go and python) is released
under a dual license of Apache 2.0 or LGPLv3+.

The other parts of heketi (server, cli, tests, ...) are released
under a dual license of LGPLv3+ or GPLv2.


Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
```

```
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Copyright (c) 2013 Dario Castañé. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright 2014 Alan Shreve

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
```

```
limitations under the License.


Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
```

```
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

goproperties - properties file decoder for Go

Copyright (c) 2013-2014 - Frank Schroeder

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
```

```
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2013 Matt T. Proud

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.


Extensions of the original work are copyright (c) 2011 Miek Gieben

As this is fork of the official Go code the same license applies:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



The MIT License (MIT)

Copyright (c) 2013 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


                                 Apache License
```

```
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
```

```
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
```

```
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



                             Apache License
                       Version 2.0, January 2004
                    https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).
```

```
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2016 Docker, Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Attribution-ShareAlike 4.0 International

=======================================================================

Creative Commons Corporation ("Creative Commons") is not a law firm and
does not provide legal services or legal advice. Distribution of
Creative Commons public licenses does not create a lawyer-client or
other relationship. Creative Commons makes its licenses and related
information available on an "as-is" basis. Creative Commons gives no
warranties regarding its licenses, any material licensed under their
terms and conditions, or any related information. Creative Commons
disclaims all liability for damages resulting from their use to the
fullest extent possible.

Using Creative Commons Public Licenses

Creative Commons public licenses provide a standard set of terms and
conditions that creators and other rights holders may use to share
original works of authorship and other material subject to copyright
and certain other rights specified in the public license below. The
following considerations are for informational purposes only, are not
exhaustive, and do not form part of our licenses.

     Considerations for licensors: Our public licenses are
     intended for use by those authorized to give the public
     permission to use material in ways otherwise restricted by
     copyright and certain other rights. Our licenses are
     irrevocable. Licensors should read and understand the terms
     and conditions of the license they choose before applying it.
     Licensors should also secure all rights necessary before
     applying our licenses so that the public can reuse the
     material as expected. Licensors should clearly mark any
     material not subject to the license. This includes other CC-
     licensed material, or material used under an exception or
     limitation to copyright. More considerations for licensors:
 wiki.creativecommons.org/Considerations_for_licensors
```

```
     Considerations for the public: By using one of our public
     licenses, a licensor grants the public permission to use the
     licensed material under specified terms and conditions. If
     the licensor's permission is not necessary for any reason--for
     example, because of any applicable exception or limitation to
     copyright--then that use is not regulated by the license. Our
     licenses grant only permissions under copyright and certain
     other rights that a licensor has authority to grant. Use of
     the licensed material may still be restricted for other
     reasons, including because others have copyright or other
     rights in the material. A licensor may make special requests,
     such as asking that all changes be marked or described.
     Although not required by our licenses, you are encouraged to
     respect those requests where reasonable. More_considerations
     for the public:
 wiki.creativecommons.org/Considerations_for_licensees

=======================================================================

Creative Commons Attribution-ShareAlike 4.0 International Public
License

By exercising the Licensed Rights (defined below), You accept and agree
to be bound by the terms and conditions of this Creative Commons
Attribution-ShareAlike 4.0 International Public License ("Public
License"). To the extent this Public License may be interpreted as a
contract, You are granted the Licensed Rights in consideration of Your
acceptance of these terms and conditions, and the Licensor grants You
such rights in consideration of benefits the Licensor receives from
making the Licensed Material available under these terms and
conditions.


Section 1 -- Definitions.

  a. Adapted Material means material subject to Copyright and Similar
     Rights that is derived from or based upon the Licensed Material
     and in which the Licensed Material is translated, altered,
     arranged, transformed, or otherwise modified in a manner requiring
     permission under the Copyright and Similar Rights held by the
     Licensor. For purposes of this Public License, where the Licensed
     Material is a musical work, performance, or sound recording,
     Adapted Material is always produced where the Licensed Material is
     synched in timed relation with a moving image.

  b. Adapter's License means the license You apply to Your Copyright
     and Similar Rights in Your contributions to Adapted Material in
     accordance with the terms and conditions of this Public License.

  c. BY-SA Compatible License means a license listed at
     creativecommons.org/compatiblelicenses, approved by Creative
     Commons as essentially the equivalent of this Public License.

  d. Copyright and Similar Rights means copyright and/or similar rights
     closely related to copyright including, without limitation,
     performance, broadcast, sound recording, and Sui Generis Database
     Rights, without regard to how the rights are labeled or
     categorized. For purposes of this Public License, the rights
     specified in Section 2(b)(1)-(2) are not Copyright and Similar
     Rights.

  e. Effective Technological Measures means those measures that, in the
     absence of proper authority, may not be circumvented under laws
```

```
      fulfilling obligations under Article 11 of the WIPO Copyright
      Treaty adopted on December 20, 1996, and/or similar international
      agreements.

   f. Exceptions and Limitations means fair use, fair dealing, and/or
      any other exception or limitation to Copyright and Similar Rights
      that applies to Your use of the Licensed Material.

   g. License Elements means the license attributes listed in the name
      of a Creative Commons Public License. The License Elements of this
      Public License are Attribution and ShareAlike.

   h. Licensed Material means the artistic or literary work, database,
      or other material to which the Licensor applied this Public
      License.

   i. Licensed Rights means the rights granted to You subject to the
      terms and conditions of this Public License, which are limited to
      all Copyright and Similar Rights that apply to Your use of the
      Licensed Material and that the Licensor has authority to license.

   j. Licensor means the individual(s) or entity(ies) granting rights
      under this Public License.

   k. Share means to provide material to the public by any means or
      process that requires permission under the Licensed Rights, such
      as reproduction, public display, public performance, distribution,
      dissemination, communication, or importation, and to make material
      available to the public including in ways that members of the
      public may access the material from a place and at a time
      individually chosen by them.

   l. Sui Generis Database Rights means rights other than copyright
      resulting from Directive 96/9/EC of the European Parliament and of
      the Council of 11 March 1996 on the legal protection of databases,
      as amended and/or succeeded, as well as other essentially
      equivalent rights anywhere in the world.

   m. You means the individual or entity exercising the Licensed Rights
      under this Public License. Your has a corresponding meaning.


Section 2 -- Scope.

   a. License grant.

         1. Subject to the terms and conditions of this Public License,
            the Licensor hereby grants You a worldwide, royalty-free,
            non-sublicensable, non-exclusive, irrevocable license to
            exercise the Licensed Rights in the Licensed Material to:

               a. reproduce and Share the Licensed Material, in whole or
                  in part; and

               b. produce, reproduce, and Share Adapted Material.

         2. Exceptions and Limitations. For the avoidance of doubt, where
            Exceptions and Limitations apply to Your use, this Public
            License does not apply, and You do not need to comply with
            its terms and conditions.

         3. Term. The term of this Public License is specified in Section
            6(a).
```

```
        4. Media and formats; technical modifications allowed. The
           Licensor authorizes You to exercise the Licensed Rights in
           all media and formats whether now known or hereafter created,
           and to make technical modifications necessary to do so. The
           Licensor waives and/or agrees not to assert any right or
           authority to forbid You from making technical modifications
           necessary to exercise the Licensed Rights, including
           technical modifications necessary to circumvent Effective
           Technological Measures. For purposes of this Public License,
           simply making modifications authorized by this Section 2(a)
           (4) never produces Adapted Material.

        5. Downstream recipients.

             a. Offer from the Licensor -- Licensed Material. Every
                recipient of the Licensed Material automatically
                receives an offer from the Licensor to exercise the
                Licensed Rights under the terms and conditions of this
                Public License.

             b. Additional offer from the Licensor -- Adapted Material.
                Every recipient of Adapted Material from You
                automatically receives an offer from the Licensor to
                exercise the Licensed Rights in the Adapted Material
                under the conditions of the Adapter's License You apply.

             c. No downstream restrictions. You may not offer or impose
                any additional or different terms or conditions on, or
                apply any Effective Technological Measures to, the
                Licensed Material if doing so restricts exercise of the
                Licensed Rights by any recipient of the Licensed
                Material.

        6. No endorsement. Nothing in this Public License constitutes or
           may be construed as permission to assert or imply that You
           are, or that Your use of the Licensed Material is, connected
           with, or sponsored, endorsed, or granted official status by,
           the Licensor or others designated to receive attribution as
           provided in Section 3(a)(1)(A)(i).

  b. Other rights.

        1. Moral rights, such as the right of integrity, are not
           licensed under this Public License, nor are publicity,
           privacy, and/or other similar personality rights; however, to
           the extent possible, the Licensor waives and/or agrees not to
           assert any such rights held by the Licensor to the limited
           extent necessary to allow You to exercise the Licensed
           Rights, but not otherwise.

        2. Patent and trademark rights are not licensed under this
           Public License.

        3. To the extent possible, the Licensor waives any right to
           collect royalties from You for the exercise of the Licensed
           Rights, whether directly or through a collecting society
           under any voluntary or waivable statutory or compulsory
           licensing scheme. In all other cases the Licensor expressly
           reserves any right to collect such royalties.


Section 3 -- License Conditions.

Your exercise of the Licensed Rights is expressly made subject to the
```

```
following conditions.

  a. Attribution.

       1. If You Share the Licensed Material (including in modified
          form), You must:

            a. retain the following if it is supplied by the Licensor
               with the Licensed Material:

                 i. identification of the creator(s) of the Licensed
                    Material and any others designated to receive
                    attribution, in any reasonable manner requested by
                    the Licensor (including by pseudonym if
                    designated);

                ii. a copyright notice;

               iii. a notice that refers to this Public License;

                iv. a notice that refers to the disclaimer of
                    warranties;

                 v. a URI or hyperlink to the Licensed Material to the
                    extent reasonably practicable;

            b. indicate if You modified the Licensed Material and
               retain an indication of any previous modifications; and

            c. indicate the Licensed Material is licensed under this
               Public License, and include the text of, or the URI or
               hyperlink to, this Public License.

       2. You may satisfy the conditions in Section 3(a)(1) in any
          reasonable manner based on the medium, means, and context in
          which You Share the Licensed Material. For example, it may be
          reasonable to satisfy the conditions by providing a URI or
          hyperlink to a resource that includes the required
          information.

       3. If requested by the Licensor, You must remove any of the
          information required by Section 3(a)(1)(A) to the extent
          reasonably practicable.

  b. ShareAlike.

     In addition to the conditions in Section 3(a), if You Share
     Adapted Material You produce, the following conditions also apply.

       1. The Adapter's License You apply must be a Creative Commons
          license with the same License Elements, this version or
          later, or a BY-SA Compatible License.

       2. You must include the text of, or the URI or hyperlink to, the
          Adapter's License You apply. You may satisfy this condition
          in any reasonable manner based on the medium, means, and
          context in which You Share Adapted Material.

       3. You may not offer or impose any additional or different terms
          or conditions on, or apply any Effective Technological
          Measures to, Adapted Material that restrict exercise of the
          rights granted under the Adapter's License You apply.
```

```
Section 4 -- Sui Generis Database Rights.

Where the Licensed Rights include Sui Generis Database Rights that
apply to Your use of the Licensed Material:

  a. for the avoidance of doubt, Section 2(a)(1) grants You the right
     to extract, reuse, reproduce, and Share all or a substantial
     portion of the contents of the database;

  b. if You include all or a substantial portion of the database
     contents in a database in which You have Sui Generis Database
     Rights, then the database in which You have Sui Generis Database
     Rights (but not its individual contents) is Adapted Material,

     including for purposes of Section 3(b); and
  c. You must comply with the conditions in Section 3(a) if You Share
     all or a substantial portion of the contents of the database.

For the avoidance of doubt, this Section 4 supplements and does not
replace Your obligations under this Public License where the Licensed
Rights include other Copyright and Similar Rights.


Section 5 -- Disclaimer of Warranties and Limitation of Liability.

  a. UNLESS OTHERWISE SEPARATELY UNDERTAKEN BY THE LICENSOR, TO THE
     EXTENT POSSIBLE, THE LICENSOR OFFERS THE LICENSED MATERIAL AS-IS
     AND AS-AVAILABLE, AND MAKES NO REPRESENTATIONS OR WARRANTIES OF
     ANY KIND CONCERNING THE LICENSED MATERIAL, WHETHER EXPRESS,
     IMPLIED, STATUTORY, OR OTHER. THIS INCLUDES, WITHOUT LIMITATION,
     WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR
     PURPOSE, NON-INFRINGEMENT, ABSENCE OF LATENT OR OTHER DEFECTS,
     ACCURACY, OR THE PRESENCE OR ABSENCE OF ERRORS, WHETHER OR NOT
     KNOWN OR DISCOVERABLE. WHERE DISCLAIMERS OF WARRANTIES ARE NOT
     ALLOWED IN FULL OR IN PART, THIS DISCLAIMER MAY NOT APPLY TO YOU.

  b. TO THE EXTENT POSSIBLE, IN NO EVENT WILL THE LICENSOR BE LIABLE
     TO YOU ON ANY LEGAL THEORY (INCLUDING, WITHOUT LIMITATION,
     NEGLIGENCE) OR OTHERWISE FOR ANY DIRECT, SPECIAL, INDIRECT,
     INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, OR OTHER LOSSES,
     COSTS, EXPENSES, OR DAMAGES ARISING OUT OF THIS PUBLIC LICENSE OR
     USE OF THE LICENSED MATERIAL, EVEN IF THE LICENSOR HAS BEEN
     ADVISED OF THE POSSIBILITY OF SUCH LOSSES, COSTS, EXPENSES, OR
     DAMAGES. WHERE A LIMITATION OF LIABILITY IS NOT ALLOWED IN FULL OR
     IN PART, THIS LIMITATION MAY NOT APPLY TO YOU.

  c. The disclaimer of warranties and limitation of liability provided
     above shall be interpreted in a manner that, to the extent
     possible, most closely approximates an absolute disclaimer and
     waiver of all liability.


Section 6 -- Term and Termination.

  a. This Public License applies for the term of the Copyright and
     Similar Rights licensed here. However, if You fail to comply with
     this Public License, then Your rights under this Public License
     terminate automatically.

  b. Where Your right to use the Licensed Material has terminated under
     Section 6(a), it reinstates:

       1. automatically as of the date the violation is cured, provided
          it is cured within 30 days of Your discovery of the
```

```
          violation; or

       2. upon express reinstatement by the Licensor.

     For the avoidance of doubt, this Section 6(b) does not affect any
     right the Licensor may have to seek remedies for Your violations
     of this Public License.

  c. For the avoidance of doubt, the Licensor may also offer the
     Licensed Material under separate terms or conditions or stop
     distributing the Licensed Material at any time; however, doing so
     will not terminate this Public License.

  d. Sections 1, 5, 6, 7, and 8 survive termination of this Public
     License.


Section 7 -- Other Terms and Conditions.

  a. The Licensor shall not be bound by any additional or different
     terms or conditions communicated by You unless expressly agreed.

  b. Any arrangements, understandings, or agreements regarding the
     Licensed Material not stated herein are separate from and
     independent of the terms and conditions of this Public License.


Section 8 -- Interpretation.

  a. For the avoidance of doubt, this Public License does not, and
     shall not be interpreted to, reduce, limit, restrict, or impose
     conditions on any use of the Licensed Material that could lawfully
     be made without permission under this Public License.

  b. To the extent possible, if any provision of this Public License is
     deemed unenforceable, it shall be automatically reformed to the
     minimum extent necessary to make it enforceable. If the provision
     cannot be reformed, it shall be severed from this Public License
     without affecting the enforceability of the remaining terms and
     conditions.

  c. No term or condition of this Public License will be waived and no
     failure to comply consented to unless expressly agreed to by the
     Licensor.

  d. Nothing in this Public License constitutes or may be interpreted
     as a limitation upon, or waiver of, any privileges and immunities
     that apply to the Licensor or You, including from the legal
     processes of any jurisdiction or authority.


=======================================================================

Creative Commons is not a party to its public licenses.
Notwithstanding, Creative Commons may elect to apply one of its public
licenses to material it publishes and in those instances will be
considered the "Licensor." Except for the limited purpose of indicating
that material is shared under a Creative Commons public license or as
otherwise permitted by the Creative Commons policies published at
creativecommons.org/policies, Creative Commons does not authorize the
use of the trademark "Creative Commons" or any other trademark or logo
of Creative Commons without its prior written consent including,
without limitation, in connection with any unauthorized modifications
to any of its public licenses or any other arrangements,
```

```
understandings, or agreements concerning use of licensed material. For
the avoidance of doubt, this paragraph does not form part of the public
licenses.

Creative Commons may be contacted at creativecommons.org.


Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


The MIT License (MIT)

Copyright (c) 2013 - 2017 Thomas Pelletier, Eric Anderton

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2011-2012 Peter Bourgon
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2013, Dave Cheney
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
    The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


The MIT License (MIT)

Copyright (c) 2015 Alex Efros

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
```

```
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
```

```
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
```

```
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
```

```
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


                              Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.


The MIT License (MIT)

Copyright (c) 2014 Steve Francia

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
```

```
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.


The MIT License (MIT)

Copyright (c) 2014 Steve Francia

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


The MIT License (MIT)

Copyright (c) 2014 Steve Francia

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

objx - by Mat Ryer and Tyler Bunnell

The MIT License (MIT)

Copyright (c) 2014 Stretchr, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 - 2013 Mat Ryer and Tyler Bunnell

Please consider promoting this project if you find it useful.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


Copyright (c) 2013 Tent.is, LLC. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Tent.is, LLC nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
```

```
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2009 The oauth2 Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
```

```
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2011 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2013 Joshua Tacoma

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
```

```
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright (c) 2016 Péter Surányi.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

    apic.go
    emitterc.go
    parserc.go
    readerc.go
    scannerc.go
    writerc.go
    yamlh.go
    yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
```

```
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
```

```
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
```

```
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
```

```
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
```

```
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
```

```
   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
```

```
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.
```

```
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
```

```
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
```

```
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
```

```
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Kubernetes Authors / Component(s): Kubernetes Python Client 28.1.0

```
Top Level Component: Kubernetes Python Client
-----------------------------------------------------
TOP-LEVEL COPYRIGHT NOTICE
-----------------------------------------------------
Copyright 2014 The Kubernetes Authors.
-----------------------------------------------------
TOP-LEVEL COMPONENT LICENSE: Apache 2.0
-----------------------------------------------------


                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
```

```
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
```

```
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
```

```
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2014 The Kubernetes Authors.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-----------------------------------------------------
FOURTH-PARTY DEPENDENCIES:
-----------------------------------------------------
1. requests - License: Apache 2.0
-----------------------------------------------------
Copyright: Copyright 2019 Kenneth Reitz
License text: See above at the Top Level Component.
-----------------------------------------------------
2. certifi - License: MPL 2.0
-----------------------------------------------------
Copyright (c) Mozilla Contributors, packaged by Kenneth Reitz and others

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
```

```
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

Mozilla Public License
Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.
```

```
1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
```

```
2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
```

```
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
```

```
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.
-----------------------------------------------------
3. idna - License: BSD-3-clause
-----------------------------------------------------
Copyright: Copyright (c) 2013-2021, Kim Davies All rights reserved.
License text:
```

```
BSD 3-Clause License

Copyright (c) 2013-2021, Kim Davies All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------------
4. urllib3 - License: MIT
-----------------------------------------------------
Copyright (c) 2008-2020 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------
5. PyYAML - License: MIT
-----------------------------------------------------
Copyright:
```

```
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov
License text: See above at dependency "urllib3".
-----------------------------------------------------
6. setuptools - License: MIT
-----------------------------------------------------
Copyright: Copyright Jason R. Coombs
License text: See above at dependency "urllib3".
-----------------------------------------------------
7. six - License: MIT
-----------------------------------------------------
Copyright (c) 2010-2020 Benjamin Peterson
License text: See above at dependency "urllib3".
-----------------------------------------------------
8. charset-normalizer - License: MIT
-----------------------------------------------------
Copyright: Copyright (c) 2019 TAHRI Ahmed R.
License text: See above at dependency "urllib3".
-----------------------------------------------------
9. google-auth - License: Apache 2.0
-----------------------------------------------------
Copyright: Copyright 2019 Google LLC

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

License text: See above at the Top Level Component.
-----------------------------------------------------
10. cachetools - License: MIT
-----------------------------------------------------
Copyright: Copyright (c) 2014-2021 Thomas Kemmer
License text: See above at dependency "urllib3".
-----------------------------------------------------
11. pyasn1-modules - License: BSD-2-clause
-----------------------------------------------------
Copyright:
Copyright (c) 2005-2020, Ilya Etingof <etingof@gmail.com> All rights
 reserved.
License text:
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
```

```
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
-----------------------------------------------------
12. pyasn1 - License: BSD-2-clause
-----------------------------------------------------
Copyright:
Copyright (c) 2005-2020, Ilya Etingof <etingof@gmail.com> All rights
 reserved.
License text: See above at dependency "pyasn1-modules".
-----------------------------------------------------
13. rsa - License: Apache 2.0
-----------------------------------------------------
Copyright: Copyright 2011 Sybren A. Stüvel
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

License text: See above at the Top Level Component.
-----------------------------------------------------
14. python-dateutil - License: Apache 2.0 and BSD
-----------------------------------------------------
Copyright:
Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)
https://github.com/dateutil/dateutil/blob/master/AUTHORS.md

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.
See Apache 2.0 License text at the top component above.
-----------------------------------------------------
15. requests-oauthlib - License: ISC
-----------------------------------------------------
Copyright: Copyright (c) 2014 Kenneth Reitz.
License text:
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
-----------------------------------------------------
16. oauthlib - License: BSD-3-clause
-----------------------------------------------------
Copyright:
Copyright (c) 2019 The OAuthlib Community
All rights reserved.
License text: See above at the dependency "idna".
-----------------------------------------------------
17. websocket-client - License: Apache 2.0
-----------------------------------------------------
Copyright: Copyright 2022 engn33r
License text: See above at the Top Level Component.
-----------------------------------------------------
```

Provider: The Kubernetes Authors / Component(s): kube-state-metrics 2.12.0

```
------------------------------ Top-Level License
 ------------------------------
SPDX:Apache-2.0

---------------------------------- Copyright
 ----------------------------------
Copyright 2012 The Kubernetes Authors All rights reserved.
Copyright 2015 The Kubernetes Authors All rights reserved.
Copyright 2016 The Kubernetes Authors All rights reserved.
Copyright 2017 The Kubernetes Authors All rights reserved.
Copyright 2018 The Kubernetes Authors All rights reserved.
Copyright 2019 The Kubernetes Authors All rights reserved.
Copyright 2020 The Kubernetes Authors All rights reserved.
Copyright 2021 The Kubernetes Authors All rights reserved.
Copyright 2022 The Kubernetes Authors All rights reserved.
Copyright 2023 The Kubernetes Authors All rights reserved.

-------------------------- Fourth Party Dependencies
 --------------------------

----------------------------------- Licenses
 -----------------------------------
-  Apache-2.0
-  BSD-2-Clause
-  BSD-3-Clause
-  BSD-3-Clause--modified-by-Google
-  ISC
-  MIT
-  MPL-2.0

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/beorn7/perks

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2013 Blake Mizerany

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/blang/semver/v4

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/cespare/xxhash/v2
```

```
== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Caleb Spare

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/coreos/go-systemd/v22

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Docker, Inc.
Copyright 2015 CoreOS Inc.
Copyright 2015 CoreOS, Inc.
Copyright 2015 RedHat, Inc.
Copyright 2015, 2018 CoreOS, Inc.
Copyright 2015-2018 CoreOS, Inc.
Copyright 2016 CoreOS, Inc.
Copyright 2018 CoreOS, Inc
Copyright 2018 CoreOS, Inc.
Copyright 2019 CoreOS, Inc.
Copyright 2020 CoreOS, Inc.
Copyright 2022 CoreOS, Inc.

== Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/davecgh/go-spew

== License Type
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



== Copyright
Copyright (c) 2012-2016 Dave Collins <dave@davec.name>
```

```
Copyright (c) 2013 Dave Collins <dave@davec.name>
Copyright (c) 2013-2016 Dave Collins <dave@davec.name>
Copyright (c) 2015-2016 Dave Collins <dave@davec.name>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/dgryski/go-jump

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Damian Gryski <damian@gryski.com>

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/emicklei/go-restful/v3

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012,2013 Ernest Micklei
Copyright 2013 Ernest Micklei. All rights reserved.
Copyright 2014 Ernest Micklei. All rights reserved.
Copyright 2015 Ernest Micklei. All rights reserved.
Copyright 2018 Ernest Micklei. All rights reserved.
Copyright 2021 Ernest Micklei. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/fsnotify/fsnotify

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright © 2012 The Go Authors. All rights reserved.
Copyright © fsnotify Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/go-kit/log

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2021 Go kit
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
github.com/go-logfmt/logfmt

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015 go-logfmt
Copyright 2010 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-logr/logr

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 The logr Authors.
Copyright 2020 The logr Authors.
Copyright 2021 The logr Authors.
Copyright 2022 The logr Authors.
Copyright 2023 The logr Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-openapi/jsonpointer

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 sigu-399 ( https://github.com/sigu-399 )

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-openapi/jsonreference

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 sigu-399 ( https://github.com/sigu-399 )

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-openapi/swag

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 go-swagger maintainers

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/gobuffalo/flect

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2019 Mark Bates

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/gogo/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2013, The GoGo Authors. All rights reserved.
Copyright (c) 2015, The GoGo Authors.  rights reserved.
Copyright (c) 2015, The GoGo Authors. All rights reserved.
Copyright (c) 2016, The GoGo Authors. All rights reserved.
Copyright (c) 2017, The GoGo Authors. All rights reserved.
Copyright (c) 2018, The GoGo Authors. All rights reserved.
Copyright (c) 2019, The GoGo Authors. All rights reserved.
Copyright 2010 The Go Authors.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2016 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2018 The Go Authors.  All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
```

```
github.com/google/gnostic-models

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017 Google LLC. All Rights Reserved.
Copyright 2017-2022, Google LLC.
Copyright 2019 Google LLC. All Rights Reserved.
Copyright 2020 Google LLC. All Rights Reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/go-cmp

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2017, The Go Authors. All rights reserved.
Copyright 2018, The Go Authors. All rights reserved.
Copyright 2019, The Go Authors. All rights reserved.
Copyright 2020, The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/gofuzz

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Google Inc. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/uuid

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009,2014 Google Inc. All rights reserved.
Copyright 2016 Google Inc.  All rights reserved.
Copyright 2017 Google Inc.  All rights reserved.
Copyright 2018 Google Inc.  All rights reserved.
Copyright 2021 Google Inc.  All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/hcl

== License Type
SPDX:MPL-2.0
```

```
== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/imdario/mergo

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013 Dario Castañé. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 Dario Castañé. All rights reserved.
Copyright 2014 Dario Castañé. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/josharian/intern

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2019 Josh Bleecher Snyder

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/jpillora/backoff

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 Jaime Pillora

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/json-iterator/go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 json-iterator

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/magiconair/properties

== License Type
Copyright (c) 2013-2020, Frank Schroeder
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2013-2020, Frank Schroeder
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013-2014 Frank Schroeder. All rights reserved.
Copyright 2013-2022 Frank Schroeder. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mailru/easyjson

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2016 Mail.Ru Group

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mitchellh/mapstructure

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Mitchell Hashimoto

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/modern-go/concurrent

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/modern-go/reflect2

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/munnerz/goautoneg

== License Type
Copyright (c) 2011, Open Knowledge Foundation Ltd.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

    Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

    Neither the name of the Open Knowledge Foundation Ltd. nor the
    names of its contributors may be used to endorse or promote
    products derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
```

```
Copyright (c) 2011, Open Knowledge Foundation Ltd.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mwitkow/go-conntrack

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 Michal Witkowski. All Rights Reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/oklog/run

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/pelletier/go-toml/v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2021 - 2023 Thomas Pelletier

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/prometheus/client_golang

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2013, The Prometheus Authors
Copyright (c) 2015 Björn Rabenstein
Copyright 2010 The Go Authors
Copyright 2012-2015 The Prometheus Authors
Copyright 2013 Matt T. Proud
Copyright 2013-2015 Blake Mizerany, Björn Rabenstein
Copyright 2014 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors
Copyright 2022 The Prometheus Authors
Copyright 2023 The Prometheus Authors
```

```
== Notices
Prometheus instrumentation library for Go applications
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


The following components are included in this product:

perks - a fork of https://github.com/bmizerany/perks
https://github.com/beorn7/perks
Copyright 2013-2015 Blake Mizerany, Björn Rabenstein
See https://github.com/beorn7/perks/blob/master/README.md for license
 details.

Go support for Protocol Buffers - Google's data interchange format
http://github.com/golang/protobuf/
Copyright 2010 The Go Authors
See source code for license details.

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/client_model

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012-2015 The Prometheus Authors
Copyright 2013 Prometheus Team

== Notices
Data model artifacts for Prometheus.
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/common

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2011, Open Knowledge Foundation Ltd.
Copyright 2013 The Prometheus Authors
Copyright 2014 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
```

```
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2020 The Prometheus-operator Authors
Copyright 2021 The Prometheus Authors
Copyright 2022 The Prometheus Authors
Copyright 2023 The Prometheus Authors
Copyright 2024 The Prometheus Authors

== Notices
Common libraries shared by Prometheus Go components.
Copyright 2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/exporter-toolkit

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Matthew Holt and The Caddy Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors
Copyright 2023 The Prometheus Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/procfs

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Prometheus Team
Copyright 2014-2015 The Prometheus Authors
Copyright 2017 Prometheus Team
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors
Copyright 2022 The Prometheus Authors
Copyright 2023 The Prometheus Authors

== Notices
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

Copyright 2014-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/robfig/cron/v3

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2012 Rob Figueiredo

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/sagikazarmark/slog-shim

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/spf13/afero

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 tsuru authors. All rights reserved.
Copyright 2016-present Bjørn Erik Pedersen <bjorn.erik.pedersen@gmail.com>
Copyright © 2014 Steve Francia <spf@spf13.com>.
Copyright © 2015 Jerry Jacobs <jerry.jacobs@xor-gate.org>.
Copyright © 2015 Steve Francia <spf@spf13.com>.
Copyright © 2016 Steve Francia <spf@spf13.com>.
Copyright © 2018 Steve Francia <spf@spf13.com>.
Copyright © 2021 Vasily Ovchinnikov <vasily@remerge.io>.
Copyright © 2022 Steve Francia <spf@spf13.com>.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/spf13/cast

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Steve Francia
Copyright 2011 The Go Authors. All rights reserved.
Copyright © 2014 Steve Francia <spf@spf13.com>.

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/spf13/cobra

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013-2023 The Cobra Authors

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/spf13/pflag

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/spf13/viper

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Steve Francia
Copyright © 2014 Steve Francia <spf@spf13.com>.
Copyright © 2015 Steve Francia <spf@spf13.com>.
Copyright © 2016 Steve Francia <spf@spf13.com>.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/subosito/gotenv

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Alif Rachmawadi

---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/crypto

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright (c) 2021 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/net

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
```

```
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/oauth2

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2015 The oauth2 Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2017 The oauth2 Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The oauth2 Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
```

```
golang.org/x/sync

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
```

```
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/term

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
```

```
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/time

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
```

```
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 Google Inc.  All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
```

```
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/inf.v0

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 Péter Surányi. Portions Copyright (c) 2009 The Go

---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/ini.v1

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Unknwon
Copyright 2015 Unknwon
Copyright 2016 Unknwon
Copyright 2017 Unknwon
Copyright 2019 Unknwon

---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/yaml.v2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2006 Kirill Simonov
Copyright 2011-2016 Canonical Ltd.

== Notices
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
```

```
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 ----------------------------------

== Dependency
gopkg.in/yaml.v3

== License Type

This project is covered by two different licenses: MIT and Apache.

#### MIT License ####

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

    apic.go emitterc.go parserc.go readerc.go scannerc.go
    writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

### Apache License ###

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0
```

```
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.



== Copyright
Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov
Copyright (c) 2011-2019 Canonical Ltd
Copyright 2011-2016 Canonical Ltd.

== Notices
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


--------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/api

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2023 The Kubernetes Authors.
Copyright 2024 The Kubernetes Authors.

--------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/apimachinery

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
```

```
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2023 The Kubernetes Authors.
Copyright 2024 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/client-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2023 The Kubernetes Authors.
Copyright 2024 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/component-base

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2023 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/klog/v2

== License Type
```

```
SPDX:Apache-2.0

== Copyright
Copyright 2013 Google Inc. All Rights Reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 Intel Coporation.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2023 The Kubernetes Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
k8s.io/kube-openapi

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) MongoDB, Inc. 2017-present.
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright 2015 go-swagger maintainers
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2017 go-swagger maintainers
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2022 The Kubernetes Authors.
Copyright 2023 The Kubernetes Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
k8s.io/sample-controller

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2017 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
k8s.io/utils

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
```

```
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2013 Google Inc.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright 2022 The Kubernetes Authors.
Copyright 2023 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/json

== License Type
Files other than internal/golang/* licensed under:


                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "{}"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright {yyyy} {name of copyright owner}

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


------------------

internal/golang/* files licensed under:


Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2021 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/structured-merge-diff/v4

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2023 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/yaml

== License Type
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2014 Sam Ghods
Copyright 2013 The Go Authors. All rights reserved.

------------------------------------ Licenses
 ------------------------------------

---------------------------------- (separator)
 ----------------------------------
== SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
```

```
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
```

```
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by
 You to the Licensor shall be under the terms and conditions of this
 License, without any additional terms or conditions. Notwithstanding the
 above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may have executed with Licensor regarding such
 Contributions.
```

```
6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,
```

```
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.



---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.



---------------------------------- (separator)
 ----------------------------------
== SPDX:MPL-2.0

Mozilla Public License Version 2.0

1. Definitions

1.1. "Contributor" means each individual or legal entity that creates,
contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version" means the combination of the Contributions of
others (if any) used by a Contributor and that particular Contributor&apos;s
Contribution.

1.3. "Contribution" means Covered Software of a particular Contributor.

1.4. "Covered Software" means Source Code Form to which the initial
Contributor has attached the notice in Exhibit A, the Executable Form of
 such
Source Code Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses" means

(a) that the initial Contributor has attached the notice described in
 Exhibit
B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version
1.1 or earlier of the License, but not also under the terms of a Secondary
License.

1.6. "Executable Form" means any form of the work other than Source Code
 Form.

1.7. "Larger Work" means a work that combines Covered Software with other
material, in a separate file or files, that is not Covered Software.

1.8. "License" means this document.

1.9. "Licensable" means having the right to grant, to the maximum extent
possible, whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications" means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion
from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including
without limitation, method, process, and apparatus claims, in any patent
Licensable by such Contributor that would be infringed, but for the grant of
the License, by the making, using, selling, offering for sale, having made,
import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License,
 Version
```

```
2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero
General Public License, Version 3.0, or any later versions of those
 licenses.

1.13. "Source Code Form" means the form of the work preferred for making
modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising
rights under this License. For legal entities, "You" includes any entity
 that
controls, is controlled by, or is under common control with You. For
 purposes
of this definition, "control" means (a) the power, direct or indirect, to
cause the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available, modify,
display, perform, distribute, and otherwise exploit its Contributions,
 either
on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its Contributions or
its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become
effective for each Contribution on the date the Contributor first
 distributes
such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this
License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party&apos;s
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
 Version);
or

(c) under Patent Claims infringed by Covered Software in the absence of its
Contributions.

This License does not grant any rights in the trademarks, service marks, or
logos of any Contributor (except as may be necessary to comply with the
 notice
```

```
requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this License
(see Section 10.2) or under the terms of a Secondary License (if permitted
under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions
are its original creation(s) or it has sufficient rights to grant the rights
to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable
copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under the
terms of this License. You must inform recipients that the Source Code Form
 of
the Covered Software is governed by the terms of this License, and how they
can obtain a copy of this License. You may not attempt to alter or restrict
the recipients&apos; rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form,
 as
described in Section 3.1, and You must inform recipients of the Executable
Form how they can obtain a copy of such Source Code Form by reasonable means
in a timely manner, at a charge no more than the cost of distribution to the
recipient; and

(b) You may distribute such Executable Form under the terms of this License,
or sublicense it under different terms, provided that the license for the
Executable Form does not attempt to limit or alter the recipients&apos;
 rights
in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for the
Covered Software. If the Larger Work is a combination of Covered Software
 with
a work governed by one or more Secondary Licenses, and the Covered Software
 is
not Incompatible With Secondary Licenses, this License permits You to
additionally distribute such Covered Software under the terms of such
```

```
Secondary License(s), so that the recipient of the Larger Work may, at their
option, further distribute the Covered Software under the terms of either
 this
License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including
copyright notices, patent notices, disclaimers of warranty, or limitations
 of
liability) contained within the Source Code Form of the Covered Software,
except that You may alter any license notices to the extent required to
 remedy
known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity
or liability obligations to one or more recipients of Covered Software.
However, You may do so only on Your own behalf, and not on behalf of any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity, or liability obligation is offered by You alone, and You
hereby agree to indemnify every Contributor for any liability incurred by
 such
Contributor as a result of warranty, support, indemnity or liability terms
 You
offer. You may include additional disclaimers of warranty and limitations of
liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute, judicial
order, or regulation then You must: (a) comply with the terms of this
 License
to the maximum extent possible; and (b) describe the limitations and the
 code
they affect. Such description must be placed in a text file included with
 all
distributions of the Covered Software under this License. Except to the
 extent
prohibited by statute or regulation, such description must be sufficiently
detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
fail to comply with any of its terms. However, if You become compliant, then
the rights granted under this License from a particular Contributor are
reinstated (a) provisionally, unless and until such Contributor explicitly
 and
finally terminates Your grants, and (b) on an ongoing basis, if such
Contributor fails to notify You of the non-compliance by some reasonable
 means
prior to 60 days after You have come back into compliance. Moreover, Your
grants from a particular Contributor are reinstated on an ongoing basis if
such Contributor notifies You of the non-compliance by some reasonable
 means,
this is the first time You have received notice of non-compliance with this
License from such Contributor, and You become compliant prior to 30 days
 after
Your receipt of the notice.
```

```
5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions, counter-claims,
and cross-claims) alleging that a Contributor Version directly or indirectly
infringes any patent, then the rights granted to You by any and all
Contributors for the Covered Software under Section 2.1 of this License
 shall
terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
warranty of any kind, either expressed, implied, or statutory, including,
without limitation, warranties that the Covered Software is free of defects,
merchantable, fit for a particular purpose or non-infringing. The entire
 risk
as to the quality and performance of the Covered Software is with You.
 Should
any Covered Software prove defective in any respect, You (not any
 Contributor)
assume the cost of any necessary servicing, repair, or correction. This
disclaimer of warranty constitutes an essential part of this License. No use
of any Covered Software is authorized under this License except under this
disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
 other
commercial damages or losses, even if such party shall have been informed of
the possibility of such damages. This limitation of liability shall not
 apply
to liability for death or personal injury resulting from such party&apos;s
negligence to the extent applicable law prohibits such limitation. Some
jurisdictions do not allow the exclusion or limitation of incidental or
consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of
 a
jurisdiction where the defendant maintains its principal place of business
 and
such litigation shall be governed by laws of that jurisdiction, without
reference to its conflict-of-law provisions. Nothing in this Section shall
prevent a party&apos;s ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. Any law or regulation which provides that the language of a
contract shall be construed against the drafter shall not be used to
 construe
this License against a Contributor.
```

```
10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
 10.3,
no one other than the license steward has the right to modify or publish new
versions of this License. Each version will be given a distinguishing
 version
number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of
 the
License under which You originally received the Covered Software, or under
 the
terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create
 a
new license for such software, you may create and use a modified version of
this License if you rename the license and remove any references to the name
of the license steward (except to note that such modified license differs
 from
this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
 notice
described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by
the Mozilla Public License, v. 2.0.
```

Provider: The Legion Of The Bouncy Castle / Component(s): bc-fips 1.0.2.4

```
Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: The Legion Of The Bouncy Castle / Component(s): Bouncy Castle 1.67

```
Except where otherwise stated, this software is distributed under a license
 based on the MIT X Consortium license. The OpenPGP library also includes a
 modified BZIP2 library which is licensed under the Apache Software License,
 Version 2.0.

MIT X Consortium License:
Copyright (c) 2000 - 2020 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

************
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
```

```
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

Provider: The Legion Of The Bouncy Castle / Component(s): Bouncy Castle Crypto API 1.0.2.3 (FIPS)

```
Bouncy Castle Crypto API

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: The Legion Of The Bouncy Castle / Component(s): Bouncy Castle Crypto API bc-fips-1.0.1

```
Copyright (c) 2000 - 2019 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: The Legion Of The Bouncy Castle Inc. / Component(s): bcpkix-fips 1.0.5

```
https://www.bouncycastle.org/licence.html

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


-------------
4P Dependencies:

org.bouncycastle:bc-fips

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
```

```
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: The Legion Of The Bouncy Castle Inc. / Component(s): Bouncy Castle Crypto API 1.69

```
Copyright (c) 2000 - 2020 The Legion of the Bouncy Castle Inc.
(https://www.bouncycastle.org)
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this
software and associated documentation files (the "Software"), to deal in the
 Software
without restriction, including without limitation the rights to use, copy,
 modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software, and to
 permit persons
to whom the Software is furnished to do so, subject to the following
 conditions:
The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
 USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: The Legion Of The Bouncy Castle Inc. / Component(s): Bouncy Castle Crypto APIs for Public Key Infrastructure (PKI) bcpkix-fips 1.0.7

```



https://www.bouncycastle.org/licence.html

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


-------------
4P Dependencies:

org.bouncycastle:bc-fips:[1.0.0,2.0.0)

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: The Libseccomp Authors / Component(s): libseccomp 2.3.1

```
Place the following verbatim in the documentation:
“You are receiving a copy of the (identify the LGPL code_________________)
 in both source and object code in the following JAR (identify the
 JAR___________). The terms of the Oracle license do NOT apply to the
 (identify the LGPL code_________________) program; it is licensed under the
 following license, separately from the Oracle programs you receive. If you
 do not wish to install this program, you may (development to provide brief
 instruction on how not to install_____________________________).

                  GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]
```

```
                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
```

```
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
```

```
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
```

```
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
```

```
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
```

```
  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
```

```
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
```

Provider: The MIT License (MIT) / Component(s): component-cljs 0.2.4

```
The MIT License (MIT)

Copyright © 2013 Stuart Sierra

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
cljx
Copyright (c) 2012, Kevin Lynagh
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
* The name Kevin Lynagh may not be used to endorse or promote products
derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL KEVIN LYNAGH BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Regex 1.1.0
Copyright © 2010-2013 Christophe Grand
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
```

```
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
```

```
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
```

```
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Watchtower 0.1.1Copyright (C) 2011 Chris Granger
Distributed under the Eclipse Public License, the same as Clojure.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
```

```
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
```

```
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
```

```
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Parsley 0.9.1
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
```

```
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
```

```
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
```

```
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Sjacket
All rights reserved. The use and distribution terms for this software are
 covered by the Eclipse Public License 1.0 (http://opensource.org/licenses/
eclipse-1.0.php) which can be found in the file epl-v10.html at the root of
 this distribution. By using this software in any fashion, you are agreeing
 to be bound by the terms of this license. You must not remove this notice,
 or any other, from this software.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
```

```
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
```

```
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Dependency-cljs 0.1.4
Copyright (c) Stuart Sierra, 2013. All rights reserved. The use and
 distribution terms for this software are covered by the Eclipse Public
 License 1.0 (http://opensource.org/licenses/eclipse-1.0.php) which can be
 found in the file epl-v10.html at the root of this distribution. By using
 this software in any fashion, you are agreeing to be bound by the terms
```

```
 of this license. You must not remove this notice, or any other, from this
 software.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
```

```
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
```

```
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: The MIT License (MIT) / Component(s): httpsig 1.1.2

```
Copyright (c) 2014 Adam Knight
Copyright (c) 2012 Adam T. Lindsay (original author)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: The MIT License (MIT) / Component(s): midje 1.6.3

```
+Copyright (c) 2010-2013 Brian Marick
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation

The MIT License (MIT)
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
Colorize 0.1.1
Copyright (C) 2011 Chris Granger
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
```

```
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
```

```
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
```

```
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Dynapath 0.2.0
Copyright © 2012-2016 Tobias Crawley
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
```

```
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
```

```
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
```

```
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Ordered 1.2.0
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
```

```
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
```

```
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Core.unify 0.5.2
Copyright (c) Rich Hickey and Michael Fogus, 2012. All rights reserved.
The use and distribution terms for this software are covered by the Eclipse
 Public License 1.0 (http://opensource.org/licenses/eclipse-1.0.php) which
 can be found in the file epl-v10.html at the root of this distribution.
 By using this software in any fashion, you are agreeing to be bound bythe
 terms of this license. You must not remove this notice, or any other, from
 this software.
```

```
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
```

```
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
```

```
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Gui-diff 0.5.0
Copyright (C) 2011 Free Software Foundation, Inc
MIT License
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
Tools.macro 0.1.5
Copyright (c) 2011 Rich Hickey
All rights reserved. The use and distribution terms for this software are
 covered by the Eclipse Public License 1.0 (http://opensource.org/licenses/
eclipse-1.0.php) which can be found in the file epl-v10.html at the root of
 this distribution. By using this software in any fashion, you are agreeing
 to be bound bythe terms of this license. You must not remove this notice,
 or any other, from this software.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
```

```
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
```

```
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Math.combinatorics 0.0.7
The use and distribution terms for this software are covered by the Eclipse
 Public License 1.0, which can be found in the file epl-v10.html at the
 root of this distribution. By using this software in any fashion, you are
 agreeing to be bound by the terms of this license. You must not remove this
 notice, or any other, from this software.
Eclipse Public License - v 1.0
```

```
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
```

```
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
```

```
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Utilize 0.2.3
MIT License
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
Tools.namespace 0.2.4
```

```
Copyright © 2012 Stuart Sierra
All rights reserved. The use and distribution terms for this software are
 covered by the Eclipse Public License 1.0 which can be found in the file
 epl-v10.html at the root of this distribution. By using this software in
 any fashion, you are agreeing to be bound by the terms of this license. You
 must not remove this notice, or any other, from this software.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
```

```
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
```

```
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
Swiss-arrows 1.0.0
Copyright (C) 2012 Robert P. Levy
Distributed under the Eclipse Public License, the same as Clojure.
Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
1. DEFINITIONS
"Contribution" means:
a) in the case of the initial Contributor, the initial code and
 documentation distributed under this Agreement, and
```

```
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;
where such changes and/or additions to the Program originate from and are
 distributed by that particular Contributor. A Contribution 'originates'
 from a Contributor if it was added to the Program by such Contributor
 itself or anyone acting on such Contributor's behalf. Contributions do
 not include additions to the Program which: (i) are separate modules
 of software distributed in conjunction with the Program under their own
 license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.
"Licensed Patents" mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.
"Program" means the Contributions distributed in accordance with this
 Agreement.
"Recipient" means anyone who receives the Program under this Agreement,
 including all Contributors.
2. GRANT OF RIGHTS
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare derivative works of, publicly display, publicly perform,
 distribute and sublicense the Contribution of such Contributor, if any, and
 such derivative works, in source code and object code form.
b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in source code and
 object code form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.
c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.
d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.
3. REQUIREMENTS
A Contributor may choose to distribute the Program in object code form under
 its own license agreement, provided that:
a) it complies with the terms and conditions of this Agreement; and
b) its license agreement:
i) effectively disclaims on behalf of all Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all Contributors all liability for
 damages, including direct, indirect, special, incidental and consequential
 damages, such as lost profits;
iii) states that any provisions which differ from this Agreement are offered
 by that Contributor alone and not by any other party; and
```

```
iv) states that source code for the Program is available from such
 Contributor, and informs licensees how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange.
When the Program is made available in source code form:
a) it must be made available under this Agreement; and
b) a copy of this Agreement must be included with each copy of the Program.
Contributors may not remove or alter any copyright notices contained within
 the Program.
Each Contributor must identify itself as the originator of its Contribution,
 if any, in a manner that reasonably allows subsequent Recipients to
 identify the originator of the Contribution.
4. COMMERCIAL DISTRIBUTION
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.
For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.
5. NO WARRANTY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED
 ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER
 EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR
 CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE. Each Recipient is solely responsible for determining
 the appropriateness of using and distributing the Program and assumes
 all risks associated with its exercise of rights under this Agreement ,
 including but not limited to the risks and costs of program errors,
 compliance with applicable laws, damage to or loss of data, programs or
 equipment, and unavailability or interruption of operations.
6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR
 ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT
 LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
 OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM
 OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGES.
7. GENERAL
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
```

```
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.
If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.
All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.
Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to distribute
 the Program (including its Contributions) under the new version. Except
 as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no
 rights or licenses to the intellectual property of any Contributor under
 this Agreement, whether expressly, by implication, estoppel or otherwise.
 All rights in the Program not expressly granted under this Agreement are
 reserved.
This Agreement is governed by the laws of the State of New York and the
 intellectual property laws of the United States of America. No party to
 this Agreement will bring a legal action under this Agreement more than
 one year after the cause of action arose. Each party waives its rights to a
 jury trial in any resulting litigation.
```

Provider: The MIT License (MIT) / Component(s): reagent 0.6.0-alpha

```
MIT License
Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: The MIT License (MIT) / Component(s): urllib3 1.16

```
The MIT License (MIT)
Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>


## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.
```

```
* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weißschuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-
team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module
```

```
* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix
```

```
* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
  * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
  * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skyttä <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling
 concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-
length received.
```

Provider: The MIT License (MIT) / Component(s): urllib3 1.18.1

```
The MIT License (MIT)
Copyright (c)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>


## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weißschuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
```

```
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-
team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs
```

```
* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
  * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
  * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
```

```
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skyttä <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling
 concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-
length received.
```

Provider: The MyBatis Team / Component(s): MyBatis Dynamic SQL 1.5.0

```
MyBatis Dynamic Sql
Copyright 2016-2023

This product includes software developed by
The MyBatis Team (https://www.mybatis.org/).

For testing purposes only, this product includes the Animals2 dataset from
https://vincentarelbundock.github.io/Rdatasets/datasets.html

 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: The Netty Project / Component(s): netty 4.1.100.Final

```
io.netty:netty-common:4.1.100.Final
io.netty:netty-resolver:4.1.100.Final
io.netty:netty-transport:4.1.100.Final
io.netty:netty-codec:4.1.100.Final
io.netty:netty-buffer:4.1.100.Final
io.netty:netty-handler:4.1.100.Final
io.netty:netty-transport-native-unix-common:4.1.100.Final
io.netty:netty-codec-http:4.1.100.Final
io.netty:netty-codec-http2:4.1.100.Final
Netty (io.netty:netty-*)
--------------------------------------------
                                 Apache License
                           Version 2.0, January 2004
                        https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.



------------------------------- Copyright notices --------------------------

                            The Netty Project
                            =================

Please visit the Netty web site for more information:

  * https://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
```

```
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.

  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

--------------------------------------------------------------------------------
This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuate of all present
```

```
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.

  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

--------------------------------------------------------------------------------
This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
(BSD License: https://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.

* Neither the name of the Webbit nor the names of
  its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

--------------------------------------------------------------------------------
This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:
```

```
  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
/*
 * Copyright (c) 2004-2007 QOS.ch
 * All rights reserved.
 *
 * Permission is hereby granted, free  of charge, to any person obtaining
 * a  copy  of this  software  and  associated  documentation files  (the
 * "Software"), to  deal in  the Software without  restriction, including
 * without limitation  the rights to  use, copy, modify,  merge, publish,
 * distribute,  sublicense, and/or sell  copies of  the Software,  and to
 * permit persons to whom the Software  is furnished to do so, subject to
 * the following conditions:
 *
 * The  above  copyright  notice  and  this permission  notice  shall  be
 * included in all copies or substantial portions of the Software.
 *
 * THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 * EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 * MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 * LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 * OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 * WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */

  * HOMEPAGE:
    * https://www.slf4j.org/

--------------------------------------------------------------------------------
This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/

--------------------------------------------------------------------------------
This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2
 Project

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

--------------------------------------------------------------------------------
This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

--------------------------------------------------------------------------------
This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
Apache License 2.0 here -- see top
```

```
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

--------------------------------------------------------------------------------
This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights
 reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
 distribution.

  3. The names of the authors may not be used to endorse or promote products
     derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

--------------------------------------------------------------------------------
This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
 under
the License.

  * HOMEPAGE:
```

```
    * https://github.com/ning/compress

--------------------------------------------------------------------------------
This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java

--------------------------------------------------------------------------------
This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://github.com/jponge/lzma-java

--------------------------------------------------------------------------------
This product optionally depends on 'zstd-jni', a zstd-jni Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.zstd-jni.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://github.com/luben/zstd-jni

--------------------------------------------------------------------------------
This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
```

```
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

--------------------------------------------------------------------------------
This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc.  All rights reserved.
https://developers.google.com/protocol-buffers/

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

  * HOMEPAGE:
    * https://github.com/google/protobuf

--------------------------------------------------------------------------------
This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
                          (https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

  * HOMEPAGE:
    * https://www.bouncycastle.org/

--------------------------------------------------------------------------------
This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

  * HOMEPAGE:
    * https://github.com/google/snappy

--------------------------------------------------------------------------------
This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:
```

```
  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling

--------------------------------------------------------------------------------
This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://github.com/google/caliper

--------------------------------------------------------------------------------
This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://commons.apache.org/logging/

--------------------------------------------------------------------------------
This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://logging.apache.org/log4j/

--------------------------------------------------------------------------------
This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
This copy of Aalto XML processor is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

https://www.apache.org/licenses/

A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases,
that file should be located next to this file: in source distribution
the location should be "release-notes/asl"; and in jar "META-INF/"

  * HOMEPAGE:
    * https://wiki.fasterxml.com/AaltoHome
```

```
--------------------------------------------------------------------------------
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://github.com/twitter/hpack

--------------------------------------------------------------------------------
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/

--------------------------------------------------------------------------------
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:

  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
```

```
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/

--------------------------------------------------------------------------------
This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/

--------------------------------------------------------------------------------
This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper

--------------------------------------------------------------------------------
This product contains the dnsinfo.h header file, that provides a way to
 retrieve the system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
/*
 * Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.
 *
 * @APPLE_LICENSE_HEADER_START@
 *
 * This file contains Original Code and/or Modifications of Original Code
 * as defined in and that are subject to the Apple Public Source License
 * Version 2.0 (the 'License'). You may not use this file except in
 * compliance with the License. Please obtain a copy of the License at
 * https://www.opensource.apple.com/apsl/ and read it before using this
 * file.
 *
 * The Original Code and all software distributed under the License are
 * distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
 * EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
```

```
 * INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
 * Please see the License for the specific language governing rights and
 * limitations under the License.
 *
 * @APPLE_LICENSE_HEADER_END@
 */

  * HOMEPAGE:
    * https://www.opensource.apple.com/source/configd/configd-453.19/
dnsinfo/dnsinfo.h

--------------------------------------------------------------------------------
This product optionally depends on 'Brotli4j', Brotli compression and
decompression for Java., which can be obtained at:

  * LICENSE:
    * license/LICENSE.brotli4j.txt (Apache License 2.0)
Apache License 2.0 here -- see top

  * HOMEPAGE:
    * https://github.com/hyperxpro/Brotli4j
```

Provider: The Netty Project / Component(s): netty 4.1.35.Final

```
io.netty 4.1.35.Final
COPYRIGHT: Copyright 2014 The Netty Project
LICENSE: Apache 2.0

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
```

```
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
```

```
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



*************************
Modules:
*************************
all
dev-tools
common
buffer
codec
codec-dns
codec-haproxy
codec-http
codec-http2
codec-memcache
codec-mqtt
codec-redis
codec-smtp
codec-socks
codec-stomp
codec-xml
resolver
resolver-dns
tarball
transport
transport-native-unix-common-tests
transport-native-unix-common
transport-native-epoll
transport-native-kqueue
transport-rxtx
transport-sctp
transport-udt
handler
handler-proxy
example
testsuite
testsuite-autobahn
testsuite-http2
testsuite-osgi
testsuite-shading
microbench
bom


*************************
Notice File:
*************************
```

```
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

* LICENSE:
* license/LICENSE.jsr166y.txt (Public Domain)

Sources for all classes originated by the JSR166 group are released to
 the public domain, as described at http://creativecommons.org/licenses/
publicdomain.

* HOMEPAGE:
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
* http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/jsr166/


===
This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

* LICENSE:
* license/LICENSE.base64.txt (Public Domain)

This is a Public Domain Java class providing very fast Base64 encoding and
 decoding in the form of convenience methods and input/output streams.

* HOMEPAGE:
* http://iharder.sourceforge.net/current/java/base64/


===
This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

* LICENSE:
* license/LICENSE.webbit.txt (BSD License)

(BSD License: http://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes and contributors
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above
copyright notice, this list of conditions and the
following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the
following disclaimer in the documentation and/or other
materials provided with the distribution.

* Neither the name of the Webbit nor the names of
its contributors may be used to endorse or promote products
derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
```

```
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

* HOMEPAGE:
* https://github.com/joewalnes/webbit

===
This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

* LICENSE:
* license/LICENSE.slf4j.txt (MIT License)

Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

* HOMEPAGE:
* http://www.slf4j.org/


===
This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

* NOTICE:
* license/NOTICE.harmony.txt
* LICENSE:
* license/LICENSE.harmony.txt (Apache License 2.0)
* HOMEPAGE:
* http://archive.apache.org/dist/harmony/


===
This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:
```

```
* LICENSE:
* license/LICENSE.jbzip2.txt (MIT License)

Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2
 Project

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


* HOMEPAGE:
* https://code.google.com/p/jbzip2/


===
This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

* LICENSE:
* license/LICENSE.libdivsufsort.txt (MIT License)

The MIT License (MIT)

Copyright (c) 2003 Yuta Mori All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


* HOMEPAGE:
* https://github.com/y-256/libdivsufsort

===
This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
which can be obtained at:

* LICENSE:
* license/LICENSE.jctools.txt (ASL2 License)

https://github.com/JCTools/JCTools/blob/master/LICENSE

* HOMEPAGE:
* https://github.com/JCTools/JCTools

===
This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

* LICENSE:
* license/LICENSE.jfastlz.txt (MIT License)

The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.


* HOMEPAGE:
* https://code.google.com/p/jfastlz/


===
This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:
```

```
* LICENSE:
* license/LICENSE.protobuf.txt (New BSD License)

Copyright 2008 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it. This code is not
standalone and requires a support library to be linked with it. This
support library is itself covered by the above license.


* HOMEPAGE:
* https://github.com/google/protobuf


===
This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

* LICENSE:
* license/LICENSE.hpack.txt (Apache License 2.0)

https://github.com/twitter/hpack/blob/master/LICENSE

* HOMEPAGE:
* https://github.com/twitter/hpack



This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

* LICENSE:
* license/LICENSE.commons-lang.txt (Apache License 2.0)

COPYRIGHT: Copyright 2001-2018 The Apache Software Foundation
```

```
LICENSE: Apache 2.0 https://github.com/apache/commons-lang/blob/master/
LICENSE.txt

* HOMEPAGE:
* https://commons.apache.org/proper/commons-lang/


This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

* LICENSE:
* license/LICENSE.mvn-wrapper.txt (Apache License 2.0)

https://github.com/takari/maven-wrapper/blob/master/LICENSE.txt

* HOMEPAGE:
* https://github.com/takari/maven-wrapper



*************************
4P Dependencies (POM):
*************************


com.fasterxml » aalto-xml
COPYRIGHT: Copyright 2012 FasterXML.com
LICENSE:

This copy of Aalto XML processor is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/

A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases,
that file should be located next to this file: in source distribution
the location should be "release-notes/asl"; and in jar "META-INF/"

===
org.apache.felix » org.apache.felix.configadmin
COPYRIGHT: (C) Apache Software Foundation
LICENSE: http://www.apache.org/licenses/LICENSE-2.0
NOTICE:

I. Included Third-Party Software

This product includes software developed at The OSGi Alliance (http://
www.osgi.org/).
Copyright (c) OSGi Alliance (2000, 2012). Licensed under the Apache License
 2.0.

II. Used Third-Party Software
This product uses software developed at The OSGi Alliance (http://
www.osgi.org/).
Copyright (c) OSGi Alliance (2000, 2012). Licensed under the Apache License
 2.0.
```

```
This product uses software developed at The Codehaus (http://
www.codehaus.org)
Licensed under the Apache License 2.0. This product uses software developed
 at
Open Participation Software for Java (http://www.ops4j.org)
Licensed under the Apache License 2.0.
===
org.rxtx » rxtx
COPYRIGHT: Copyright 1997-2007 by Trent Jarvi tjarvi@qbang.org

LICENSE: GNU GLPL v2.1

RXTX License v 2.1 - LGPL v 2.1 + Linking Over Controlled Interface.
RXTX is a native interface to serial ports in java.


he original GNU Lesser General Public License Follows.


GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
```

```
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
```

```
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.
```

```
d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
```

```
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
```

```
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.
```

```
10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
```

```
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS



===
com.barchart.udt » barchart-udt-bundle
COPYRIGHT:
Copyright (C) 2009-2013 Barchart, Inc.

LICENSE: All rights reserved. Licensed under the OSI BSD License.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



===
```

```
com.google.protobuf » protobuf-java
COPYRIGHT and LICENSE:
Copyright 2008 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it. This code is not
standalone and requires a support library to be linked with it. This
support library is itself covered by the above license.




===
com.yammer.metrics » metrics-core
COPYRIGHT: Copyright 2010-2012 Coda Hale and Yammer, Inc.
LICENSE: Apache 2.0 https://github.com/infusionsoft/yammer-metrics/blob/
v2.2.0/LICENSE

NOTICE:
This product includes code derived from the JSR-166 project
 (ThreadLocalRandom), which was released
with the following comments:
Written by Doug Lea with assistance from members of JCP JSR-166
Expert Group and released to the public domain, as explained at
http://creativecommons.org/publicdomain/zero/1.0/

===
CC0 1.0 Universal
Official translations of this legal tool are available in other languages.

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL
 SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-CLIENT
 RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS"
 BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS
 DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS
 LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE
 INFORMATION OR WORKS PROVIDED HEREUNDER.
```

```
Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
 exclusive Copyright and Related Rights (defined below) upon the creator
 and subsequent owner(s) (each and all, an "owner") of an original work of
 authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the
 purpose of contributing to a commons of creative, cultural and scientific
 works ("Commons") that the public can reliably and without fear of later
 claims of infringement build upon, modify, incorporate in other works,
 reuse and redistribute as freely as possible in any form whatsoever and
 for any purposes, including without limitation commercial purposes. These
 owners may contribute to the Commons to promote the ideal of a free culture
 and the further production of creative, cultural and scientific works, or
 to gain reputation or greater distribution for their Work in part through
 the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation
 of additional consideration or compensation, the person associating CC0
 with a Work (the "Affirmer"), to the extent that he or she is an owner
 of Copyright and Related Rights in the Work, voluntarily elects to apply
 CC0 to the Work and publicly distribute the Work under its terms, with
 knowledge of his or her Copyright and Related Rights in the Work and the
 meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
 protected by copyright and related or neighboring rights ("Copyright and
 Related Rights"). Copyright and Related Rights include, but are not limited
 to, the following:

the right to reproduce, adapt, distribute, perform, display, communicate,
 and translate a Work;
moral rights retained by the original author(s) and/or performer(s);
publicity and privacy rights pertaining to a person's image or likeness
 depicted in a Work;
rights protecting against unfair competition in regards to a Work, subject
 to the limitations in paragraph 4(a), below;
rights protecting the extraction, dissemination, use and reuse of data in a
 Work;
database rights (such as those arising under Directive 96/9/EC of the
 European Parliament and of the Council of 11 March 1996 on the legal
 protection of databases, and under any national implementation thereof,
 including any amended or successor version of such directive); and
other similar, equivalent or corresponding rights throughout the world based
 on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of,
 applicable law, Affirmer hereby overtly, fully, permanently, irrevocably
 and unconditionally waives, abandons, and surrenders all of Affirmer's
 Copyright and Related Rights and associated claims and causes of action,
 whether now known or unknown (including existing as well as future claims
 and causes of action), in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "Waiver").
 Affirmer makes the Waiver for the benefit of each member of the public
 at large and to the detriment of Affirmer's heirs and successors, fully
 intending that such Waiver shall not be subject to revocation, rescission,
 cancellation, termination, or any other legal or equitable action to
 disrupt the quiet enjoyment of the Work by the public as contemplated by
 Affirmer's express Statement of Purpose.
```

```
3. Public License Fallback. Should any part of the Waiver for any reason
 be judged legally invalid or ineffective under applicable law, then the
 Waiver shall be preserved to the maximum extent permitted taking into
 account Affirmer's express Statement of Purpose. In addition, to the
 extent the Waiver is so judged Affirmer hereby grants to each affected
 person a royalty-free, non transferable, non sublicensable, non exclusive,
 irrevocable and unconditional license to exercise Affirmer's Copyright
 and Related Rights in the Work (i) in all territories worldwide, (ii)
 for the maximum duration provided by applicable law or treaty (including
 future time extensions), (iii) in any current or future medium and for any
 number of copies, and (iv) for any purpose whatsoever, including without
 limitation commercial, advertising or promotional purposes (the "License").
 The License shall be deemed effective as of the date CC0 was applied by
 Affirmer to the Work. Should any part of the License for any reason be
 judged legally invalid or ineffective under applicable law, such partial
 invalidity or ineffectiveness shall not invalidate the remainder of the
 License, and in such case Affirmer hereby affirms that he or she will
 not (i) exercise any of his or her remaining Copyright and Related Rights
 in the Work or (ii) assert any associated claims and causes of action
 with respect to the Work, in either case contrary to Affirmer's express
 Statement of Purpose.

4. Limitations and Disclaimers.

No trademark or patent rights held by Affirmer are waived, abandoned,
 surrendered, licensed or otherwise affected by this document.
Affirmer offers the Work as-is and makes no representations or warranties
 of any kind concerning the Work, express, implied, statutory or otherwise,
 including without limitation warranties of title, merchantability, fitness
 for a particular purpose, non infringement, or the absence of latent or
 other defects, accuracy, or the present or absence of errors, whether or
 not discoverable, all to the greatest extent permissible under applicable
 law.
Affirmer disclaims responsibility for clearing rights of other persons that
 may apply to the Work or any use thereof, including without limitation
 any person's Copyright and Related Rights in the Work. Further, Affirmer
 disclaims responsibility for obtaining any necessary consents, permissions
 or other rights required for any use of the Work.
Affirmer understands and acknowledges that Creative Commons is not a party
 to this document and has no duty or obligation with respect to this CC0 or
 use of the Work.
===
org.bouncycastle » bcpkix-jdk15on
org.bouncycastle » bcprov-jdk15on
COPYRIGHT and LICENSE:
License

Copyright (c) 2000 - 2019 The Legion of the Bouncy Castle Inc. (https://
www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
```

```
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.



===
org.conscrypt » conscrypt-openjdk-uber
COPYRIGHT: Copyright 2016 The Android Open Source Project
LICENSE: Apache 2.0 https://github.com/google/conscrypt/blob/1.3.0/LICENSE

--------------------------------------------------------------------------
This product contains a modified portion of `Netty`, a configurable network
stack in Java, which can be obtained at:

* LICENSE:
* licenses/LICENSE.netty.txt (Apache License 2.0)
* HOMEPAGE:
* http://netty.io/

This product contains a modified portion of `Apache Harmony`, modular Java
 runtime,
which can be obtained at:

* LICENSE:
* licenses/LICENSE.harmony.txt (Apache License 2.0)
* HOMEPAGE:
* https://harmony.apache.org/


===
org.tukaani » xz
COPYRIGHT and LICENSE:
The most interesting parts of XZ Utils (e.g. liblzma) are in the public
 domain. You can do whatever you want with the public domain parts.

Some parts of XZ Utils (e.g. build system and some utilities) are under
 different free software licenses such as GNU LGPLv2.1, GNU GPLv2, or GNU
 GPLv3.

See the file COPYING for more details.

XZ Utils Licensing
3 ==================
4
5 Different licenses apply to different files in this package. Here
6 is a rough summary of which licenses apply to which parts of this
7 package (but check the individual files to be sure!):
8
9 - liblzma is in the public domain.
10
11 - xz, xzdec, and lzmadec command line tools are in the public
12 domain unless GNU getopt_long had to be compiled and linked
13 in from the lib directory. The getopt_long code is under
14 GNU LGPLv2.1+.
15
16 - The scripts to grep, diff, and view compressed files have been
17 adapted from gzip. These scripts and their documentation are
18 under GNU GPLv2+.
19
20 - All the documentation in the doc directory and most of the
21 XZ Utils specific documentation files in other directories
22 are in the public domain.
23
```

```
- Translated messages are in the public domain.

- The build system contains public domain files, and files that
are under GNU GPLv2+ or GNU GPLv3+. None of these files end up
in the binaries being built.

- Test files and test code in the tests directory, and debugging
utilities in the debug directory are in the public domain.

- The extra directory may contain public domain files, and files
that are under various free software licenses.

You can do whatever you want with the files that have been put into
the public domain. If you find public domain legally problematic,
take the previous sentence as a license grant. If you still find
the lack of copyright legally problematic, you have too many
lawyers.

As usual, this software is provided "as is", without any warranty.

If you copy significant amounts of public domain code from XZ Utils
into your project, acknowledging this somewhere in your software is
polite (especially if it is proprietary, non-free software), but
naturally it is not legally required. Here is an example of a good
notice to put into "about box" or into documentation:

This software includes code from XZ Utils .

The following license texts are included in the following files:
- COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1
- COPYING.GPLv2: GNU General Public License version 2
- COPYING.GPLv3: GNU General Public License version 3

Note that the toolchain (compiler, linker etc.) may add some code
pieces that are copyrighted. Thus, it is possible that e.g. liblzma
binary wouldn't actually be in the public domain in its entirety
even though it contains no copyrighted code from the XZ Utils source
package.

If you have questions, don't hesitate to ask the author(s) for more
information.

===
org.agrona » Agrona
COPYRIGHT:
* Copyright 2018 Gil Tene
* Copyright 2014-2019 Real Logic Ltd.
LICENSE: Apache 2.0 https://github.com/real-logic/agrona/blob/0.5.1/LICENSE
```

Provider: The Netty Project / Component(s): netty 4.1.66.Final

```
Netty (io.netty:netty-*)
  Copyright 2012,2021 The Netty Project
  Copyright 2014 Twitter, Inc.
  Copyright (c) 2011, Joe Walnes and contributors
  Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>
  Copyright (c) 2004-2011 QOS.ch
---------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
```

```
                         https://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
```

```
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
---------------------------------------------

                            The Netty Project
                            =================

Please visit the Netty web site for more information:

  * https://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

  https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of
 the
components that this product depends on.

-------------------------------------------------------------------------------
This product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

  * LICENSE:
    * license/LICENSE.jsr166y.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
```

```
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
    * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/
jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

  * LICENSE:
    * license/LICENSE.base64.txt (Public Domain)
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates
 whatever
copyright the dedicators holds in the work of authorship identified below
 (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of
 this
work. Certifier recognizes that his good faith efforts may not shield him
 from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and
 to
the detriment of the Dedicator's heirs and successors. Dedicator intends
 this
dedication to be an overt act of relinquishment in perpetuity of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
  * HOMEPAGE:
    * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

  * LICENSE:
    * license/LICENSE.webbit.txt (BSD License)
(BSD License: https://www.opensource.org/licenses/bsd-license)

Copyright (c) 2011, Joe Walnes, Aslak Hellesøy and contributors
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the
  following disclaimer in the documentation and/or other
  materials provided with the distribution.

* Neither the name of the Webbit nor the names of
  its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging
facade for Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.slf4j.txt (MIT License)
/*
 * Copyright (c) 2004-2007 QOS.ch
 * All rights reserved.
 *
 * Permission is hereby granted, free  of charge, to any person obtaining
 * a  copy  of this  software  and  associated  documentation files  (the
 * "Software"), to  deal in  the Software without  restriction, including
 * without limitation  the rights to  use, copy, modify,  merge, publish,
 * distribute,  sublicense, and/or sell  copies of  the Software,  and to
 * permit persons to whom the Software  is furnished to do so, subject to
 * the following conditions:
 *
 * The  above  copyright  notice  and  this permission  notice  shall  be
 * included in all copies or substantial portions of the Software.
 *
 * THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
 * EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
 * MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
 * NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 * LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
 * OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
 * WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
 */
  * HOMEPAGE:
    * https://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

  * NOTICE:
    * license/NOTICE.harmony.txt
Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
  * LICENSE:
    * license/LICENSE.harmony.txt (Apache License 2.0)

  * HOMEPAGE:
    * https://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2
 compression
and decompression library written by Matthew J. Francis. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.jbzip2.txt (MIT License)
Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2
 Project

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library
 to construct
the suffix array and the Burrows-Wheeler transformed string for any input
 string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

  * LICENSE:
    * license/LICENSE.libdivsufsort.txt (MIT License)
Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person
```

```
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java
 Concurrency Tools for the JVM,
 which can be obtained at:

  * LICENSE:
    * license/LICENSE.jctools.txt (ASL2 License)
  * HOMEPAGE:
    * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jzlib.txt (BSD style License)
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights
 reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
 distribution.

  3. The names of the authors may not be used to endorse or promote products
     derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
  * HOMEPAGE:
    * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for
 encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained
 at:

  * LICENSE:
    * license/LICENSE.compress-lzf.txt (Apache License 2.0)
Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy
 of
the License at https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
 under
the License.
  * HOMEPAGE:
    * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

  * LICENSE:
    * license/LICENSE.lz4.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

  * LICENSE:
    * license/LICENSE.lzma-java.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ
 compression
and decompression library written by William Kinney. It can be obtained at:

  * LICENSE:
    * license/LICENSE.jfastlz.txt (MIT License)
The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on
 'Protocol Buffers', Google's data
interchange format, which can be obtained at:

  * LICENSE:
    * license/LICENSE.protobuf.txt (New BSD License)
Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc.  All rights reserved.
https://developers.google.com/protocol-buffers/

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
  * HOMEPAGE:
    * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality.  It can be obtained at:

  * LICENSE:
    * license/LICENSE.bouncycastle.txt (MIT License)
The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
                          (https://www.bouncycastle.org)
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

  * LICENSE:
    * license/LICENSE.snappy.txt (New BSD License)
Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
  * HOMEPAGE:
    * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java
serialization API, which can be obtained at:

  * LICENSE:
    * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
```

```
  * HOMEPAGE:
    * https://github.com/jboss-remoting/jboss-marshalling

This product optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.caliper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

  * LICENSE:
    * license/LICENSE.commons-logging.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework,
 which
can be obtained at:

  * LICENSE:
    * license/LICENSE.log4j.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

  * LICENSE:
    * license/LICENSE.aalto-xml.txt (Apache License 2.0)
This copy of Aalto XML processor is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

https://www.apache.org/licenses/

A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases,
that file should be located next to this file: in source distribution
the location should be "release-notes/asl"; and in jar "META-INF/"
  * HOMEPAGE:
    * http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hpack.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/twitter/hpack

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

  * LICENSE:
    * license/LICENSE.hyper-hpack.txt (MIT License)
```

```
The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/python-hyper/hpack/

This product contains a modified version of 'HPACK', a Java implementation
 of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be
 obtained at:

  * LICENSE:
    * license/LICENSE.nghttp2-hpack.txt (MIT License)
The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
  * HOMEPAGE:
    * https://github.com/nghttp2/nghttp2/

This product contains a modified portion of 'Apache Commons Lang', a Java
 library
provides utilities for the java.lang API, which can be obtained at:

  * LICENSE:
```

```
    * license/LICENSE.commons-lang.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://commons.apache.org/proper/commons-lang/


This product contains the Maven wrapper scripts from 'Maven Wrapper', that
 provides an easy way to ensure a user has everything necessary to run the
 Maven build.

  * LICENSE:
    * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
  * HOMEPAGE:
    * https://github.com/takari/maven-wrapper

This product contains the dnsinfo.h header file, that provides a way to
 retrieve the system DNS configuration on MacOS.
This private header is also used by Apple's open source
 mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

 * LICENSE:
    * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
/*
 * Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.
 *
 * @APPLE_LICENSE_HEADER_START@
 *
 * This file contains Original Code and/or Modifications of Original Code
 * as defined in and that are subject to the Apple Public Source License
 * Version 2.0 (the 'License'). You may not use this file except in
 * compliance with the License. Please obtain a copy of the License at
 * https://www.opensource.apple.com/apsl/ and read it before using this
 * file.
 *
 * The Original Code and all software distributed under the License are
 * distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
 * EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
 * INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
 * Please see the License for the specific language governing rights and
 * limitations under the License.
 *
 * @APPLE_LICENSE_HEADER_END@
 */
  * HOMEPAGE:
    * https://www.opensource.apple.com/source/configd/configd-453.19/
dnsinfo/dnsinfo.h
```

Provider: The Opencontainers Maintainers / Component(s): image-spec 1.0.0

```
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.
```

```
"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
```

```
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.
```

```
7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2016 The Linux Foundation.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: The Pallets Team / Component(s): click 6.7

```
Copyright (c) 2014 by Armin Ronacher.

Click uses parts of optparse written by Gregory P. Ward and maintained by
 the
Python software foundation. This is limited to code in the parser.py
module:

Copyright (c) 2001-2006 Gregory P. Ward. All rights reserved.
Copyright (c) 2002-2006 Python Software Foundation. All rights reserved.
```

```
Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* The names of the contributors may not be used to endorse or
promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Pallets Team / Component(s): click 8.1.7

```
Copyright 2014 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Pallets Team / Component(s): Flask 1.0.2

```
Flask 1.0.2

COPYRIGHT and LICENSE:
Copyright © 2010 by the Pallets team.

Some rights reserved.

Redistribution and use in source and binary forms of the software as
well as documentation, with or without modification, are permitted
provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.



========================
4P Dependencies:


Werkzeug 0.14.1
COPYRIGHT and LICENSE:
Copyright © 2007 by the Pallets team.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.
```

```
THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.



------
Jinja2 2.10
COPYRIGHT and LICENSE:
Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
MarkupSafe 0.23
COPYRIGHT and LICENSE:
Copyright (c) 2010 by Armin Ronacher and contributors.  See AUTHORS
for more details.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well
as documentation, with or without modification, are permitted provided
that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.



---
itsdangerous 0.24
COPYRIGHT and LICENSE:
Copyright (c) 2011 by Armin Ronacher and the Django Software Foundation.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
```

```
click 7.0
COPYRIGHT and LICENSE:


Copyright © 2014 by the Pallets team.

Some rights reserved.

Redistribution and use in source and binary forms of the software as well as
 documentation, with or without modification, are permitted provided that
 the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
 BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE
 AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Click uses parts of optparse written by Gregory P. Ward and maintained by
 the Python Software Foundation. This is limited to code in parser.py.

Copyright © 2001-2006 Gregory P. Ward. All rights reserved. Copyright ©
 2002-2006 Python Software Foundation. All rights reserved.
```

Provider: The pip developers / Component(s): pip 21.1.1

```
Copyright (c) 2008-2021 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
Dependency: appdirs 1.4.4
License: MIT
License: [2]
Copyright: [3]
Dependency: cachecontrol 0.12.6
License: Apache 2.0
License: [4]
Copyright: [5]
Dependency: certifi 2020.12.05
License:  Mozilla Public License 2.0
License: [6]
Copyright: [7]
Dependency: colorama 0.4.4
License: BSD 3-Clause
License: [8]
Copyright: [9]
Dependency: distlib 0.3.1
License: Python Software Foundation V2
Python license
License: [10]
Copyright: [11]
Dependency: distro 1.5.0
License: Apache 2.0
License: [12]
Copyright: [13]
Dependency: html5lib 1.1
License: MIT
License: [14]
Copyright: [15]
Dependency: six 1.15.0
License: MIT
License: [16]
Copyright: [17]
Dependency: packaging 20.9
License: Apache 2.0 or BSD
License: [18]
Copyright: [19]
Dependency: pep517 0.10.0
License: MIT
License: [20]
Copyright: [21]
Dependency: progress 1.5
License: ISC
License: [22]
Copyright: [23]
Dependency: requests 2.25.1
License: Apache 2.0
License: [24]
Copyright: [25]
Dependency: resolvelib 0.7.0
License: ISC
License: [26]
Copyright: [27]
Dependency: tenacity 7.0.0
License: Apache 2.0
License: [12]
Copyright: [28]
Dependency: toml 0.10.2
License: MIT
License: [29]
Copyright: [30]
Dependency: urllib3 1.26.4
License: MIT
License: [31]
```

```
Copyright: [32]
Dependency: chardet 4.0.0
License: GNU LESSER GENERAL PUBLIC LICENSE v2.1
License: [33]
Copyright: [34]
Dependency: idna 3.1
License: BSD 3-Clause
License: [35]
Copyright: [36]
Dependency: msgpack 1.0.2
License: Apache 2.0
License: [37]
Copyright: [38]
Dependency: setuptools 44.0.0
License: MIT
License: [39]
Copyright: [40]
Dependency: webencodings 0.5.1
License: BSD
License: [41]
Copyright: [42]
Dependency: pyparsing 2.4.7
License: MIT
License: [43]
Copyright: [44]

++++++++++++++++++++++++++++++++++
++++++++++ References ++++++++++++
++++++++++++++++++++++++++++++++++
================ Start of Reference [0] ================
Copyright (c) 2008-2021 The pip developers (see AUTHORS.txt file)
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================ End of Reference [0] ================
================ Start of Reference [1] ================
Copyright (c) 2008-2021 The pip developers (see AUTHORS.txt file)
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
```

```
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================ End of Reference [1] ================
================ Start of Reference [2] ================
# This is the MIT license
Copyright (c) 2010 ActiveState Software Inc.
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================ End of Reference [2] ================
================ Start of Reference [3] ================
Copyright (c) 2010 ActiveState Software Inc.
================ End of Reference [3] ================
================ Start of Reference [4] ================
Copyright 2015 Eric Larson
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied.
See the License for the specific language governing permissions and
limitations under the License.
================ End of Reference [4] ================
================ Start of Reference [5] ================
Copyright 2015 Eric Larson
================ End of Reference [5] ================
================ Start of Reference [6] ================
This packge contains a modified version of ca-bundle.crt:
ca-bundle.crt -- Bundle of CA Root Certificates
Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#
***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.
***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $
================ End of Reference [6] ================
```

```
================ Start of Reference [7] ================
This packge contains a modified version of ca-bundle.crt:
ca-bundle.crt -- Bundle of CA Root Certificates
Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#
***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.
***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $
================ End of Reference [7] ================
================ Start of Reference [8] ================
Copyright (c) 2010 Jonathan Hartley
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holders, nor those of its contributors
  may be used to endorse or promote products derived from this software
 without
  specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
================ End of Reference [8] ================
================ Start of Reference [9] ================
Copyright Jonathan Hartley & Arnon Yaari, 2013-2020. BSD 3-Clause license;
 see LICENSE file.
================ End of Reference [9] ================
================ Start of Reference [10] ================
A. HISTORY OF THE SOFTWARE
==========================
Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for
```

```
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property.  Zope Corporation is a sponsoring member of
the PSF.
All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)
    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.2             2.1.1       2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2.1           2.2         2002        PSF         yes
    2.2.2           2.2.1       2002        PSF         yes
    2.2.3           2.2.2       2003        PSF         yes
    2.3             2.2.2       2002-2003   PSF         yes
    2.3.1           2.3         2002-2003   PSF         yes
    2.3.2           2.3.1       2002-2003   PSF         yes
    2.3.3           2.3.2       2002-2003   PSF         yes
    2.3.4           2.3.3       2004        PSF         yes
    2.3.5           2.3.4       2005        PSF         yes
    2.4             2.3         2004        PSF         yes
    2.4.1           2.4         2005        PSF         yes
    2.4.2           2.4.1       2005        PSF         yes
    2.4.3           2.4.2       2006        PSF         yes
    2.4.4           2.4.3       2006        PSF         yes
    2.5             2.4         2006        PSF         yes
    2.5.1           2.5         2007        PSF         yes
    2.5.2           2.5.1       2008        PSF         yes
    2.5.3           2.5.2       2008        PSF         yes
    2.6             2.5         2008        PSF         yes
    2.6.1           2.6         2008        PSF         yes
    2.6.2           2.6.1       2009        PSF         yes
    2.6.3           2.6.2       2009        PSF         yes
    2.6.4           2.6.3       2009        PSF         yes
    2.6.5           2.6.4       2010        PSF         yes
    3.0             2.6         2008        PSF         yes
    3.0.1           3.0         2009        PSF         yes
    3.1             3.0.1       2009        PSF         yes
    3.1.1           3.1         2009        PSF         yes
    3.1.2           3.1         2010        PSF         yes
    3.2             3.1         2010        PSF         yes
Footnotes:
(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.
```

```
(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.
Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.
B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================
PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------
1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.
2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010
Python Software Foundation; All Rights Reserved" are retained in Python
 alone or
in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.
4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.
8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------
BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1
1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").
2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
```

```
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.
3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.
7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------
1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.
2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the Internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the Internet
using the following URL: http://hdl.handle.net/1895.22/1013".
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.
4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
```

```
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.
8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.
        ACCEPT
CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------
Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.
STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
================ End of Reference [10] ================
================ Start of Reference [11] ================
# Copyright (C) 2013-2017 Vinay Sajip.
# Licensed to the Python Software Foundation under a contributor agreement.
# See LICENSE.txt and CONTRIBUTORS.txt.
================ End of Reference [11] ================
================ Start of Reference [12] ================
Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
================ End of Reference [12] ================
================ Start of Reference [13] ================
# Copyright 2015,2016,2017 Nir Cohen
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
================ End of Reference [13] ================
================ Start of Reference [14] ================
Copyright (c) 2006-2013 James Graham and other contributors
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================ End of Reference [14] ================
================ Start of Reference [15] ================
```

```
Copyright (c) 2006-2013 James Graham and other contributors
================ End of Reference [15] ================
================ Start of Reference [16] ================
Copyright (c) 2010-2020 Benjamin Peterson
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================ End of Reference [16] ================
================ Start of Reference [17] ================
Copyright (c) 2010-2020 Benjamin Peterson
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================ End of Reference [17] ================
================ Start of Reference [18] ================
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.
================ End of Reference [18] ================
================ Start of Reference [19] ================
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
================ End of Reference [19] ================
================ Start of Reference [20] ================
The MIT License (MIT)
Copyright (c) 2017 Thomas Kluyver
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
================ End of Reference [20] ================
================ Start of Reference [21] ================
x
================ End of Reference [21] ================
================ Start of Reference [22] ================
# Copyright (c) 2012 Giorgos Verigakis <verigak@gmail.com>
#
# Permission to use, copy, modify, and distribute this software for any
# purpose with or without fee is hereby granted, provided that the above
# copyright notice and this permission notice appear in all copies.
#
# THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
# WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
# ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
# WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
# ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
# OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
================ End of Reference [22] ================
================ Start of Reference [23] ================
# Copyright (c) 2012 Giorgos Verigakis <verigak@gmail.com>
#
# Permission to use, copy, modify, and distribute this software for any
```

```
# purpose with or without fee is hereby granted, provided that the above
# copyright notice and this permission notice appear in all copies.
#
# THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
# WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
# ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
# WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
# ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
# OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
================ End of Reference [23] ================
================ Start of Reference [24] ================
                              Apache License
                         Version 2.0, January 2004
                      http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
```

```
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
================ End of Reference [24] ================
================ Start of Reference [25] ================
Requests
Copyright 2019 Kenneth Reitz
================ End of Reference [25] ================
================ Start of Reference [26] ================
Copyright (c) 2018, Tzu-ping Chung <uranusjr@gmail.com>
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
================ End of Reference [26] ================
================ Start of Reference [27] ================

Copyright (c) 2018, Tzu-ping Chung <uranusjr@gmail.com>
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
```

```
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
================ End of Reference [27] ================
================ Start of Reference [28] ================
# Copyright 2016 Julien Danjou
# Copyright 2016 Joshua Harlow
# Copyright 2013-2014 Ray Holder
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
================ End of Reference [28] ================
================ Start of Reference [29] ================
The MIT License
Copyright 2013-2019 William Pearson
Copyright 2015-2016 Julien Enselme
Copyright 2016 Google Inc.
Copyright 2017 Samuel Vasko
Copyright 2017 Nate Prewitt
Copyright 2017 Jack Evans
Copyright 2019 Filippo Broggini
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
================ End of Reference [29] ================
================ Start of Reference [30] ================
Copyright 2013-2019 William Pearson
Copyright 2015-2016 Julien Enselme
Copyright 2016 Google Inc.
Copyright 2017 Samuel Vasko
Copyright 2017 Nate Prewitt
Copyright 2017 Jack Evans
Copyright 2019 Filippo Broggini
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
================ End of Reference [30] ================
================ Start of Reference [31] ================
MIT License
Copyright (c) 2008-2020 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
================ End of Reference [31] ================
================ Start of Reference [32] ================
Copyright (c) 2008-2020 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)
================ End of Reference [32] ================
================ Start of Reference [33] ================
    GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999
 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.
[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]
       Preamble
  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.
  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.
  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
```

```
these things.
  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.
  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.
  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.
  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.
  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.
  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.
  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.
  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.
  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
```

```
that program using a modified version of the Library.
  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".
  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.
  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)
  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.
  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.
  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:
    a) The modified work must itself be a software library.
    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.
```

```
    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)
These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.
  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.
  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.
  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.
  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
```

```
threshold for this to be true is not precisely defined by law.
  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:
    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)
    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.
    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.
    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.
    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.
  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
```

```
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:
    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.
    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.
  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.
  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.
This section is intended to make thoroughly clear what is believed to
```

```
be a consequence of the rest of this License.
  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.
  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.
       NO WARRANTY
  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
       END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries
  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).
  To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.
    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>
    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
```

```
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.
    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.
    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301
 USA
Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:
  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.
  <signature of Ty Coon>, 1 April 1990
  Ty Coon, President of Vice
That's all there is to it!
================ End of Reference [33] ================
================ Start of Reference [34] ================
# The Original Code is Mozilla Universal charset detector code.
#
# The Initial Developer of the Original Code is
# Netscape Communications Corporation.
# Portions created by the Initial Developer are Copyright (C) 2001
# the Initial Developer. All Rights Reserved.
#
# Contributor(s):
#   Mark Pilgrim - port to Python
#   Shy Shalom - original C code
#
# This library is free software; you can redistribute it and/or
# modify it under the terms of the GNU Lesser General Public
# License as published by the Free Software Foundation; either
# version 2.1 of the License, or (at your option) any later version.
#
# This library is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
# Lesser General Public License for more details.
#
# You should have received a copy of the GNU Lesser General Public
# License along with this library; if not, write to the Free Software
# Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
# 02110-1301  USA
================ End of Reference [34] ================
================ Start of Reference [35] ================
BSD 3-Clause License
Copyright (c) 2013-2021, Kim Davies
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
```

```
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
================ End of Reference [35] ================
================ Start of Reference [36] ================
Copyright (c) 2013-2021, Kim Davies
All rights reserved.
================ End of Reference [36] ================
================ Start of Reference [37] ================
Copyright (C) 2008-2011 INADA Naoki <songofacandy@gmail.com>
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
================ End of Reference [37] ================
================ Start of Reference [38] ================
Copyright (C) 2008-2011 INADA Naoki <songofacandy@gmail.com>
================ End of Reference [38] ================
================ Start of Reference [39] ================
Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
================ End of Reference [39] ================
================ Start of Reference [40] ================
Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>
================ End of Reference [40] ================
================ Start of Reference [41] ================
Copyright (c) 2012 by Simon Sapin.
Some rights reserved.
Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
================ End of Reference [41] ================
================ Start of Reference [42] ================
Copyright (c) 2012 by Simon Sapin.
Some rights reserved.
================ End of Reference [42] ================
================ Start of Reference [43] ================
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
================ End of Reference [43] ================
================ Start of Reference [44] ================
#
# Copyright (c) 2003-2019  Paul T. McGuire
#
# Permission is hereby granted, free of charge, to any person obtaining
# a copy of this software and associated documentation files (the
# "Software"), to deal in the Software without restriction, including
# without limitation the rights to use, copy, modify, merge, publish,
# distribute, sublicense, and/or sell copies of the Software, and to
# permit persons to whom the Software is furnished to do so, subject to
# the following conditions:
#
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
# EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
# MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
# IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
```

```
# CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
# TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
# SOFTWARE OR THE USE OR OTHER DEALINGS
================ End of Reference [44] ================
```

Provider: The Prometheus Authors / Component(s): Node Exporter 0.17.0

```
Configurable modular Prometheus exporter for various node metrics.
Copyright 2013-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).

The following components are included in this product:

wifi
https://github.com/mdlayher/wifi
Copyright 2016-2017 Matt Layher
Licensed under the MIT License

netlink
https://github.com/mdlayher/netlink
Copyright 2016-2017 Matt Layher
Licensed under the MIT License
---------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
```

```
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
```

```
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
```

```
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
---------------------------
Fourth Party Dependencies (MIT License):

wifi - https://github.com/mdlayher/wifi - Copyright 2016-2017 Matt Layher
netlink - https://github.com/mdlayher/netlink - Copyright 2016-2017 Matt
 Layher

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
```

```
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: The Prometheus Authors / Component(s): Node Exporter 1.8.1

```
------------------------------ Top-Level License
 ------------------------------
SPDX:Apache-2.0

----------------------------------- Copyright
 -----------------------------------
Copyright 2013-2015 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2016-2017 Matt Layher
Copyright 2017 The Prometheus Authors
Copyright 2017-2019 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors
Copyright 2022 The Prometheus Authors
Copyright 2023 The Prometheus Authors

------------------------------------ Notices
 ------------------------------------
Configurable modular Prometheus exporter for various node metrics.
Copyright 2013-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).

The following components are included in this product:

wifi
https://github.com/mdlayher/wifi
Copyright 2016-2017 Matt Layher
Licensed under the MIT License

netlink
https://github.com/mdlayher/netlink
Copyright 2016-2017 Matt Layher
Licensed under the MIT License


-------------------------- Fourth Party Dependencies
 --------------------------

------------------------------------ Licenses
 ------------------------------------
-  Apache-2.0
-  BSD-2-Clause
-  BSD-3-Clause--modified-by-Google
-  MIT
-  MPL-2.0

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
github.com/alecthomas/kingpin/v2

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2014 Alec Thomas

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/alecthomas/units

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2014 Alec Thomas

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/dennwc/ioctl

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2018 Denys Smirnov

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/beevik/ntp

== License Type
Copyright Â© 2015-2023 Brett Vickers. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

   1. Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDER ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright Â© 2015-2023 Brett Vickers.
Copyright Â© 2015-2023 Brett Vickers. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/beorn7/perks

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2013 Blake Mizerany

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/cespare/xxhash/v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Caleb Spare

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/coreos/go-systemd/v22

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Docker, Inc.
Copyright 2015 CoreOS Inc.
Copyright 2015 CoreOS, Inc.
Copyright 2015 RedHat, Inc.
Copyright 2015, 2018 CoreOS, Inc.
Copyright 2015-2018 CoreOS, Inc.
Copyright 2016 CoreOS, Inc.
Copyright 2018 CoreOS, Inc
Copyright 2018 CoreOS, Inc.
Copyright 2019 CoreOS, Inc.
Copyright 2020 CoreOS, Inc.
Copyright 2022 CoreOS, Inc.

== Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/dennwc/btrfs

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/ema/qdisc

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2017 Emanuele Rocca

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-kit/log

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2021 Go kit
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-logfmt/logfmt

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015 go-logfmt
Copyright 2010 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/godbus/dbus/v5

== License Type
SPDX:BSD-2-Clause
```

```
== Copyright
Copyright (c) 2013, Georg Reinke (<guelfey at gmail dot com>), Google

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hashicorp/go-envparse

== License Type
SPDX:MPL-2.0

== Copyright
Copyright 2017 HashiCorp, Inc.

== Notices
go-envparse
Copyright 2017 HashiCorp, Inc.


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/hodgesds/perf-utils

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2019 Daniel Hodges

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/josharian/native

== License Type
SPDX:MIT

== Copyright
Copyright 2020 Josh Bleecher Snyder

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/jpillora/backoff

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 Jaime Pillora

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/jsimonetti/rtnetlink

== License Type
SPDX:MIT
```

```
== Copyright
Copyright (C) 2016 Jeroen Simonetti

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mattn/go-xmlrpc

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 Yasuhiro Matsumoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mdlayher/ethtool

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2021-2022 Matt Layher

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mdlayher/genetlink

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2016-2022 Matt Layher

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mdlayher/netlink

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2016-2022 Matt Layher
Copyright 2009 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mdlayher/socket

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2021 Matt Layher
```

```
Copyright 2016 The Go Authors. All rights reserved. Use of this source

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mdlayher/wifi

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2016-2022 Matt Layher

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mwitkow/go-conntrack

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 Michal Witkowski. All Rights Reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/opencontainers/selinux

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/prometheus-community/go-runit

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015 SoundCloud Ltd.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/prometheus/client_golang

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2013, The Prometheus Authors
Copyright (c) 2015 BjÃ¶rn Rabenstein
Copyright 2010 The Go Authors
Copyright 2012-2015 The Prometheus Authors
```

```
Copyright 2013 Matt T. Proud
Copyright 2013-2015 Blake Mizerany, BjÃ¶rn Rabenstein
Copyright 2014 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors
Copyright 2022 The Prometheus Authors
Copyright 2023 The Prometheus Authors

== Notices
Prometheus instrumentation library for Go applications
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


The following components are included in this product:

perks - a fork of https://github.com/bmizerany/perks
https://github.com/beorn7/perks
Copyright 2013-2015 Blake Mizerany, BjÃ¶rn Rabenstein
See https://github.com/beorn7/perks/blob/master/README.md for license
 details.

Go support for Protocol Buffers - Google's data interchange format
http://github.com/golang/protobuf/
Copyright 2010 The Go Authors
See source code for license details.

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/client_model

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012-2015 The Prometheus Authors
Copyright 2013 Prometheus Team

== Notices
Data model artifacts for Prometheus.
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/prometheus/common

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2011, Open Knowledge Foundation Ltd.
Copyright 2013 The Prometheus Authors
Copyright 2014 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2020 The Prometheus-operator Authors
Copyright 2021 The Prometheus Authors
Copyright 2022 The Prometheus Authors
Copyright 2023 The Prometheus Authors
Copyright 2024 The Prometheus Authors

== Notices
Common libraries shared by Prometheus Go components.
Copyright 2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/exporter-toolkit

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Matthew Holt and The Caddy Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors
Copyright 2023 The Prometheus Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/procfs

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Prometheus Team
Copyright 2014-2015 The Prometheus Authors
Copyright 2017 Prometheus Team
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
```

```
Copyright 2021 The Prometheus Authors
Copyright 2022 The Prometheus Authors
Copyright 2023 Prometheus Team
Copyright 2023 The Prometheus Authors

== Notices
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

Copyright 2014-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/safchain/ethtool

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/xhit/go-str2duration/v2

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.uber.org/atomic

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016-2020 Uber Technologies, Inc.
Copyright (c) 2020 Uber Technologies, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.uber.org/multierr

== License Type
SPDX:MIT

== Copyright
```

```
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2019 Uber Technologies, Inc.

---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/crypto

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright (c) 2020 The Go Authors. All rights reserved.
Copyright (c) 2021 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/exp
```

```
== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/net

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
```

```
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/oauth2

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2015 The oauth2 Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2017 The oauth2 Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The oauth2 Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sync

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
```

```
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
```

```
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2023 Google Inc.  All rights reserved.
Copyright 2023 The Go Authors. All rights reserved.
Copyright 2024 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/yaml.v2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2006 Kirill Simonov
Copyright 2011-2016 Canonical Ltd.

== Notices
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


----------------------------------- Licenses
 -----------------------------------

---------------------------------- (separator)
 -----------------------------------
== SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.
```

```
"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.
```

```
4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by
 You to the Licensor shall be under the terms and conditions of this
 License, without any additional terms or conditions. Notwithstanding the
 above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may have executed with Licensor regarding such
 Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
```

```
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.
```

```
---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
---------------------------------- (separator)
 -----------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---------------------------------- (separator)
 -----------------------------------
== SPDX:MPL-2.0

Mozilla Public License Version 2.0

1. Definitions

1.1. "Contributor" means each individual or legal entity that creates,
contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version" means the combination of the Contributions of
others (if any) used by a Contributor and that particular Contributor&apos;s
Contribution.

1.3. "Contribution" means Covered Software of a particular Contributor.

1.4. "Covered Software" means Source Code Form to which the initial
Contributor has attached the notice in Exhibit A, the Executable Form of
 such
Source Code Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses" means

(a) that the initial Contributor has attached the notice described in
 Exhibit
B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version
1.1 or earlier of the License, but not also under the terms of a Secondary
License.

1.6. "Executable Form" means any form of the work other than Source Code
 Form.
```

```
1.7. "Larger Work" means a work that combines Covered Software with other
material, in a separate file or files, that is not Covered Software.

1.8. "License" means this document.

1.9. "Licensable" means having the right to grant, to the maximum extent
possible, whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications" means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion
from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including
without limitation, method, process, and apparatus claims, in any patent
Licensable by such Contributor that would be infringed, but for the grant of
the License, by the making, using, selling, offering for sale, having made,
import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License,
 Version
2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero
General Public License, Version 3.0, or any later versions of those
 licenses.

1.13. "Source Code Form" means the form of the work preferred for making
modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising
rights under this License. For legal entities, "You" includes any entity
 that
controls, is controlled by, or is under common control with You. For
 purposes
of this definition, "control" means (a) the power, direct or indirect, to
cause the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available, modify,
display, perform, distribute, and otherwise exploit its Contributions,
 either
on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its Contributions or
its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become
effective for each Contribution on the date the Contributor first
 distributes
such Contribution.
```

```
2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this
License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party&apos;s
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
 Version);
or

(c) under Patent Claims infringed by Covered Software in the absence of its
Contributions.

This License does not grant any rights in the trademarks, service marks, or
logos of any Contributor (except as may be necessary to comply with the
 notice
requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this License
(see Section 10.2) or under the terms of a Secondary License (if permitted
under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions
are its original creation(s) or it has sufficient rights to grant the rights
to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable
copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under the
terms of this License. You must inform recipients that the Source Code Form
 of
the Covered Software is governed by the terms of this License, and how they
can obtain a copy of this License. You may not attempt to alter or restrict
the recipients&apos; rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:
```

```
(a) such Covered Software must also be made available in Source Code Form,
 as
described in Section 3.1, and You must inform recipients of the Executable
Form how they can obtain a copy of such Source Code Form by reasonable means
in a timely manner, at a charge no more than the cost of distribution to the
recipient; and

(b) You may distribute such Executable Form under the terms of this License,
or sublicense it under different terms, provided that the license for the
Executable Form does not attempt to limit or alter the recipients&apos;
 rights
in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for the
Covered Software. If the Larger Work is a combination of Covered Software
 with
a work governed by one or more Secondary Licenses, and the Covered Software
 is
not Incompatible With Secondary Licenses, this License permits You to
additionally distribute such Covered Software under the terms of such
Secondary License(s), so that the recipient of the Larger Work may, at their
option, further distribute the Covered Software under the terms of either
 this
License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including
copyright notices, patent notices, disclaimers of warranty, or limitations
 of
liability) contained within the Source Code Form of the Covered Software,
except that You may alter any license notices to the extent required to
 remedy
known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity
or liability obligations to one or more recipients of Covered Software.
However, You may do so only on Your own behalf, and not on behalf of any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity, or liability obligation is offered by You alone, and You
hereby agree to indemnify every Contributor for any liability incurred by
 such
Contributor as a result of warranty, support, indemnity or liability terms
 You
offer. You may include additional disclaimers of warranty and limitations of
liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute, judicial
order, or regulation then You must: (a) comply with the terms of this
 License
to the maximum extent possible; and (b) describe the limitations and the
 code
they affect. Such description must be placed in a text file included with
 all
```

```
distributions of the Covered Software under this License. Except to the
 extent
prohibited by statute or regulation, such description must be sufficiently
detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
fail to comply with any of its terms. However, if You become compliant, then
the rights granted under this License from a particular Contributor are
reinstated (a) provisionally, unless and until such Contributor explicitly
 and
finally terminates Your grants, and (b) on an ongoing basis, if such
Contributor fails to notify You of the non-compliance by some reasonable
 means
prior to 60 days after You have come back into compliance. Moreover, Your
grants from a particular Contributor are reinstated on an ongoing basis if
such Contributor notifies You of the non-compliance by some reasonable
 means,
this is the first time You have received notice of non-compliance with this
License from such Contributor, and You become compliant prior to 30 days
 after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions, counter-claims,
and cross-claims) alleging that a Contributor Version directly or indirectly
infringes any patent, then the rights granted to You by any and all
Contributors for the Covered Software under Section 2.1 of this License
 shall
terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
warranty of any kind, either expressed, implied, or statutory, including,
without limitation, warranties that the Covered Software is free of defects,
merchantable, fit for a particular purpose or non-infringing. The entire
 risk
as to the quality and performance of the Covered Software is with You.
 Should
any Covered Software prove defective in any respect, You (not any
 Contributor)
assume the cost of any necessary servicing, repair, or correction. This
disclaimer of warranty constitutes an essential part of this License. No use
of any Covered Software is authorized under this License except under this
disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
 other
commercial damages or losses, even if such party shall have been informed of
```

```
the possibility of such damages. This limitation of liability shall not
 apply
to liability for death or personal injury resulting from such party&apos;s
negligence to the extent applicable law prohibits such limitation. Some
jurisdictions do not allow the exclusion or limitation of incidental or
consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of
 a
jurisdiction where the defendant maintains its principal place of business
 and
such litigation shall be governed by laws of that jurisdiction, without
reference to its conflict-of-law provisions. Nothing in this Section shall
prevent a party&apos;s ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. Any law or regulation which provides that the language of a
contract shall be construed against the drafter shall not be used to
 construe
this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
 10.3,
no one other than the license steward has the right to modify or publish new
versions of this License. Each version will be given a distinguishing
 version
number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of
 the
License under which You originally received the Covered Software, or under
 the
terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create
 a
new license for such software, you may create and use a modified version of
this License if you rename the license and remove any references to the name
of the license steward (except to note that such modified license differs
 from
this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
 notice
described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
```

```
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by
the Mozilla Public License, v. 2.0.
```

Provider: The Prometheus Authors / Component(s): Prometheus 2.31.0

```
************************************************************
***************** Copied from BA Public License *****************

------------------------------- Top-level license --------------------------
The Prometheus systems and service monitoring server
Copyright 2012-2015 The Prometheus Authors
This product includes software developed at
SoundCloud Ltd. (https://soundcloud.com/).
The following components are included in this product:
Bootstrap
https://getbootstrap.com
Copyright 2011-2014 Twitter, Inc.
Licensed under the MIT License
bootstrap3-typeahead.js
https://github.com/bassjobsen/Bootstrap-3-Typeahead
Original written by @mdo and @fat
Copyright 2014 Bass Jobsen @bassjobsen
Licensed under the Apache License, Version 2.0
fuzzy
https://github.com/mattyork/fuzzy
Original written by @mattyork
Copyright 2012 Matt York
Licensed under the MIT License
bootstrap-datetimepicker.js
https://github.com/Eonasdan/bootstrap-datetimepicker
Copyright 2015 Jonathan Peterson (@Eonasdan)
Licensed under the MIT License
moment.js
https://github.com/moment/moment/
Copyright JS Foundation and other contributors
Licensed under the MIT License
Rickshaw
https://github.com/shutterstock/rickshaw
Copyright 2011-2014 by Shutterstock Images, LLC
See https://github.com/shutterstock/rickshaw/blob/master/LICENSE for license
 details
mustache.js
https://github.com/janl/mustache.js
Copyright 2009 Chris Wanstrath (Ruby)
Copyright 2010-2014 Jan Lehnardt (JavaScript)
Copyright 2010-2015 The mustache.js community
Licensed under the MIT License
```

```
jQuery
https://jquery.org
Copyright jQuery Foundation and other contributors
Licensed under the MIT License
Protocol Buffers for Go with Gadgets
https://github.com/gogo/protobuf/
Copyright (c) 2013, The GoGo Authors.
See source code for license details.
Go support for leveled logs, analogous to
https://code.google.com/p/google-glog/
Copyright 2013 Google Inc.
Licensed under the Apache License, Version 2.0
Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0
DNS library in Go
https://miek.nl/2014/august/16/go-dns-package/
Copyright 2009 The Go Authors, 2011 Miek Gieben
See https://github.com/miekg/dns/blob/master/LICENSE for license details.
LevelDB key/value database in Go
https://github.com/syndtr/goleveldb
Copyright 2012 Suryandaru Triandana
See https://github.com/syndtr/goleveldb/blob/master/LICENSE for license
 details.
gosnappy - a fork of code.google.com/p/snappy-go
https://github.com/syndtr/gosnappy
Copyright 2011 The Snappy-Go Authors
See https://github.com/syndtr/gosnappy/blob/master/LICENSE for license
 details.
go-zookeeper - Native ZooKeeper client for Go
https://github.com/samuel/go-zookeeper
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
See https://github.com/samuel/go-zookeeper/blob/master/LICENSE for license
 details.
Time series compression algorithm from Facebook's Gorilla paper
https://github.com/dgryski/go-tsz
Copyright (c) 2015,2016 Damian Gryski <damian@gryski.com>
See https://github.com/dgryski/go-tsz/blob/master/LICENSE for license
 details.
The Codicon icon font from Microsoft
https://github.com/microsoft/vscode-codicons
Copyright (c) Microsoft Corporation and other contributors
See https://github.com/microsoft/vscode-codicons/blob/main/LICENSE for
 license details.
We also use code from a large number of npm packages. For details, see:
- https://github.com/prometheus/prometheus/blob/main/web/ui/react-app/
package.json
- https://github.com/prometheus/prometheus/blob/main/web/ui/react-app/
package-lock.json
- The individual package licenses as copied from the node_modules directory
 can be found in
  the npm_licenses.tar.bz2 archive in release tarballs and Docker images.
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
---------------------------- Fourth-party information ----------------------
github.com/Azure/azure-sdk-for-go https://github.com/Azure/azure-sdk-for-go
The MIT License (MIT)
Copyright (c) Microsoft Corporation.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/Azure/go-autorest/autorest https://github.com/Azure/go-autorest
   Copyright 2015 Microsoft Corporation
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/Azure/go-autorest/autorest/adal https://github.com/Azure/go-
autorest
   Copyright 2015 Microsoft Corporation
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/Azure/go-autorest/autorest/to https://github.com/Azure/go-
autorest
   Copyright 2015 Microsoft Corporation
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/Azure/go-autorest/autorest/validation https://github.com/Azure/
go-autorest
   Copyright 2015 Microsoft Corporation
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/alecthomas/units https://github.com/alecthomas/units
Copyright (C) 2014 Alec Thomas
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/aws/aws-sdk-go https://github.com/aws/aws-sdk-go
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
github.com/cespare/xxhash/v2 https://github.com/cespare/xxhash
Copyright (c) 2016 Caleb Spare
MIT License
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/containerd/containerd https://github.com/containerd/containerd
   Copyright The containerd Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       https://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
github.com/dennwc/varint https://github.com/dennwc/varint
MIT License
Copyright (c) 2019 Denys Smirnov
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/dgryski/go-sip13 https://github.com/dgryski/go-sip13
The MIT License (MIT)
Copyright (c) 2016,2017 Damian Gryski <damian@gryski.com>
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/digitalocean/godo https://github.com/digitalocean/godo
Copyright (c) 2014-2016 The godo AUTHORS. All rights reserved.
MIT License
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
======================
Portions of the client are based on code at:
https://github.com/google/go-github/
Copyright (c) 2013 The go-github AUTHORS. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
```

```
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)--------------------------------
github.com/docker/docker https://github.com/docker/docker
   Copyright 2013-2018 Docker, Inc.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       https://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/docker/go-connections https://github.com/docker/go-connections
   Copyright 2015 Docker, Inc.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       https://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/edsrzf/mmap-go https://github.com/edsrzf/mmap-go
Copyright (c) 2011, Evan Shaw <edsrzf@gmail.com>
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the
      names of its contributors may be used to endorse or promote products
      derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)--------------------------------
```

```
github.com/envoyproxy/go-control-plane https://github.com/envoyproxy/go-
control-plane
Copyright 2018 Envoyproxy Authors
Copyright 2019 Envoyproxy Authors
Copyright 2020 Envoyproxy Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/envoyproxy/protoc-gen-validate https://github.com/envoyproxy/
protoc-gen-validate
Copyright 2019 Envoy Project Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/go-kit/log https://github.com/go-kit/log
MIT License
Copyright (c) 2021 Go kit
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)--------------------------------
github.com/go-logfmt/logfmt https://github.com/go-logfmt/logfmt
The MIT License (MIT)
Copyright (c) 2015 go-logfmt
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/go-openapi/strfmt https://github.com/go-openapi/strfmt
Copyright 2015 go-swagger maintainers
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
github.com/go-zookeeper/zk https://github.com/go-zookeeper/zk
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of the author nor the
  names of its contributors may be used to endorse or promote products
  derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
github.com/gogo/protobuf https://github.com/gogo/protobuf
Copyright (c) 2013, The GoGo Authors. All rights reserved.
Protocol Buffers for Go with Gadgets
Go support for Protocol Buffers - Google's data interchange format
Copyright 2010 The Go Authors.  All rights reserved.
https://github.com/golang/protobuf
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
```

```
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
github.com/golang/snappy https://github.com/golang/snappy
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
github.com/google/pprof https://github.com/google/pprof
Copyright 2014 Google Inc. All Rights Reserved.
Copyright 2016 Google Inc. All Rights Reserved.
Copyright 2017 Google Inc. All Rights Reserved.
Copyright 2018 Google Inc. All Rights Reserved.
Copyright (c) 2013 Justin Palmer
Copyright 2019 Google Inc. All Rights Reserved.
Copyright 2009-2017 Andrea Leofreddi <a.leofreddi@vleo.net>. All rights
 reserved.
Copyright 2010-2017 Mike Bostock
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
github.com/gophercloud/gophercloud https://github.com/gophercloud/
gophercloud
Copyright 2012-2013 Rackspace, Inc.
```

```
Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use
this file except in compliance with the License.  You may obtain a copy of
 the
License at
  http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
 distributed
under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.  See the License for the
specific language governing permissions and limitations under the License.

--------------------------------(separator)---------------------------------
github.com/grpc-ecosystem/grpc-gateway https://github.com/grpc-ecosystem/
grpc-gateway
Copyright (c) 2015, Gengo, Inc.
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of Gengo, Inc. nor the names of its
      contributors may be used to endorse or promote products derived from
 this
      software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
github.com/hashicorp/consul/api https://github.com/hashicorp/consul
Mozilla Public License, version 2.0
1. Definitions
1.1. Contributor
     means each individual or legal entity that creates, contributes to the
     creation of, or owns Covered Software.
1.2. Contributor Version
     means the combination of the Contributions of others (if any) used by a
     Contributor and that particular Contributorâ€™s Contribution.
1.3. Contribution
     means Covered Software of a particular Contributor.
1.4. Covered Software
     means Source Code Form to which the initial Contributor has attached
 the
     notice in Exhibit A, the Executable Form of such Source Code Form, and
     Modifications of such Source Code Form, in each case including portions
```

```
     thereof.
1.5. Incompatible With Secondary Licenses
     means
     a. that the initial Contributor has attached the notice described in
        Exhibit B to the Covered Software; or
     b. that the Covered Software was made available under the terms of
 version
        1.1 or earlier of the License, but not also under the terms of a
        Secondary License.
1.6. Executable Form
     means any form of the work other than Source Code Form.
1.7. Larger Work
     means a work that combines Covered Software with other material, in a
 separate
     file or files, that is not Covered Software.
1.8. License
     means this document.
1.9. Licensable
     means having the right to grant, to the maximum extent possible,
 whether at the
     time of the initial grant or subsequently, any and all of the rights
 conveyed by
     this License.
1.10. Modifications
     means any of the following:
     a. any file in Source Code Form that results from an addition to,
 deletion
        from, or modification of the contents of Covered Software; or
     b. any new file in Source Code Form that contains any Covered Software.
1.11. Patent Claims of a Contributor
      means any patent claim(s), including without limitation, method,
 process,
      and apparatus claims, in any patent Licensable by such Contributor
 that
      would be infringed, but for the grant of the License, by the making,
      using, selling, offering for sale, having made, import, or transfer of
      either its Contributions or its Contributor Version.
1.12. Secondary License
      means either the GNU General Public License, Version 2.0, the GNU
 Lesser
      General Public License, Version 2.1, the GNU Affero General Public
      License, Version 3.0, or any later versions of those licenses.
1.13. Source Code Form
      means the form of the work preferred for making modifications.
1.14. You (or Your)
      means an individual or a legal entity exercising rights under this
      License. For legal entities, You includes any entity that controls, is
      controlled by, or is under common control with You. For purposes of
 this
      definition, control means (a) the power, direct or indirect, to cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.
2. License Grants and Conditions
2.1. Grants
     Each Contributor hereby grants You a world-wide, royalty-free,
     non-exclusive license:
     a. under intellectual property rights (other than patent or trademark)
        Licensable by such Contributor to use, reproduce, make available,
        modify, display, perform, distribute, and otherwise exploit its
        Contributions, either on an unmodified basis, with Modifications, or
 as
        part of a Larger Work; and
```

```
     b. under Patent Claims of such Contributor to make, use, sell, offer
 for
        sale, have made, import, and otherwise transfer either its
 Contributions
        or its Contributor Version.
2.2. Effective Date
     The licenses granted in Section 2.1 with respect to any Contribution
 become
     effective for each Contribution on the date the Contributor first
 distributes
     such Contribution.
2.3. Limitations on Grant Scope
     The licenses granted in this Section 2 are the only rights granted
 under this
     License. No additional rights or licenses will be implied from the
 distribution
     or licensing of Covered Software under this License. Notwithstanding
 Section
     2.1(b) above, no patent license is granted by a Contributor:
     a. for any code that a Contributor has removed from Covered Software;
 or
     b. for infringements caused by: (i) Your and any other third partyâ€™s
        modifications of Covered Software, or (ii) the combination of its
        Contributions with other software (except as part of its Contributor
        Version); or
     c. under Patent Claims infringed by Covered Software in the absence of
 its
        Contributions.
     This License does not grant any rights in the trademarks, service
 marks, or
     logos of any Contributor (except as may be necessary to comply with the
     notice requirements in Section 3.4).
2.4. Subsequent Licenses
     No Contributor makes additional grants as a result of Your choice to
     distribute the Covered Software under a subsequent version of this
 License
     (see Section 10.2) or under the terms of a Secondary License (if
 permitted
     under the terms of Section 3.3).
2.5. Representation
     Each Contributor represents that the Contributor believes its
 Contributions
     are its original creation(s) or it has sufficient rights to grant the
     rights to its Contributions conveyed by this License.
2.6. Fair Use
     This License is not intended to limit any rights You have under
 applicable
     copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions
     Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
 in
     Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form
     All distribution of Covered Software in Source Code Form, including any
     Modifications that You create or to which You contribute, must be under
 the
     terms of this License. You must inform recipients that the Source Code
 Form
     of the Covered Software is governed by the terms of this License, and
 how
     they can obtain a copy of this License. You may not attempt to alter or
     restrict the recipientsâ€™ rights in the Source Code Form.
3.2. Distribution of Executable Form
```

```
     If You distribute Covered Software in Executable Form then:
     a. such Covered Software must also be made available in Source Code
 Form,
        as described in Section 3.1, and You must inform recipients of the
        Executable Form how they can obtain a copy of such Source Code Form
 by
        reasonable means in a timely manner, at a charge no more than the
 cost
        of distribution to the recipient; and
     b. You may distribute such Executable Form under the terms of this
 License,
        or sublicense it under different terms, provided that the license
 for
        the Executable Form does not attempt to limit or alter the
 recipientsâ€™
        rights in the Source Code Form under this License.
3.3. Distribution of a Larger Work
     You may create and distribute a Larger Work under terms of Your choice,
     provided that You also comply with the requirements of this License for
 the
     Covered Software. If the Larger Work is a combination of Covered
 Software
     with a work governed by one or more Secondary Licenses, and the Covered
     Software is not Incompatible With Secondary Licenses, this License
 permits
     You to additionally distribute such Covered Software under the terms of
     such Secondary License(s), so that the recipient of the Larger Work
 may, at
     their option, further distribute the Covered Software under the terms
 of
     either this License or such Secondary License(s).
3.4. Notices
     You may not remove or alter the substance of any license notices
 (including
     copyright notices, patent notices, disclaimers of warranty, or
 limitations
     of liability) contained within the Source Code Form of the Covered
     Software, except that You may alter any license notices to the extent
     required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
     You may choose to offer, and to charge a fee for, warranty, support,
     indemnity or liability obligations to one or more recipients of Covered
     Software. However, You may do so only on Your own behalf, and not on
 behalf
     of any Contributor. You must make it absolutely clear that any such
     warranty, support, indemnity, or liability obligation is offered by You
     alone, and You hereby agree to indemnify every Contributor for any
     liability incurred by such Contributor as a result of warranty,
 support,
     indemnity or liability terms You offer. You may include additional
     disclaimers of warranty and limitations of liability specific to any
     jurisdiction.
4. Inability to Comply Due to Statute or Regulation
   If it is impossible for You to comply with any of the terms of this
 License
   with respect to some or all of the Covered Software due to statute,
 judicial
   order, or regulation then You must: (a) comply with the terms of this
 License
   to the maximum extent possible; and (b) describe the limitations and the
 code
   they affect. Such description must be placed in a text file included with
 all
   distributions of the Covered Software under this License. Except to the
```

```
   extent prohibited by statute or regulation, such description must be
   sufficiently detailed for a recipient of ordinary skill to be able to
   understand it.
5. Termination
5.1. The rights granted under this License will terminate automatically if
 You
     fail to comply with any of its terms. However, if You become compliant,
     then the rights granted under this License from a particular
 Contributor
     are reinstated (a) provisionally, unless and until such Contributor
     explicitly and finally terminates Your grants, and (b) on an ongoing
 basis,
     if such Contributor fails to notify You of the non-compliance by some
     reasonable means prior to 60 days after You have come back into
 compliance.
     Moreover, Your grants from a particular Contributor are reinstated on
 an
     ongoing basis if such Contributor notifies You of the non-compliance by
     some reasonable means, this is the first time You have received notice
 of
     non-compliance with this License from such Contributor, and You become
     compliant prior to 30 days after Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
     infringement claim (excluding declaratory judgment actions, counter-
claims,
     and cross-claims) alleging that a Contributor Version directly or
     indirectly infringes any patent, then the rights granted to You by any
 and
     all Contributors for the Covered Software under Section 2.1 of this
 License
     shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
     license agreements (excluding distributors and resellers) which have
 been
     validly granted by You or Your distributors under this License prior to
     termination shall survive termination.
6. Disclaimer of Warranty
   Covered Software is provided under this License on an as is basis,
 without
   warranty of any kind, either expressed, implied, or statutory, including,
   without limitation, warranties that the Covered Software is free of
 defects,
   merchantable, fit for a particular purpose or non-infringing. The entire
   risk as to the quality and performance of the Covered Software is with
 You.
   Should any Covered Software prove defective in any respect, You (not any
   Contributor) assume the cost of any necessary servicing, repair, or
   correction. This disclaimer of warranty constitutes an essential part of
 this
   License. No use of  any Covered Software is authorized under this License
   except under this disclaimer.
7. Limitation of Liability
   Under no circumstances and under no legal theory, whether tort (including
   negligence), contract, or otherwise, shall any Contributor, or anyone who
   distributes Covered Software as permitted above, be liable to You for any
   direct, indirect, special, incidental, or consequential damages of any
   character including, without limitation, damages for lost profits, loss
 of
   goodwill, work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses, even if such party shall have been
   informed of the possibility of such damages. This limitation of liability
   shall not apply to liability for death or personal injury resulting from
 such
```

```
   partyâ€™s negligence to the extent applicable law prohibits such
 limitation.
   Some jurisdictions do not allow the exclusion or limitation of incidental
 or
   consequential damages, so this exclusion and limitation may not apply to
 You.
8. Litigation
   Any litigation relating to this License may be brought only in the courts
 of
   a jurisdiction where the defendant maintains its principal place of
 business
   and such litigation shall be governed by laws of that jurisdiction,
 without
   reference to its conflict-of-law provisions. Nothing in this Section
 shall
   prevent a partyâ€™s ability to bring cross-claims or counter-claims.
9. Miscellaneous
   This License represents the complete agreement concerning the subject
 matter
   hereof. If any provision of this License is held to be unenforceable,
 such
   provision shall be reformed only to the extent necessary to make it
   enforceable. Any law or regulation which provides that the language of a
   contract shall be construed against the drafter shall not be used to
 construe
   this License against a Contributor.
10. Versions of the License
10.1. New Versions
      Mozilla Foundation is the license steward. Except as provided in
 Section
      10.3, no one other than the license steward has the right to modify or
      publish new versions of this License. Each version will be given a
      distinguishing version number.
10.2. Effect of New Versions
      You may distribute the Covered Software under the terms of the version
 of
      the License under which You originally received the Covered Software,
 or
      under the terms of any subsequent version published by the license
      steward.
10.3. Modified Versions
      If you create software not governed by this License, and you want to
      create a new license for such software, you may create and use a
 modified
      version of this License if you rename the license and remove any
      references to the name of the license steward (except to note that
 such
      modified license differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
      If You choose to distribute Source Code Form that is Incompatible With
      Secondary Licenses under the terms of this version of the License, the
      notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
      This Source Code Form is subject to the
      terms of the Mozilla Public License, v.
      2.0. If a copy of the MPL was not
      distributed with this file, You can
      obtain one at
      http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular file,
 then
You may include the notice in a location (such as a LICENSE file in a
 relevant
```

```
directory) where a recipient would be likely to look for such a notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - Incompatible With Secondary Licenses Notice
      This Source Code Form is â€œIncompatible
      With Secondary Licenses, as defined by
      the Mozilla Public License, v. 2.0.
--------------------------------(separator)---------------------------------
github.com/hetznercloud/hcloud-go https://github.com/hetznercloud/hcloud-go
MIT License
Copyright (c) 2018-2020 Hetzner Cloud GmbH
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/influxdata/influxdb https://github.com/influxdata/influxdb
MIT License
Copyright (c) 2018 InfluxData
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/json-iterator/go https://github.com/json-iterator/go
MIT License
Copyright (c) 2016 json-iterator
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/kolo/xmlrpc https://github.com/kolo/xmlrpc
Copyright (C) 2012 Dmitry Maksimov
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/linode/linodego https://github.com/linode/linodego
MIT License
Copyright (c) 2017 Christopher "Chief" Najewicz
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/miekg/dns https://github.com/miekg/dns
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
```

```
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
As this is fork of the official Go code the same license applies.
Extensions of the original work are copyright (c) 2011 Miek Gieben
--------------------------------(separator)--------------------------------
github.com/moby/term https://github.com/moby/term
   Copyright 2013-2018 Docker, Inc.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       https://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/morikuni/aec https://github.com/morikuni/aec
The MIT License (MIT)
Copyright (c) 2016 Taihei Morikuni
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)--------------------------------
github.com/mwitkow/go-conntrack https://github.com/mwitkow/go-conntrack
Copyright 2016 Michal Witkowski. All Rights Reserved.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
github.com/oklog/run https://github.com/oklog/run
   Copyright 2017 Peter Bourgon
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
github.com/oklog/ulid https://github.com/oklog/ulid
Copyright 2016 The Oklog Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
github.com/opentracing-contrib/go-stdlib https://github.com/opentracing-
contrib/go-stdlib
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
NOTE: There are no copyright notice files, license files, or any copyright
 strings in source code.
--------------------------------(separator)---------------------------------
github.com/opentracing/opentracing-go https://github.com/opentracing/
opentracing-go
   Copyright 2016 The OpenTracing Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
```

```
github.com/pkg/errors https://github.com/pkg/errors
Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------------(separator)---------------------------------
github.com/prometheus/alertmanager https://github.com/prometheus/
alertmanager
Copyright 2021 Prometheus Team
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
---------------------------------(separator)---------------------------------
github.com/prometheus/client_golang https://github.com/prometheus/
client_golang
Copyright 2012-2015 The Prometheus Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
---------------------------------(separator)---------------------------------
github.com/prometheus/client_model https://github.com/prometheus/
client_model
Copyright 2012-2015 The Prometheus Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
---------------------------------(separator)---------------------------------
```

```
github.com/prometheus/common https://github.com/prometheus/common
Copyright 2013 The Prometheus Authors
Copyright 2014 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/prometheus/common/sigv4 https://github.com/prometheus/common
Copyright 2013 The Prometheus Authors
Copyright 2014 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/prometheus/exporter-toolkit https://github.com/prometheus/
exporter-toolkit
Copyright 2018 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2015 Matthew Holt and The Caddy Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors
Copyright 2021 The Prometheus Authors
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
github.com/scaleway/scaleway-sdk-go https://github.com/scaleway/scaleway-
sdk-go
   Copyright 2019 Scaleway.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       https://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
github.com/shurcooL/httpfs https://github.com/shurcooL/httpfs
MIT License
Copyright (c) 2015 Dmitri Shuralyov
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/shurcooL/vfsgen https://github.com/shurcooL/vfsgen
MIT License
Copyright (c) 2015 Dmitri Shuralyov
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/stretchr/testify https://github.com/stretchr/testify
MIT License
Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
github.com/uber/jaeger-client-go https://github.com/uber/jaeger-client-go
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2017-2018 Uber Technologies, Inc.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
github.com/uber/jaeger-lib https://github.com/uber/jaeger-lib
Copyright (c) 2019 The Jaeger Authors.
Copyright (c) 2017 Uber Technologies, Inc.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
go.uber.org/atomic https://github.com/uber-go/atomic
Copyright (c) 2016 Uber Technologies, Inc.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------(separator)---------------------------------
go.uber.org/goleak https://github.com/uber-go/goleak
The MIT License (MIT)
Copyright (c) 2018 Uber Technologies, Inc.
Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
--------------------------------(separator)--------------------------------
golang.org/x/net https://github.com/golang/net
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)--------------------------------
golang.org/x/oauth2 https://github.com/golang/oauth2
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
golang.org/x/sync https://github.com/golang/sync
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
golang.org/x/sys https://github.com/golang/sys
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
golang.org/x/time https://github.com/golang/time
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
```

```
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)--------------------------------
golang.org/x/tools https://github.com/golang/tools
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)--------------------------------
google.golang.org/api https://github.com/googleapis/google-api-go-client
Copyright (c) 2011 Google Inc. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
google.golang.org/genproto https://github.com/googleapis/go-genproto
Copyright (c) 2015, Google Inc.
Copyright 2015 Google LLC
Copyright 2016 Google Inc.
Copyright 2017 Google Inc.
Copyright 2018 Google LLC
Copyright 2018 The Grafeas Authors. All rights reserved.
Copyright 2019 Google LLC.
Copyright 2020 Google LLC
Copyright 2021 Google LLC
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
google.golang.org/protobuf https://github.com/golang/protobuf
Copyright 2010 The Go Authors.  All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
gopkg.in/alecthomas/kingpin.v2 https://github.com/alecthomas/kingpin
Copyright (C) 2014 Alec Thomas
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
```

```
so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
--------------------------------(separator)---------------------------------
gopkg.in/fsnotify/fsnotify.v1 https://github.com/fsnotify/fsnotify
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
--------------------------------(separator)---------------------------------
gopkg.in/yaml.v2 https://github.com/go-yaml/yaml
Copyright 2011-2016 Canonical Ltd.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
gopkg.in/yaml.v3 https://github.com/go-yaml/yaml
Copyright 2011-2016 Canonical Ltd.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
--------------------------------(separator)---------------------------------
k8s.io/api https://github.com/kubernetes/api
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright The Kubernetes Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
k8s.io/apimachinery https://github.com/kubernetes/apimachinery
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright The Kubernetes Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
k8s.io/client-go https://github.com/kubernetes/client-go
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
Copyright The Kubernetes Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)---------------------------------
k8s.io/klog https://github.com/kubernetes/klog
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
Copyright 2013 Google Inc. All Rights Reserved.
Copyright 2020 The Kubernetes Authors.
```

```
Copyright 2021 The Kubernetes Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
k8s.io/klog/v2 https://github.com/kubernetes/klog
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/
Copyright 2013 Google Inc. All Rights Reserved.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
--------------------------------(separator)--------------------------------
-------------------------- Compoments added via import
 -----------------------
pkg.go.dev/crypto/tls/fipsonly https://pkg.go.dev/crypto/tls/fipsonly
The Go source code and supporting files in this directory
are covered by the usual Go license (see ../../../../LICENSE).
The goboringcrypto_linux_amd64.syso object file is built
from BoringSSL source code by build/build.sh and is covered
by the BoringSSL license reproduced below and also at
https://boringssl.googlesource.com/boringssl/+/fips-20190808/LICENSE.
BoringSSL is a fork of OpenSSL. As such, large parts of it fall under
 OpenSSL
licensing. Files that are completely new have a Google copyright and an ISC
license. This license is reproduced at the bottom of this file.
Contributors to BoringSSL are required to follow the CLA rules for Chromium:
https://cla.developers.google.com/clas
Some files from Intel are under yet another license, which is also included
underneath.
The OpenSSL toolkit stays under a dual license, i.e. both the conditions of
 the
OpenSSL License and the original SSLeay license apply to the toolkit. See
 below
for the actual license texts. Actually both licenses are BSD-style Open
 Source
licenses. In case of any license issues related to OpenSSL please contact
openssl-core@openssl.org.
The following are Google-internal bug numbers where explicit permission from
some authors is recorded for use of their work. (This is purely for our own
record keeping.)
  27287199
  27287880
  27287883
  OpenSSL License
  ---------------
/* ====================================================================
 * Copyright (c) 1998-2011 The OpenSSL Project.  All rights reserved.
 *
```

```
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
 * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 * PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
 * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 * OF THE POSSIBILITY OF SUCH DAMAGE.
 * ====================================================================
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com).  This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 *
 */
 Original SSLeay License
 -----------------------
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to.  The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
 * included with this distribution is covered by the same copyright terms
```

```
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given
 attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    "This product includes cryptographic software written by
 *     Eric Young (eay@cryptsoft.com)"
 *    The word 'cryptographic' can be left out if the rouines from the
 library
 *    being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof)
 from
 *    the apps directory (application code) you must include an
 acknowledgement:
 *    "This product includes software written by Tim Hudson
 (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
 * The licence and distribution terms for any publically available version
 or
 * derivative of this code cannot be changed.  i.e. this code cannot simply
 be
 * copied and put under another distribution licence
 * [including the GNU Public Licence.]
 */
ISC license used for completely new code in BoringSSL:
/* Copyright (c) 2015, Google Inc.
 *
 * Permission to use, copy, modify, and/or distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
```

```
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
 ANY
 * SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 ACTION
 * OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
 * CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. */
Some files from Intel carry the following license:
# Copyright (c) 2012, Intel Corporation
#
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are
# met:
#
# *  Redistributions of source code must retain the above copyright
#    notice, this list of conditions and the following disclaimer.
#
# *  Redistributions in binary form must reproduce the above copyright
#    notice, this list of conditions and the following disclaimer in the
#    documentation and/or other materials provided with the
#    distribution.
#
# *  Neither the name of the Intel Corporation nor the names of its
#    contributors may be used to endorse or promote products derived from
#    this software without specific prior written permission.
#
#
# THIS SOFTWARE IS PROVIDED BY INTEL CORPORATION ""AS IS"" AND ANY
# EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
# IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
# PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL CORPORATION OR
# CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
# EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
# PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
# PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
# LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
# NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
# SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2009 The Go Authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Prometheus Authors / Component(s): Prometheus 2.8.0

```
The Prometheus systems and service monitoring server
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (https://soundcloud.com/).


The following components are included in this product:

Bootstrap
https://getbootstrap.com
Copyright 2011-2014 Twitter, Inc.
Licensed under the MIT License

bootstrap3-typeahead.js
https://github.com/bassjobsen/Bootstrap-3-Typeahead
Original written by @mdo and @fat
Copyright 2014 Bass Jobsen @bassjobsen
Licensed under the Apache License, Version 2.0

fuzzy
https://github.com/mattyork/fuzzy
Original written by @mattyork
Copyright 2012 Matt York
Licensed under the MIT License

bootstrap-datetimepicker.js
https://github.com/Eonasdan/bootstrap-datetimepicker
Copyright 2015 Jonathan Peterson (@Eonasdan)
Licensed under the MIT License

moment.js
https://github.com/moment/moment/
Copyright JS Foundation and other contributors
Licensed under the MIT License

Rickshaw
https://github.com/shutterstock/rickshaw
Copyright 2011-2014 by Shutterstock Images, LLC
See https://github.com/shutterstock/rickshaw/blob/master/LICENSE for license
 details

mustache.js
https://github.com/janl/mustache.js
Copyright 2009 Chris Wanstrath (Ruby)
Copyright 2010-2014 Jan Lehnardt (JavaScript)
Copyright 2010-2015 The mustache.js community
Licensed under the MIT License

jQuery
https://jquery.org
Copyright jQuery Foundation and other contributors
Licensed under the MIT License

Protocol Buffers for Go with Gadgets
https://github.com/gogo/protobuf/
Copyright (c) 2013, The GoGo Authors.
See source code for license details.
```

```
Go support for leveled logs, analogous to
https://code.google.com/p/google-glog/
Copyright 2013 Google Inc.
Licensed under the Apache License, Version 2.0

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0

DNS library in Go
https://miek.nl/2014/august/16/go-dns-package/
Copyright 2009 The Go Authors, 2011 Miek Gieben
See https://github.com/miekg/dns/blob/master/LICENSE for license details.

LevelDB key/value database in Go
https://github.com/syndtr/goleveldb
Copyright 2012 Suryandaru Triandana
See https://github.com/syndtr/goleveldb/blob/master/LICENSE for license
 details.

gosnappy - a fork of code.google.com/p/snappy-go
https://github.com/syndtr/gosnappy
Copyright 2011 The Snappy-Go Authors
See https://github.com/syndtr/gosnappy/blob/master/LICENSE for license
 details.

go-zookeeper - Native ZooKeeper client for Go
https://github.com/samuel/go-zookeeper
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
See https://github.com/samuel/go-zookeeper/blob/master/LICENSE for license
 details.
---------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
```

```
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
```

```
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
---------------------------
Fourth Party Dependencies (MIT License):

Bootstrap - https://getbootstrap.com - Copyright 2011-2014 Twitter, Inc.
fuzzy - https://github.com/mattyork/fuzzy - Original written by @mattyork -
 Copyright 2012 Matt York
bootstrap-datetimepicker.js - https://github.com/Eonasdan/bootstrap-
datetimepicker - Copyright 2015 Jonathan Peterson (@Eonasdan)
moment.js - https://github.com/moment/moment/ - Copyright JS Foundation and
 other contributors
Rickshaw - https://github.com/shutterstock/rickshaw - Copyright 2011-2014 by
 Shutterstock Images, LLC
mustache.js - https://github.com/janl/mustache.js - Copyright 2009 Chris
 Wanstrath (Ruby) - Copyright 2010-2014 Jan Lehnardt (JavaScript) -
 Copyright 2010-2015 The mustache.js community
jQuery - https://jquery.org - Copyright jQuery Foundation and other
 contributors
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
----------------------------
Fourth Party Dependencies (Apache License, Version 2.0):

bootstrap3-typeahead.js - https://github.com/bassjobsen/Bootstrap-3-
Typeahead - Original written by @mdo and @fat - Copyright 2014 Bass Jobsen
 @bassjobsen
Go support for leveled logs, analogous to https://code.google.com/p/google-
glog/ - Copyright 2013 Google Inc.
Support for streaming Protocol Buffer messages for the Go language (golang)
 - https://github.com/matttproud/golang_protobuf_extensions - Copyright 2013
 Matt T. Proud

(See Apache License, Version 2.0 above)
----------------------------
Fourth Party Dependencies (3-Clause BSD License):

Protocol Buffers for Go with Gadgets - https://github.com/gogo/protobuf/ -
 Copyright (c) 2013, The GoGo Authors.
DNS library in Go - https://miek.nl/2014/august/16/go-dns-package/ -
 Copyright 2009 The Go Authors, 2011 Miek Gieben
gosnappy - a fork of code.google.com/p/snappy-go - https://github.com/
syndtr/gosnappy - Copyright 2011 The Snappy-Go Authors
go-zookeeper - Native ZooKeeper client for Go - https://github.com/samuel/
go-zookeeper - Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
may be used to endorse or promote products derived from this software
 without
```

```
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------------------------
Fourth Party Dependencies (2-Clause "Simplified" BSD License):

LevelDB key/value database in Go - https://github.com/syndtr/goleveldb -
 Copyright 2012 Suryandaru Triandana

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The PyPy Project / Component(s): PyPy 7.1.1

```
License
-----------------

Except when otherwise stated (look for LICENSE files in directories or
information at the beginning of each file) all software and documentation in
the 'rpython', 'pypy', 'ctype_configure', 'dotviewer', 'demo', 'lib_pypy',
'py', and '_pytest' directories is licensed as follows:

    The MIT License

    Permission is hereby granted, free of charge, to any person
    obtaining a copy of this software and associated documentation
    files (the "Software"), to deal in the Software without
    restriction, including without limitation the rights to use,
    copy, modify, merge, publish, distribute, sublicense, and/or
    sell copies of the Software, and to permit persons to whom the
```

```
    Software is furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
    in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
    OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
    THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
    DEALINGS IN THE SOFTWARE.


PyPy Copyright holders 2003-2017
-----------------------------------

Except when otherwise stated (look for LICENSE files or information at
the beginning of each file) the files in the 'pypy' directory are each
copyrighted by one or more of the following people and organizations:

  Armin Rigo
  Maciej Fijalkowski
  Carl Friedrich Bolz-Tereick
  Amaury Forgeot d'Arc
  Antonio Cuni
  Matti Picus
  Samuele Pedroni
  Ronan Lamy
  Alex Gaynor
  Philip Jenvey
  Brian Kearns
  Richard Plangger
  Michael Hudson
  Manuel Jacob
  David Schneider
  Holger Krekel
  Christian Tismer
  Hakan Ardo
  Benjamin Peterson
  Anders Chrigstrom
  Wim Lavrijsen
  Eric van Riet Paap
  Richard Emslie
  Alexander Schremmer
  Remi Meier
  Dan Villiom Podlaski Christiansen
  Lukas Diekmann
  Sven Hager
  Anders Lehmann
  Aurelien Campeas
  Niklaus Haldimann
  Camillo Bruni
  Laura Creighton
  Romain Guillebert
  Toon Verwaest
  Leonardo Santagada
  Seo Sanghyeon
  Ronny Pfannschmidt
  Justin Peel
  Raffael Tfirst
  David Edelsohn
```

```
  Anders Hammarquist
  Jakub Gustak
  Gregor Wegberg
  Guido Wesdorp
  Lawrence Oluyede
  Bartosz Skowron
  Daniel Roberts
  Adrien Di Mascio
  Niko Matsakis
  Alexander Hesse
  Ludovic Aubry
  Jacob Hallen
  Jason Creighton
  Mark Young
  Alex Martelli
  Spenser Bauman
  Michal Bendowski
  stian
  Jan de Mooij
  Tyler Wade
  Vincent Legoll
  Michael Foord
  Stephan Diehl
  Stefano Rivera
  Stefan Schwarzer
  Tomek Meka
  Valentino Volonghi
  Patrick Maupin
  Devin Jeanpierre
  Bob Ippolito
  Bruno Gola
  David Malcolm
  Jean-Paul Calderone
  Squeaky
  Edd Barrett
  Timo Paulssen
  Marius Gedminas
  Alexandre Fayolle
  Simon Burton
  Nicolas Truessel
  Martin Matusiak
  Laurence Tratt
  Wenzhu Man
  Konstantin Lopuhin
  John Witulski
  Greg Price
  Ivan Sichmann Freitas
  Dario Bertini
  Jeremy Thurgood
  Mark Pearse
  Simon Cross
  Tobias Pape
  Andreas Stührk
  Jean-Philippe St. Pierre
  Guido van Rossum
  Pavel Vinogradov
  Paweł Piotr Przeradowski
  William Leslie
  marky1991
  Ilya Osadchiy
  Tobias Oberstein
  Paul deGrandis
  Boris Feigin
  Taavi Burns
```

```
Adrian Kuhn
tav
Georg Brandl
Bert Freudenberg
Stian Andreassen
Wanja Saatkamp
Mike Blume
Joannah Nanjekye
Gerald Klix
Oscar Nierstrasz
Rami Chowdhury
Stefan H. Muller
Tim Felgentreff
Eugene Oden
Jeff Terrace
Henry Mason
Vasily Kuznetsov
Preston Timmons
David Ripton
Dusty Phillips
Lukas Renggli
Guenter Jantzen
Jasper Schulz
Ned Batchelder
Amit Regmi
Anton Gulenko
Sergey Matyunin
Andrew Chambers
Nicolas Chauvat
Andrew Durdin
Ben Young
Michael Schneider
Nicholas Riley
Jason Chu
Igor Trindade Oliveira
Yichao Yu
Michael Twomey
Rocco Moretti
Gintautas Miliauskas
Lucian Branescu Mihaila
anatoly techtonik
Dodan Mihai
Karl Bartel
Gabriel Lavoie
Jared Grubb
Olivier Dormond
Wouter van Heyst
Sebastian Pawluś
Brian Dorsey
Victor Stinner
Andrews Medina
Aaron Iles
Toby Watson
Daniel Patrick
Stuart Williams
Antoine Pitrou
Christian Hudon
Justas Sadzevicius
Neil Shepperd
Michael Cheng
Mikael Schönenberg
Stanislaw Halik
Berkin Ilbeyi
Gasper Zejn
```

```
Faye Zhao
Elmo Mäntynen
Anders Qvist
Corbin Simpson
Chirag Jadwani
Jonathan David Riehl
Beatrice During
Alex Perry
p_zieschang@yahoo.de
Robert Zaremba
Alan McIntyre
Alexander Sedov
Vaibhav Sood
Reuben Cummings
Attila Gobi
Alecsandru Patrascu
Christopher Pope
Tristan Arthur
Christian Tismer
Dan Stromberg
Carl Meyer
Florin Papa
Jens-Uwe Mager
Valentina Mukhamedzhanova
Stefano Parmesan
touilleMan
Marc Abramowitz
Arjun Naik
Aaron Gallagher
Alexis Daboville
Pieter Zieschang
Karl Ramm
Lukas Vacek
Omer Katz
Jacek Generowicz
Sylvain Thenault
Jakub Stasiak
Stefan Beyer
Andrew Dalke
Alejandro J. Cura
Vladimir Kryachko
Gabriel
Mark Williams
Kunal Grover
Nathan Taylor
Travis Francis Athougies
Yasir Suhail
Sergey Kishchenko
Martin Blais
Lutz Paelike
Ian Foote
Philipp Rustemeuer
Catalin Gabriel Manciu
Jacob Oscarson
Ryan Gonzalez
Kristjan Valur Jonsson
Lucio Torre
Richard Lancaster
Dan Buch
Lene Wagner
Tomo Cocoa
David Lievens
Neil Blakey-Milner
Henrik Vendelbo
```

```
Lars Wassermann
Ignas Mikalajunas
Christoph Gerum
Miguel de Val Borro
Artur Lisiecki
Toni Mattis
Laurens Van Houtven
Bobby Impollonia
Roberto De Ioris
Jeong YunWon
Christopher Armstrong
Aaron Tubbs
Vasantha Ganesh K
Jason Michalski
Markus Holtermann
Andrew Thompson
Yusei Tahara
Ruochen Huang
Fabio Niephaus
Akira Li
Gustavo Niemeyer
Rafał Gałczyński
Logan Chien
Lucas Stadler
roberto@goyle
Matt Bogosian
Yury V. Zaytsev
florinpapa
Anders Sigfridsson
Nikolay Zinov
rafalgalczynski@gmail.com
Joshua Gilbert
Anna Katrina Dominguez
Kim Jin Su
Amber Brown
Nate Bragg
Ben Darnell
Juan Francisco Cantero Hurtado
Godefroid Chappelle
Julian Berman
Michael Hudson-Doyle
Floris Bruynooghe
Stephan Busemann
Dan Colish
timo
Volodymyr Vladymyrov
Daniel Neuhäuser
Flavio Percoco
halgari
Jim Baker
Chris Lambacher
coolbutuseless@gmail.com
Mike Bayer
Rodrigo Araújo
Daniil Yarancev
OlivierBlanvillain
Jonas Pfannschmidt
Zearin
Andrey Churin
Dan Crosta
reubano@gmail.com
Julien Phalip
Roman Podoliaka
Eli Stevens
```

```
  Boglarka Vezer
  PavloKapyshin
  Tomer Chachamu
  Christopher Groskopf
  Asmo Soinio
  Antony Lee
  Jim Hunziker
  shoma hosaka
  Buck Golemon
  Iraklis D.
  JohnDoe
  yrttyr
  Michael Chermside
  Anna Ravencroft
  remarkablerocket
  Petre Vijiac
  Berker Peksag
  Christian Muirhead
  soareschen
  Matthew Miller
  Konrad Delong
  Dinu Gherman
  pizi
  James Robert
  Armin Ronacher
  Diana Popa
  Mads Kiilerich
  Brett Cannon
  aliceinwire
  Zooko Wilcox-O Hearn
  James Lan
  jiaaro
  Markus Unterwaditzer
  Kristoffer Kleine
  Graham Markall
  Dan Loewenherz
  werat
  Niclas Olofsson
  Chris Pressey
  Tobias Diaz
  Nikolaos-Digenis Karagiannis
  Kurt Griffiths
  Ben Mather
  Donald Stufft
  Dan Sanders
  Jason Madden
  Yaroslav Fedevych
  Even Wiik Thomassen
  Stefan Marr

  Heinrich-Heine University, Germany
  Open End AB (formerly AB Strakt), Sweden
  merlinux GmbH, Germany
  tismerysoft GmbH, Germany
  Logilab Paris, France
  DFKI GmbH, Germany
  Impara, Germany
  Change Maker, Sweden
  University of California Berkeley, USA
  Google Inc.
  King's College London

The PyPy Logo as used by http://speed.pypy.org and others was created
by Samuel Reis and is distributed on terms of Creative Commons Share Alike
```

```
License.

License for 'lib-python/2.7'
-----------------

Except when otherwise stated (look for LICENSE files or copyright/license
information at the beginning of each file) the files in the 'lib-python/2.7'
directory are all copyrighted by the Python Software Foundation and licensed
under the terms that you can find here: https://docs.python.org/2/
license.html

License for 'pypy/module/unicodedata/'
-----------------

The following files are from the website of The Unicode Consortium
at http://www.unicode.org/.  For the terms of use of these files, see
http://www.unicode.org/terms_of_use.html .  Or they are derived from
files from the above website, and the same terms of use apply.

    CompositionExclusions-*.txt
    EastAsianWidth-*.txt
    LineBreak-*.txt
    UnicodeData-*.txt
    UnihanNumeric-*.txt

License for 'dotviewer/font/'
-----------------

Copyright (C) 2008 The Android Open Source Project

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Detailed license information is contained in the NOTICE file in the
directory.


Licenses and Acknowledgements for Incorporated Software
-----------------

This section is an incomplete, but growing list of licenses and
acknowledgements for third-party software incorporated in the PyPy
distribution.

License for 'Tcl/Tk'
--------------------

This copy of PyPy contains library code that may, when used, result in
the Tcl/Tk library to be loaded.  PyPy also includes code that may be
regarded as being a copy of some parts of the Tcl/Tk header files.
You may see a copy of the License for Tcl/Tk in the file
`lib_pypy/_tkinter/license.terms` included here.

License for 'bzip2'
-------------------
```

```
This copy of PyPy may be linked (dynamically or statically) with the
bzip2 library.  You may see a copy of the License for bzip2/libbzip2 at

    http://www.bzip.org/1.0.5/bzip2-manual-1.0.5.html

License for 'openssl'
---------------------

This copy of PyPy may be linked (dynamically or statically) with the
openssl library.  You may see a copy of the License for OpenSSL at

    https://www.openssl.org/source/license.html

License for '_gdbm'
------------------

The _gdbm module includes code from gdbm.h, which is distributed under
the terms of the GPL license version 2 or any later version.  Thus the
_gdbm module, provided in the file lib_pypy/_gdbm.py, is redistributed
under the terms of the GPL license as well.

License for 'rpython/rlib/rvmprof/src'
--------------------------------------

The code is based on gperftools. You may see a copy of the License for it at

    https://github.com/gperftools/gperftools/blob/master/COPYING

License for 'liblzma and 'lzmaffi'
----------------------------------

This copy of PyPy may be linked (dynamically or statically) with the
liblzma library, which was put in the "public domain":

    http://tukaani.org/xz/

The cffi bindings to liblzma (in lib_pypy/_lzma.py) are derived from
the lzmaffi project which is distributed under a BSD license:

    https://pypi.python.org/pypi/lzmaffi/0.3.0
```

Provider: The PyPy Project / Component(s): PyPy 7.3.5

```
#encoding utf-8
License
--------
Except when otherwise stated (look for LICENSE files in directories
or information at the beginning of each file) all software and
documentation in the 'rpython', 'pypy', 'ctype_configure', 'dotviewer',
'demo', 'extra_tests', 'include', 'lib_pypy', 'py', and '_pytest'
directories is licensed as follows:
    The MIT License
    Permission is hereby granted, free of charge, to any person
    obtaining a copy of this software and associated documentation
    files (the "Software"), to deal in the Software without
    restriction, including without limitation the rights to use,
    copy, modify, merge, publish, distribute, sublicense, and/or
    sell copies of the Software, and to permit persons to whom the
    Software is furnished to do so, subject to the following conditions:
    The above copyright notice and this permission notice shall be included
    in all copies or substantial portions of the Software.
```

```
    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
    OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
    THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
    DEALINGS IN THE SOFTWARE.
PyPy Copyright holders 2003-2021
-------------------------------
Except when otherwise stated (look for LICENSE files or information at
the beginning of each file) the files in the 'pypy' directory are each
copyrighted by one or more of the following people and organizations:
  Armin Rigo
  Maciej Fijalkowski
  Carl Friedrich Bolz-Tereick
  Matti Picus
  Antonio Cuni
  Amaury Forgeot d'Arc
  Ronan Lamy
  Samuele Pedroni
  Alex Gaynor
  Philip Jenvey
  Richard Plangger
  Brian Kearns
  Manuel Jacob
  Michael Hudson-Doyle
  David Schneider
  Holger Krekel
  Christian Tismer
  Hakan Ardo
  Benjamin Peterson
  Wim Lavrijsen
  Anders Chrigstrom
  Eric van Riet Paap
  Dan Villiom Podlaski Christiansen
  Remi Meier
  Richard Emslie
  Alexander Schremmer
  Lukas Diekmann
  Sven Hager
  Anders Lehmann
  Aurelien Campeas
  Niklaus Haldimann
  Camillo Bruni
  Laura Creighton
  Toon Verwaest
  Leonardo Santagada
  Seo Sanghyeon
  Romain Guillebert
  Ronny Pfannschmidt
  Justin Peel
  Raffael Tfirst
  David Edelsohn
  Anders Hammarquist
  Jakub Gustak
  Gregor Wegberg
  Guido Wesdorp
  Lawrence Oluyede
  Bartosz Skowron
  Stefano Rivera
  Daniel Roberts
  Adrien Di Mascio
```

```
  Niko Matsakis
  Alexander Hesse
  Ludovic Aubry
  Batuhan Taskaya
  stian
  Jacob Hallen
  Jason Creighton
  Mark Young
  Andrew Lawrence
  Alex Martelli
  Ondrej Baranovič
  Spenser Bauman
  Michal Bendowski
  Jan de Mooij
  Stefan Beyer
  Tyler Wade
  Vincent Legoll
  Michael Foord
  Stephan Diehl
  muke101
  Simon Cross
  Jean-Paul Calderone
  Stefan Schwarzer
  Tomek Meka
  Valentino Volonghi
  Patrick Maupin
  Devin Jeanpierre
  Bob Ippolito
  Bruno Gola
  David Malcolm
  Yannick Jadoul
  Squeaky
  Timo Paulssen
  Edd Barrett
  Marius Gedminas
  Laurence Tratt
  Alexandre Fayolle
  Nicolas Truessel
  Simon Burton
  Martin Matusiak
  Konstantin Lopuhin
  Wenzhu Man
  John Witulski
  Jeremy Thurgood
  Julian Berman
  Dario Bertini
  Greg Price
  Ivan Sichmann Freitas
  Mark Pearse
  Tobias Pape
  Andreas Stührk
  Jean-Philippe St. Pierre
  Stian Andreassen
  Yusuke Izawa
  Guido van Rossum
  Pavel Vinogradov
  William Leslie
  Paweł Piotr Przeradowski
  Paul deGrandis
  Ilya Osadchiy
  Tobias Oberstein
  marky1991
  Boris Feigin
  Adrian Kuhn
```

```
tav
Taavi Burns
Joannah Nanjekye
Georg Brandl
quejebo
Vanessa Freudenberg
Michał Górny
Gerald Klix
Wanja Saatkamp
Mike Blume
Oscar Nierstrasz
Rami Chowdhury
Stefan H. Muller
Dodan Mihai
Tim Felgentreff
Eugene Oden
Colin Valliant
Henry Mason
Jeff Terrace
David Ripton
Preston Timmons
Vasily Kuznetsov
Pieter Zieschang
Lukas Renggli
Dusty Phillips
Guenter Jantzen
Amit Regmi
Ned Batchelder
Jasper Schulz
Anton Gulenko
Ben Young
Nicolas Chauvat
Andrew Durdin
Andrew Chambers
Sergey Matyunin
Łukasz Langa
Nicholas Riley
Michael Schneider
Yusuke Tsutsumi
Rocco Moretti
Gintautas Miliauskas
Michael Twomey
Igor Trindade Oliveira
Jason Chu
Yichao Yu
Lucian Branescu Mihaila
anatoly techtonik
Mariano Anaya
olliemath
Olivier Dormond
Jared Grubb
Karl Bartel
Gabriel Lavoie
Wouter van Heyst
Alecsandru Patrascu
Lin Cheng
Brian Dorsey
Victor Stinner
Andrews Medina
Sebastian Pawluś
Stuart Williams
Toby Watson
Antoine Pitrou
Aaron Iles
```

```
  Christian Hudon
  Daniel Patrick
  Justas Sadzevicius
  Gasper Zejn
  Neil Shepperd
  Mikael Schönenberg
  Michael Cheng
  Stanislaw Halik
  Berkin Ilbeyi
  Mihnea Saracin
  Matt Jackson
  Ricky Zhou
  Jonathan David Riehl
  Anders Qvist
  Beatrice During
  Elmo Mäntynen
  Corbin Simpson
  Chirag Jadwani
  Faye Zhao
  Pauli Virtanen
  Mike Pavone
  Alan McIntyre
  Alexander Sedov
  Alex Perry
  Floris Bruynooghe
  Christopher Pope
  Attila Gobi
  Vaibhav Sood
  Reuben Cummings
  Robert Zaremba
  David C Ellis
  cptpcrd
  Felix C. Stegerman
  Jens-Uwe Mager
  Dan Stromberg
  Carl Meyer
  Stefano Parmesan
  Alexis Daboville
  Christian Tismer
  Marc Abramowitz
  Arjun Naik
  Valentina Mukhamedzhanova
  Florin Papa
  Aaron Gallagher
  touilleMan
  Tristan Arthur
  Anthony Sottile
  Arianna Avanzini
  Matt Billenstein
  Sebastian Berg
  Jacek Generowicz
  Sylvain Thenault
  Alejandro J. Cura
  Andrew Dalke
  Gabriel
  Nathan Taylor
  Karl Ramm
  Vladimir Kryachko
  Lukas Vacek
  Jakub Stasiak
  Omer Katz
  Kunal Grover
  Mark Williams
  Thomas Hisch
```

```
Barry Hart
Tomasz Dziopa
Lutz Paelike
Ignas Mikalajunas
Martin Blais
Jacob Oscarson
Lene Wagner
Lucio Torre
Henrik Vendelbo
Artur Lisiecki
Travis Francis Athougies
Miguel de Val Borro
Kristjan Valur Jonsson
Christoph Gerum
Yasir Suhail
Tomo Cocoa
Neil Blakey-Milner
Dan Buch
Lars Wassermann
Sergey Kishchenko
Ryan Gonzalez
Ian Foote
David Lievens
Richard Lancaster
Philipp Rustemeuer
Logan Chien
Catalin Gabriel Manciu
Miro Hrončok
Antoine Dupre
Bernd Schoeller
Catalin Fierut
nimaje
Pierre-Yves DAVID
Gustavo Niemeyer
Andrew Thompson
Joshua Gilbert
Yusei Tahara
Christopher Armstrong
Anders Sigfridsson
Stephan Busemann
Godefroid Chappelle
Dan Colish
Akira Li
Bobby Impollonia
roberto@goyle
Roberto De Ioris
timo
Anna Katrina Dominguez
Juan Francisco Cantero Hurtado
Ben Darnell
Rafał Gałczyński
Yury V. Zaytsev
Laurens Van Houtven
rafalgalczynski@gmail.com
Jason Michalski
Toni Mattis
Lucas Stadler
Jeong YunWon
Ruochen Huang
Markus Holtermann
Kim Jin Su
Matt Bogosian
Aaron Tubbs
Amber Brown
```

```
Nikolay Zinov
florinpapa
Vasantha Ganesh K
Fabio Niephaus
Nate Bragg
afteryu
Andrew Stepanov
Radu Ciorba
Carl Bordum Hansen
Paul Ganssle
Michal Kuffa
joachim-ballmann@bitbucket.org
Vincent Michel
Ram Rachum
Bystroushaak
Ryan Hileman
joserubiovidales@gmail.com
dakarpov@gmail.com
Sreepathi Pai
Georges Racinet
Bolutife Ogunsola
ashwinahuja
cjmcdonald@google.com
Alex Orange
alexprengere
Dennis Sweeney
Kevin Lee
Anna Ravencroft
Dinu Gherman
Michael Chermside
Jim Baker
Zooko Wilcox-O Hearn
Daniel Neuhäuser
Konrad Delong
Rodrigo Araújo
Armin Ronacher
Jim Hunziker
Christian Muirhead
Brett Cannon
Chris Lambacher
Dan Loewenherz
coolbutuseless@gmail.com
Christopher Groskopf
Buck Golemon
soareschen
Even Wiik Thomassen
Antony Lee
James Lan
yrttyr
Kristoffer Kleine
Julien Phalip
shoma hosaka
Tomer Chachamu
Flavio Percoco
Markus Unterwaditzer
Mike Bayer
OlivierBlanvillain
jiaaro
James Robert
aliceinwire
Kurt Griffiths
Matthew Miller
Asmo Soinio
Stefan Marr
```

```
Boglarka Vezer
Mads Kiilerich
Dan Crosta
Dan Sanders
Ben Mather
Chris Pressey
halgari
Berker Peksag
Roman Podoliaka
Nikolaos-Digenis Karagiannis
Donald Stufft
Volodymyr Vladymyrov
Andrey Churin
Niclas Olofsson
Yaroslav Fedevych
Zearin
Tobias Diaz
Jason Madden
Jonas Pfannschmidt
werat
JohnDoe
Diana Popa
Eli Stevens
pizi
remarkablerocket
reubano@gmail.com
Daniil Yarancev
PavloKapyshin
Graham Markall
Stanisław Halik
Iraklis D.
Petre Vijiac
Min RK
Caleb Hattingh
Steve Papanik
m@funkyhat.org
Tomáš Pružina
gabrielg@ec2-54-146-239-158.compute-1.amazonaws.com
Filip Salomonsson
Johan Forsberg
Evgenii Gorinov
John Aldis
Hervé Beraud
Paul Graydon
whitequark
DeVerne Jones
Zsolt Cserna
Yasen Kiprov
mkuffa
Ivan
Jesdi
paugier
bernd.schoeller@inf.ethz.ch
Sam Edwards
Ihar Shabes
kotus9
mark doerr
Tomas Hrnciar
Joannah Nanjekye nanjekyejoannah@gmail.com
Alex Kashirin
Mike Kaplinskiy
Henri Tuhola
shaolo1
Chris AtLee
```

```
  Christoph Reiter
  Chris Burr
  Brad Kish
  Heinrich-Heine University, Germany
  Open End AB (formerly AB Strakt), Sweden
  merlinux GmbH, Germany
  tismerysoft GmbH, Germany
  Logilab Paris, France
  DFKI GmbH, Germany
  Impara, Germany
  Change Maker, Sweden
  University of California Berkeley, USA
  Google Inc.
  King's College London
The PyPy Logo as used by http://speed.pypy.org and others was created
by Samuel Reis and is distributed on terms of Creative Commons Share Alike
License.
License for 'lib-python/2.7, lib-python/3'
==========================================
Except when otherwise stated (look for LICENSE files or copyright/license
information at the beginning of each file) the files in the 'lib-python'
directory are all copyrighted by the Python Software Foundation and licensed
under the terms that you can find here: https://docs.python.org/3/
license.html
License for 'pypy/module/unicodedata/'
======================================
The following files are from the website of The Unicode Consortium
at http://www.unicode.org/.  For the terms of use of these files, see
http://www.unicode.org/terms_of_use.html .  Or they are derived from
files from the above website, and the same terms of use apply.
    CompositionExclusions-*.txt
    EastAsianWidth-*.txt
    LineBreak-*.txt
    UnicodeData-*.txt
    UnihanNumeric-*.txt
License for 'dotviewer/font/'
=============================
Copyright (C) 2008 The Android Open Source Project
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
     http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Detailed license information is contained in the NOTICE file in the
directory.
Licenses and Acknowledgements for Incorporated Software
=======================================================
This section is an incomplete, but growing list of licenses and
acknowledgements for third-party software incorporated in the PyPy
distribution.
License for 'Tcl/Tk'
---------------------
This copy of PyPy contains library code that may, when used, result in
the Tcl/Tk library to be loaded.  PyPy also includes code that may be
regarded as being a copy of some parts of the Tcl/Tk header files.
You may see a copy of the License for Tcl/Tk in the file
`lib_pypy/_tkinter/license.terms` included here.
License for 'bzip2'
-------------------
This copy of PyPy may be linked (dynamically or statically) with the
```

```
bzip2 library.  You may see a copy of the License for bzip2/libbzip2 at
    http://www.bzip.org/1.0.5/bzip2-manual-1.0.5.html
License for 'openssl'
---------------------
This copy of PyPy may be linked (dynamically or statically) with the
openssl library.  You may see a copy of the License for OpenSSL at
    https://www.openssl.org/source/license.html
License for 'gdbm'
------------------
The gdbm module includes code from gdbm.h, which is distributed under
the terms of the GPL license version 2 or any later version.  Thus the
gdbm module, provided in the file lib_pypy/gdbm.py, is redistributed
under the terms of the GPL license as well.
License for 'rpython/rlib/rvmprof/src'
--------------------------------------
The code is based on gperftools. You may see a copy of the License for it at
    https://github.com/gperftools/gperftools/blob/master/COPYING
License for 'liblzma and 'lzmaffi'
----------------------------------
This copy of PyPy may be linked (dynamically or statically) with the
liblzma library, which was put in the "public domain":
    http://tukaani.org/xz/
The cffi bindings to liblzma (in lib_pypy/_lzma.py) are derived from
the lzmaffi project which is distributed under a BSD license:
    https://pypi.python.org/pypi/lzmaffi/0.3.0
===============================================================
In addition to the above, various files in the following directories of the
 package are under open source licenses
./rpython/translator/c/src/libffi_msvc - MIT - forked from Python 2.6a3
./rpython/rlib/rvmprof/src/ - BSD
./rpython/tool/ - BSD
./pypy/module/cppyy/src - LGPL v2.1
./pypy/interpreter/astcompiler/tools - LGPL v2.1
```

Provider: The Regents of the University of California / Component(s): queue.h 8.5 Release 5.1.0

```
# $FreeBSD$
# @(#)COPYRIGHT 8.2 (Berkeley) 3/21/94

All of the documentation and software included in the 4.4BSD and 4.4BSD-Lite
Releases is copyrighted by The Regents of the University of California.

Copyright 1979, 1980, 1983, 1986, 1988, 1989, 1991, 1992, 1993, 1994
 The Regents of the University of California.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
   must display the following acknowledgement:
This product includes software developed by the University of
California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The Institute of Electrical and Electronics Engineers and the American
National Standards Committee X3, on Information Processing Systems have
given us permission to reprint portions of their documentation.

In the following statement, the phrase ``this text'' refers to portions
of the system documentation.

Portions of this text are reprinted and reproduced in electronic form in
the second BSD Networking Software Release, from IEEE Std 1003.1-1988, IEEE
Standard Portable Operating System Interface for Computer Environments
(POSIX), copyright C 1988 by the Institute of Electrical and Electronics
Engineers, Inc.  In the event of any discrepancy between these versions
and the original IEEE Standard, the original IEEE Standard is the referee
document.

In the following statement, the phrase ``This material'' refers to portions
of the system documentation.

This material is reproduced with permission from American National
Standards Committee X3, on Information Processing Systems.  Computer and
Business Equipment Manufacturers Association (CBEMA), 311 First St., NW,
Suite 500, Washington, DC 20001-2178.  The developmental work of
Programming Language C was completed by the X3J11 Technical Committee.

The views and conclusions contained in the software and documentation are
those of the authors and should not be interpreted as representing official
policies, either expressed or implied, of the Regents of the University
of California.


NOTE: The copyright of UC Berkeley's Berkeley Software Distribution ("BSD")
source has been updated.  The copyright addendum may be found at
ftp://ftp.cs.berkeley.edu/pub/4bsd/README.Impt.License.Change and is
included below.

July 22, 1999

To All Licensees, Distributors of Any Version of BSD:

As you know, certain of the Berkeley Software Distribution ("BSD") source
code files require that further distributions of products containing all or
portions of the software, acknowledge within their advertising materials
that such products contain software developed by UC Berkeley and its
contributors.

Specifically, the provision reads:

"     * 3. All advertising materials mentioning features or use of this
 software
      *    must display the following acknowledgement:
      *    This product includes software developed by the University of
      *    California, Berkeley and its contributors."
```

```
Effective immediately, licensees and distributors are no longer required to
include the acknowledgement within advertising materials.  Accordingly, the
foregoing paragraph of those BSD Unix files containing it is hereby deleted
in its entirety.

William Hoskins
Director, Office of Technology Licensing
University of California, Berkeley
```

Provider: The Rust Project Developers / Component(s): rust 1.18.0

```
== LICENSE-MIT ========================================================
Copyright (c) 2010 The Rust Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


The Rust Project is copyright 2010, The Rust Project
Developers.

Licensed under the MIT
license <LICENSE-MIT or http://opensource.org/licenses/MIT>.
 All files in the project carrying such
notice may not be copied, modified, or distributed except
according to those terms.


The Rust Project includes packages written by third parties.
The following third party packages are included, and carry
their own copyright notices and license terms:

* The src/rt/miniz.c file, carrying an implementation of
  RFC1950/RFC1951 DEFLATE, by Rich Geldreich
  <richgel99@gmail.com>. All uses of this file are
  permitted by the embedded "unlicense" notice
  (effectively: public domain with warranty disclaimer).

* LLVM. Code for this package is found in src/llvm.
```

```
    Copyright (c) 2003-2013 University of Illinois at
    Urbana-Champaign.  All rights reserved.

    Developed by:

        LLVM Team

        University of Illinois at Urbana-Champaign

        http://llvm.org

    Permission is hereby granted, free of charge, to any
    person obtaining a copy of this software and associated
    documentation files (the "Software"), to deal with the
    Software without restriction, including without
    limitation the rights to use, copy, modify, merge,
    publish, distribute, sublicense, and/or sell copies of
    the Software, and to permit persons to whom the Software
    is furnished to do so, subject to the following
    conditions:

        * Redistributions of source code must retain the
          above copyright notice, this list of conditions
          and the following disclaimers.

        * Redistributions in binary form must reproduce the
          above copyright notice, this list of conditions
          and the following disclaimers in the documentation
          and/or other materials provided with the
          distribution.

        * Neither the names of the LLVM Team, University of
          Illinois at Urbana-Champaign, nor the names of its
          contributors may be used to endorse or promote
          products derived from this Software without
          specific prior written permission.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
    ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
    TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
    PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT
    SHALL THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE
    FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
    ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
    OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
    OTHER DEALINGS WITH THE SOFTWARE.

* Additional libraries included in LLVM carry separate
  BSD-compatible licenses. See src/llvm/LICENSE.txt for
  details.

* compiler-rt, in src/compiler-rt is dual licensed under
  LLVM's license and MIT:

    Copyright (c) 2009-2014 by the contributors listed in
    CREDITS.TXT

    All rights reserved.

    Developed by:

        LLVM Team

        University of Illinois at Urbana-Champaign
```

```
    http://llvm.org

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal with the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

    * Redistributions of source code must retain the
      above copyright notice, this list of conditions
      and the following disclaimers.

    * Redistributions in binary form must reproduce the
      above copyright notice, this list of conditions
      and the following disclaimers in the documentation
      and/or other materials provided with the
      distribution.

    * Neither the names of the LLVM Team, University of
      Illinois at Urbana-Champaign, nor the names of its
      contributors may be used to endorse or promote
      products derived from this Software without
      specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT
SHALL THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS WITH THE SOFTWARE.

==============================================================

Copyright (c) 2009-2014 by the contributors listed in
CREDITS.TXT

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
```

```
    OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
    IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
    DEALINGS IN THE SOFTWARE.

* Portions of the FFI code for interacting with the native ABI
  is derived from the Clay programming language, which carries
  the following license.

    Copyright (C) 2008-2010 Tachyon Technologies.
    All rights reserved.

    Redistribution and use in source and binary forms, with
    or without modification, are permitted provided that the
    following conditions are met:

    1. Redistributions of source code must retain the above
       copyright notice, this list of conditions and the
       following disclaimer.

    2. Redistributions in binary form must reproduce the
       above copyright notice, this list of conditions and
       the following disclaimer in the documentation and/or
       other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR
    IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
    PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
    DEVELOPERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
    INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
    USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
    CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
    USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
    OF SUCH DAMAGE.

* Hoedown, the markdown parser, under src/rt/hoedown, is
  licensed as follows.

    Copyright (c) 2008, Natacha Porté
    Copyright (c) 2011, Vicent Martí
    Copyright (c) 2013, Devin Torres and the Hoedown authors

    Permission to use, copy, modify, and distribute this
    software for any purpose with or without fee is hereby
    granted, provided that the above copyright notice and
    this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR
    DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE
    INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
    FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
    SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR
    ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA
    OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
    OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
    CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

* libbacktrace, under src/libbacktrace:

    Copyright (C) 2012-2014 Free Software Foundation, Inc.
```

```
    Written by Ian Lance Taylor, Google.

    Redistribution and use in source and binary forms, with
    or without modification, are permitted provided that the
    following conditions are met:

        (1) Redistributions of source code must retain the
        above copyright notice, this list of conditions and
        the following disclaimer.

        (2) Redistributions in binary form must reproduce
        the above copyright notice, this list of conditions
        and the following disclaimer in the documentation
        and/or other materials provided with the
        distribution.

        (3) The name of the author may not be used to
        endorse or promote products derived from this
        software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
    AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
    NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
    INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
    USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
    CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
    USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
    OF SUCH DAMAGE.  */

* jemalloc, under src/jemalloc:

    Copyright (C) 2002-2014 Jason Evans
    <jasone@canonware.com>. All rights reserved.
    Copyright (C) 2007-2012 Mozilla Foundation.
    All rights reserved.
    Copyright (C) 2009-2014 Facebook, Inc.
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
 met:
    1. Redistributions of source code must retain the above copyright
 notice(s),
       this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
 notice(s),
       this list of conditions and the following disclaimer in the
 documentation
       and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER(S)
    ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
    INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
    DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT HOLDER(S)
    BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
    LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
```

```
    LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
    IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
    USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
    OF SUCH DAMAGE.

* Additional copyright may be retained by contributors other
  than Mozilla, the Rust Project Developers, or the parties
  enumerated in this file. Such copyright can be determined
  on a case-by-case basis by examining the author of each
  portion of a file in the revision-control commit records
  of the project, or by consulting representative comments
  claiming copyright ownership for a file.

  For example, the text:

      "Copyright (c) 2011 Google Inc."

  appears in some files, and these files thereby denote
  that their author and copyright-holder is Google Inc.

  In all such cases, the absence of explicit licensing text
  indicates that the contributor chose to license their work
  for distribution under identical terms to those Mozilla
  has chosen for the collective work, enumerated at the top
  of this file. The only difference is the retention of
  copyright itself, held by the contributor.

== src/rt/miniz.c
 ================================================================
  This is free and unencumbered software released into the public domain.

  Anyone is free to copy, modify, publish, use, compile, sell, or
  distribute this software, either in source code form or as a compiled
  binary, for any purpose, commercial or non-commercial, and by any
  means.

  In jurisdictions that recognize copyright laws, the author or authors
  of this software dedicate any and all copyright interest in the
  software to the public domain. We make this dedication for the benefit
  of the public at large and to the detriment of our heirs and
  successors. We intend this dedication to be an overt act of
  relinquishment in perpetuity of all present and future rights to this
  software under copyright law.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
  EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
  IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
  OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
  ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
  OTHER DEALINGS IN THE SOFTWARE.

  For more information, please refer to <http://unlicense.org/>

== src/llvm/lib/Support/COPYRIGHT.regex
 ========================================
Copyright 1992, 1993, 1994 Henry Spencer.  All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
```

```
to the following restrictions:

1. The author is not responsible for the consequences of use of this
   software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
   explicit claim or by omission.  Since few users ever read sources,
   credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
   misrepresented as being the original software.  Since few users
   ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

Copyright (c) 1994
     The Regents of the University of California.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

== src/llvm/lib/Target/ARM/LICENSE.TXT
 ==========================================
ARM Limited

Software Grant License Agreement ("Agreement")

Except for the license granted herein to you, ARM Limited ("ARM") reserves
 all
right, title, and interest in and to the Software (defined below).

Definition

"Software" means the code and documentation as well as any original work of
authorship, including any modifications or additions to an existing work,
 that
is intentionally submitted by ARM to llvm.org (http://llvm.org) ("LLVM") for
inclusion in, or documentation of, any of the products owned or managed by
 LLVM
(the "Work"). For the purposes of this definition, "submitted" means any
 form of
```

```
electronic, verbal, or written communication sent to LLVM or its
representatives, including but not limited to communication on electronic
mailing lists, source code control systems, and issue tracking systems that
 are
managed by, or on behalf of, LLVM for the purpose of discussing and
 improving
the Work, but excluding communication that is conspicuously marked
 otherwise.

1. Grant of Copyright License. Subject to the terms and conditions of this
   Agreement, ARM hereby grants to you and to recipients of the Software
   distributed by LLVM a perpetual, worldwide, non-exclusive, no-charge,
   royalty-free, irrevocable copyright license to reproduce, prepare
 derivative
   works of, publicly display, publicly perform, sublicense, and distribute
 the
   Software and such derivative works.

2. Grant of Patent License. Subject to the terms and conditions of this
   Agreement, ARM hereby grants you and to recipients of the Software
   distributed by LLVM a perpetual, worldwide, non-exclusive, no-charge,
   royalty-free, irrevocable (except as stated in this section) patent
 license
   to make, have made, use, offer to sell, sell, import, and otherwise
 transfer
   the Work, where such license applies only to those patent claims
 licensable
   by ARM that are necessarily infringed by ARM's Software alone or by
   combination of the Software with the Work to which such Software was
   submitted. If any entity institutes patent litigation against ARM or any
   other entity (including a cross-claim or counterclaim in a lawsuit)
 alleging
   that ARM's Software, or the Work to which ARM has contributed constitutes
   direct or contributory patent infringement, then any patent licenses
 granted
   to that entity under this Agreement for the Software or Work shall
 terminate
   as of the date such litigation is filed.

Unless required by applicable law or agreed to in writing, the software is
provided on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
either express or implied, including, without limitation, any warranties or
conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE.

== src/llvm/lib/Support/MD5.{cpp,h}
 ==========================================
This software was written by Alexander Peslyak in 2001.  No copyright is
claimed, and the software is hereby placed in the public domain.
In case this attempt to disclaim copyright and place the software in the
public domain is deemed null and void, then the software is
Copyright (c) 2001 Alexander Peslyak and it is hereby released to the
general public under the following terms:

Redistribution and use in source and binary forms, with or without
modification, are permitted.

There's ABSOLUTELY NO WARRANTY, express or implied.

== src/compiler-rt/CREDITS.txt
 ==================================================
Craig van Vliet <cvanvliet@auroraux.org>
Edward O'Callaghan <eocallaghan@auroraux.org>
Howard Hinnant <hhinnant@apple.com>
```

```
Guan-Hong Liu <koviankevin@hotmail.com>
Joerg Sonnenberger <joerg@NetBSD.org>
Matt Thomas <matt@NetBSD.org>

== src/librustdoc/html/static/*.woff
 ==========================================
* Fira Sans (FiraSans-Regular.woff, FiraSans-Medium.woff):

    Copyright (c) 2014, Mozilla Foundation https://mozilla.org/
    with Reserved Font Name Fira Sans.

    Copyright (c) 2014, Telefonica S.A.

    Licensed under the SIL Open Font License, Version 1.1.
    See FiraSans-LICENSE.txt.

* Heuristica (Heuristica-Italic.woff):

    Copyright 1989, 1991 Adobe Systems Incorporated. All rights reserved.
    Utopia is either a registered trademark or trademark of Adobe Systems
    Incorporated in the United States and/or other countries. Used under
    license.

    Copyright 2006 Han The Thanh, Vntopia font family, http://vntex.sf.net

    Copyright (c) 2008-2012, Andrey V. Panov (panov@canopus.iacp.dvo.ru),
    with Reserved Font Name Heuristica.

    Licensed under the SIL Open Font License, Version 1.1.
    See Heuristica-LICENSE.txt.

* Source Code Pro (SourceCodePro-Regular.woff, SourceCodePro-Semibold.woff):

    Copyright 2010, 2012 Adobe Systems Incorporated (http://www.adobe.com/),
    with Reserved Font Name 'Source'. All Rights Reserved. Source is a
 trademark
    of Adobe Systems Incorporated in the United States and/or other
 countries.

    Licensed under the SIL Open Font License, Version 1.1.
    See SourceCodePro-LICENSE.txt.

* Source Serif Pro (SourceSerifPro-Regular.woff, SourceSerifPro-Bold.woff):

    Copyright 2014 Adobe Systems Incorporated (http://www.adobe.com/), with
    Reserved Font Name 'Source'. All Rights Reserved. Source is a trademark
 of
    Adobe Systems Incorporated in the United States and/or other countries.

    Licensed under the SIL Open Font License, Version 1.1.
    See SourceSerifPro-LICENSE.txt.

-----------------------------------------------------------
SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007
-----------------------------------------------------------

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide
development of collaborative font projects, to support the font creation
efforts of academic and linguistic communities, and to provide a free and
open framework in which fonts may be shared and improved in partnership
with others.

The OFL allows the licensed fonts to be used, studied, modified and
```

```
redistributed freely as long as they are not sold by themselves. The
fonts, including any derivative works, can be bundled, embedded,
redistributed and/or sold with any software provided that any reserved
names are not used by derivative works. The fonts and derivatives,
however, cannot be released under any other type of license. The
requirement for fonts to remain under this license does not apply
to any document created using the fonts or their derivatives.

DEFINITIONS
"Font Software" refers to the set of files released by the Copyright
Holder(s) under this license and clearly marked as such. This may
include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the
copyright statement(s).

"Original Version" refers to the collection of Font Software components as
distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting,
or substituting -- in part or in whole -- any of the components of the
Original Version, by changing formats or by porting the Font Software to a
new environment.

"Author" refers to any designer, engineer, programmer, technical
writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining
a copy of the Font Software, to use, study, copy, merge, embed, modify,
redistribute, and sell modified and unmodified copies of the Font
Software, subject to the following conditions:

1) Neither the Font Software nor any of its individual components,
in Original or Modified Versions, may be sold by itself.

2) Original or Modified Versions of the Font Software may be bundled,
redistributed and/or sold with any software, provided that each copy
contains the above copyright notice and this license. These can be
included either as stand-alone text files, human-readable headers or
in the appropriate machine-readable metadata fields within text or
binary files as long as those fields can be easily viewed by the user.

3) No Modified Version of the Font Software may use the Reserved Font
Name(s) unless explicit written permission is granted by the corresponding
Copyright Holder. This restriction only applies to the primary font name as
presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font
Software shall not be used to promote, endorse or advertise any
Modified Version, except to acknowledge the contribution(s) of the
Copyright Holder(s) and the Author(s) or with their explicit written
permission.

5) The Font Software, modified or unmodified, in part or in whole,
must be distributed entirely under this license, and must not be
distributed under any other license. The requirement for fonts to
remain under this license does not apply to any document created
using the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are
not met.
```

```
DISCLAIMER
THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE
COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL
DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM
OTHER DEALINGS IN THE FONT SOFTWARE.

== src/librustdoc/html/static/jquery-2.1.4.min.js
 ==============================
Copyright 2014 jQuery Foundation and other contributors
http://jquery.com/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

== src/librustdoc/html/static/normalize.css
 ====================================
Copyright (c) Nicolas Gallagher and Jonathan Neal

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: The Rust Project Developers / Component(s): rust-getopts 0.2.14

```
Dual licensed under MIT/APACHE:
Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and
```

```
(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
```

```
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: The Rust Project Developers / Component(s): rust-glob 0.2.11

```
Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
```

```
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: The Rust Project Developers / Component(s): rust-libc 0.2.21

```
rust-libc is dual licensed under the MIT license and the Apache 2.0 license.
  Oracle elects the MIT license.

Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: The Rust Project Developers / Component(s): rust-log 0.3.6

```
Dual licensed under MIT/APACHE:
Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
```

```
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
```

```
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
```

```
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.
```

```
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: The Rust Project Developers / Component(s): rust-num-traits 0.1.36

```
Dual licensed under MIT/APACHE:
Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
```

```
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
```

```
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: The Rust Project Developers / Component(s): rust-scopeguard 0.3.2

```
rust-scopeguard, Version 0.3.2 is dual licensed under the MIT and Apache 2.0
 licenses.  Oracle elects the MIT license.

Copyright (c) 2015 The Rust Project Developers
```

```
Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: The Rust Project Developers / Component(s): rust-serde 0.9.13

```
This project is originally Dual licensed under MIT/APACHE. It is supplied to
 you under the MIT license.
Copyright (c) 2014 The Rust Project Developers

Permission is hereby granted, free of charge, to any
person obtaining a copy of this software and associated

documentation files (the "Software"), to deal in the
Software without restriction, including without
limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions
of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT
SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
```

Provider: The Sphinx team / Component(s): sphinx 1.8.3

```
Sphinx 1.8.3
```

```
sphinx 1.8.3
COPYRIGHT and LICENSE:
License for Sphinx
==================

Copyright (c) 2007-2018 by the Sphinx team (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Licenses for incorporated software
==================================

The included smartypants module, included as sphinx.util.smartypants,
is available under the following license:

----------------------------------------------------------------------
SmartyPants_ license::

    Copyright (c) 2003 John Gruber
    (https://daringfireball.net/projects/smartypants/)
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    *   Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

    *   Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the following
        disclaimer in the documentation and/or other materials
        provided with the distribution.

    *   Neither the name "SmartyPants" nor the names of its
        contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

    This software is provided by the copyright holders and
    contributors "as is" and any express or implied warranties,
```

```
    including, but not limited to, the implied warranties of
    merchantability and fitness for a particular purpose are
    disclaimed. In no event shall the copyright owner or contributors
    be liable for any direct, indirect, incidental, special,
    exemplary, or consequential damages (including, but not limited
    to, procurement of substitute goods or services; loss of use,
    data, or profits; or business interruption) however caused and on
    any theory of liability, whether in contract, strict liability, or
    tort (including negligence or otherwise) arising in any way out of
    the use of this software, even if advised of the possibility of
    such damage.


smartypants.py license::

    smartypants.py is a derivative work of SmartyPants.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    *   Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

    *   Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the following
        disclaimer in the documentation and/or other materials
        provided with the distribution.

    This software is provided by the copyright holders and
    contributors "as is" and any express or implied warranties,
    including, but not limited to, the implied warranties of
    merchantability and fitness for a particular purpose are
    disclaimed. In no event shall the copyright owner or contributors
    be liable for any direct, indirect, incidental, special,
    exemplary, or consequential damages (including, but not limited
    to, procurement of substitute goods or services; loss of use,
    data, or profits; or business interruption) however caused and on
    any theory of liability, whether in contract, strict liability, or
    tort (including negligence or otherwise) arising in any way out of
    the use of this software, even if advised of the possibility of
    such damage.
-----------------------------------------------------------------------

The included JQuery JavaScript library is available under the MIT
license:

-----------------------------------------------------------------------
Copyright (c) 2008 John Resig, https://jquery.com/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
```

```
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-----------------------------------------------------------------------

The included Underscore JavaScript library is available under the MIT
license:

-----------------------------------------------------------------------
Copyright (c) 2009 Jeremy Ashkenas, DocumentCloud

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------------------------

The included implementation of
 NumpyDocstring._parse_numpydoc_see_also_section
was derived from code under the following license:

-------------------------------------------------------------------------------

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli
 Virtanen <pav@iki.fi>

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
```

```
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------



==================================
4P Dependencies:


six>=1.5
COPYRIGHT and LICENSE:
Copyright (c) 2010-2018 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


---
Jinja2>=2.3
COPYRIGHT and LICENSE:
Copyright (c) 2009 by the Jinja Team, see AUTHORS for more details.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.

    * The names of the contributors may not be used to endorse or
      promote products derived from this software without specific
      prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
Pygments>=2.0

COPYRIGHT and LICENSE:
Copyright (c) 2006-2014 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
docutils>=0.11

COPYRIGHT and LICENSE:
==================
 Copying Docutils
==================

:Author: David Goodger
:Contact: goodger@python.org
:Date: $Date$
:Web site: http://docutils.sourceforge.net/
:Copyright: This document has been placed in the public domain.

Most of the files included in this project have been placed in the
public domain, and therefore have no license requirements and no
restrictions on copying or usage; see the `Public Domain Dedication`_
below.  There are a few exceptions_, listed below.
Files in the Sandbox_ are not distributed with Docutils releases and
```

```
may have different license terms.


Public Domain Dedication
========================

The persons who have associated their work with this project (the
"Dedicator": David Goodger and the many contributors to the Docutils
project) hereby dedicate the entire copyright, less the exceptions_
listed below, in the work of authorship known as "Docutils" identified
below (the "Work") to the public domain.

The primary repository for the Work is the Internet World Wide Web
site <http://docutils.sourceforge.net/>.  The Work consists of the
files within the "docutils" module of the Docutils project Subversion
repository (Internet host docutils.svn.sourceforge.net, filesystem path
/svnroot/docutils), whose Internet web interface is located at
<http://docutils.svn.sourceforge.net/viewvc/docutils/>.  Files dedicated to
 the
public domain may be identified by the inclusion, near the beginning
of each file, of a declaration of the form::

    Copyright: This document/module/DTD/stylesheet/file/etc. has been
               placed in the public domain.

Dedicator makes this dedication for the benefit of the public at large
and to the detriment of Dedicator's heirs and successors.  Dedicator
intends this dedication to be an overt act of relinquishment in
perpetuity of all present and future rights under copyright law,
whether vested or contingent, in the Work.  Dedicator understands that
such relinquishment of all rights includes the relinquishment of all
rights to enforce (by lawsuit or otherwise) those copyrights in the
Work.

Dedicator recognizes that, once placed in the public domain, the Work
may be freely reproduced, distributed, transmitted, used, modified,
built upon, or otherwise exploited by anyone for any purpose,
commercial or non-commercial, and in any way, including by methods
that have not yet been invented or conceived.

(This dedication is derived from the text of the `Creative Commons
Public Domain Dedication`. [#]_)

.. [#] Creative Commons has `retired this legal tool`__ and does not
   recommend that it be applied to works: This tool is based on United
   States law and may not be applicable outside the US. For dedicating new
   works to the public domain, Creative Commons recommend the replacement
   Public Domain Dedication CC0_ (CC zero, "No Rights Reserved"). So does
   the Free Software Foundation in its license-list_.

   __  http://creativecommons.org/retiredlicenses
   .. _CC0: http://creativecommons.org/about/cc0

Exceptions
==========

The exceptions to the `Public Domain Dedication`_ above are:

* docutils/writers/s5_html/themes/default/iepngfix.htc:

      IE5.5+ PNG Alpha Fix v1.0 by Angus Turnbull
      <http://www.twinhelix.com>.  Free usage permitted as long as
      this notice remains intact.
```

```
* docutils/utils/math/__init__.py,
  docutils/utils/math/latex2mathml.py,
  docutils/writers/xetex/__init__.py,
  docutils/writers/latex2e/docutils-05-compat.sty,
  docs/user/docutils-05-compat.sty.txt,
  docutils/utils/error_reporting.py,
  docutils/test/transforms/test_smartquotes.py:

  Copyright © Günter Milde.
  Released under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

* docutils/utils/smartquotes.py

  Copyright © 2011 Günter Milde,
  based on `SmartyPants`_ © 2003 John Gruber
  (released under a 3-Clause BSD license included in the file)
  and smartypants.py © 2004, 2007 Chad Miller.
  Released under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

  .. _SmartyPants: http://daringfireball.net/projects/smartypants/

* docutils/utils/math/math2html.py,
  docutils/writers/html4css1/math.css

  Copyright © Alex Fernández
  These files are part of eLyXer_, released under the `GNU
  General Public License`_ version 3 or later. The author relicensed
  them for Docutils under the terms of the `2-Clause BSD license`_
  (`local copy <licenses/BSD-2-Clause.txt>`__).

  .. _eLyXer: http://www.nongnu.org/elyxer/

* extras/roman.py, copyright by Mark Pilgrim, released under the
  `Python 2.1.1 license`_ (`local copy`__).

  __ licenses/python-2-1-1.txt

* tools/editors/emacs/rst.el, copyright by Free Software Foundation,
  Inc., released under the `GNU General Public License`_ version 3 or
  later (`local copy`__).

  __ licenses/gpl-3-0.txt

The `2-Clause BSD license`_ and the Python licenses are OSI-approved_
and GPL-compatible_.

Plaintext versions of all the linked-to licenses are provided in the
licenses_ directory.

.. _sandbox: http://docutils.sourceforge.net/sandbox/README.html
.. _licenses: licenses/
.. _Python 2.1.1 license: http://www.python.org/2.1.1/license.html
.. _GNU General Public License: http://www.gnu.org/copyleft/gpl.html
.. _2-Clause BSD license: http://www.spdx.org/licenses/BSD-2-Clause
.. _OSI-approved: http://opensource.org/licenses/
.. _license-list:
.. _GPL-compatible: http://www.gnu.org/licenses/license-list.html



---
snowballstemmer>=1.1
```

```
COPYRIGHT and LICENSE:
Copyright (c) 2013, Yoshiki Shibukawa

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided
that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and
  the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions
  and the following disclaimer in the documentation and/or other materials
 provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 COPYRIGHT HOLDER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
babel>=1.3,!=2.0
COPYRIGHT and LICENSE:
Copyright (c) 2013-2018 by the Babel Team, see AUTHORS for more information.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.
 3. The name of the author may not be used to endorse or promote
    products derived from this software without specific prior
    written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
```

```
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---
alabaster>=0.7,<0.8
COPYRIGHT and LICENSE:
Copyright (c) 2018 Jeff Forcier.

Based on original work copyright (c) 2011 Kenneth Reitz and copyright (c)
 2010
Armin Ronacher.

Some rights reserved.

Redistribution and use in source and binary forms of the theme, with or
without modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* The names of the contributors may not be used to endorse or
  promote products derived from this software without specific
  prior written permission.

THIS THEME IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS THEME, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.



---
imagesize v1.1.0 (MIT)
Copyright © 2016 Yoshiki Shibukawa

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software
and associated documentation files (the “Software”), to deal in the Software
 without restriction,
including without limitation the rights to use, copy, modify, merge,
 publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial
portions of the Software.
```

```
THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT
NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
 PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
 DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
 IN CONNECTION WITH
THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



---
requests>=2.0.0
COPYRIGHT and LICENSE:
Copyright 2018 Kenneth Reitz

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


---
setuptools v40.6.3
COPYRIGHT and LICENSE:
Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---
packaging v16.8
```

```
COPYRIGHT and LICENSE:
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.
This distribution elects to distribute under the BSD license
---
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
sphinxcontrib-websupport 1.0.1
COPYRIGHT and LICENSE:
License for sphinxcontrib-websupport
====================================

Copyright (c) 2007-2017 by the Sphinx team
(see https://github.com/sphinx-doc/sphinx/blob/master/AUTHORS).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



---
colorama>=0.3.5
COPYRIGHT and LICENSE:
Copyright (c) 2010 Jonathan Hartley
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holders, nor those of its contributors
  may be used to endorse or promote products derived from this software
 without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



=============
MarkupSafe v1.1.0
COPYRIGHT and LICENSE:


BSD 3-Clause

Copyright © 2010 by the Pallets team.

Some rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
```

```
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
 BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
 HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE
 AND DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



=============
certifi 2018.11.29

LICENSE: MPL v2.0

This packge contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $



===
Mozilla Public License
Version 2.0
1. Definitions

1.1. “Contributor”

    means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.
1.2. “Contributor Version”
```

```
    means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor's Contribution.
1.3. "Contribution"

    means Covered Software of a particular Contributor.
1.4. "Covered Software"

    means Source Code Form to which the initial Contributor has attached
 the notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.
1.5. "Incompatible With Secondary Licenses"

    means

        that the initial Contributor has attached the notice described in
 Exhibit B to the Covered Software; or

        that the Covered Software was made available under the terms of
 version 1.1 or earlier of the License, but not also under the terms of a
 Secondary License.

1.6. "Executable Form"

    means any form of the work other than Source Code Form.
1.7. "Larger Work"

    means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.
1.8. "License"

    means this document.
1.9. "Licensable"

    means having the right to grant, to the maximum extent possible, whether
 at the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.
1.10. "Modifications"

    means any of the following:

        any file in Source Code Form that results from an addition to,
 deletion from, or modification of the contents of Covered Software; or

        any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

    means any patent claim(s), including without limitation, method,
 process, and apparatus claims, in any patent Licensable by such Contributor
 that would be infringed, but for the grant of the License, by the making,
 using, selling, offering for sale, having made, import, or transfer of
 either its Contributions or its Contributor Version.
1.12. "Secondary License"

    means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.
1.13. "Source Code Form"

    means the form of the work preferred for making modifications.
1.14. "You" (or "Your")
```

```
    means an individual or a legal entity exercising rights under this
 License. For legal entities, "You" includes any entity that controls, is
 controlled by, or is under common control with You. For purposes of this
 definition, "control" means (a) the power, direct or indirect, to cause the
 direction or management of such entity, whether by contract or otherwise,
 or (b) ownership of more than fifty percent (50%) of the outstanding shares
 or beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

    under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

    under Patent Claims of such Contributor to make, use, sell, offer for
 sale, have made, import, and otherwise transfer either its Contributions or
 its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.
2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

    for any code that a Contributor has removed from Covered Software; or

    for infringements caused by: (i) Your and any other third party's
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

    under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).
2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).
2.5. Representation

Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.
2.6. Fair Use
```

```
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.
2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.
3. Responsibilities
3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.
3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

    such Covered Software must also be made available in Source Code
 Form, as described in Section 3.1, and You must inform recipients of the
 Executable Form how they can obtain a copy of such Source Code Form by
 reasonable means in a timely manner, at a charge no more than the cost of
 distribution to the recipient; and

    You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).
3.4. Notices

You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.
3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.
4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
```

```
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.
5. Termination

5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user license agreements (excluding distributors and resellers) which have
 been validly granted by You or Your distributors under this License prior
 to termination shall survive termination.
6. Disclaimer of Warranty

Covered Software is provided under this License on an “as is” basis, without
 warranty of any kind, either expressed, implied, or statutory, including,
 without limitation, warranties that the Covered Software is free of
 defects, merchantable, fit for a particular purpose or non-infringing. The
 entire risk as to the quality and performance of the Covered Software is
 with You. Should any Covered Software prove defective in any respect, You
 (not any Contributor) assume the cost of any necessary servicing, repair,
 or correction. This disclaimer of warranty constitutes an essential part
 of this License. No use of any Covered Software is authorized under this
 License except under this disclaimer.
7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including
 negligence), contract, or otherwise, shall any Contributor, or anyone who
 distributes Covered Software as permitted above, be liable to You for any
 direct, indirect, special, incidental, or consequential damages of any
 character including, without limitation, damages for lost profits, loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses, even if such party shall have been
 informed of the possibility of such damages. This limitation of liability
 shall not apply to liability for death or personal injury resulting from
 such party’s negligence to the extent applicable law prohibits such
 limitation. Some jurisdictions do not allow the exclusion or limitation of
 incidental or consequential damages, so this exclusion and limitation may
 not apply to You.
8. Litigation

Any litigation relating to this License may be brought only in the
 courts of a jurisdiction where the defendant maintains its principal
```

```
 place of business and such litigation shall be governed by laws of that
 jurisdiction, without reference to its conflict-of-law provisions. Nothing
 in this Section shall prevent a party’s ability to bring cross-claims or
 counter-claims.
9. Miscellaneous

This License represents the complete agreement concerning the subject matter
 hereof. If any provision of this License is held to be unenforceable,
 such provision shall be reformed only to the extent necessary to make it
 enforceable. Any law or regulation which provides that the language of
 a contract shall be construed against the drafter shall not be used to
 construe this License against a Contributor.
10. Versions of the License
10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
 10.3, no one other than the license steward has the right to modify
 or publish new versions of this License. Each version will be given a
 distinguishing version number.
10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of
 the License under which You originally received the Covered Software, or
 under the terms of any subsequent version published by the license steward.
10.3. Modified Versions

If you create software not governed by this License, and you want to create
 a new license for such software, you may create and use a modified version
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses

If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice

    This Source Code Form is subject to the terms of the Mozilla Public
 License, v. 2.0. If a copy of the MPL was not distributed with this file,
 You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.
Exhibit B - “Incompatible With Secondary Licenses” Notice

    This Source Code Form is “Incompatible With Secondary Licenses”, as
 defined by the Mozilla Public License, v. 2.0.



==================
chardet 3.0.4
COPYRIGHT: (C) Mark Pligrim and Daniel Blanchard
LICENSE: GNU LGPL v2.1

   GNU LESSER GENERAL PUBLIC LICENSE
         Version 2.1, February 1999
```

```
 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
     51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

       Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
```

```
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

    GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
```

```
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
```

```
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
```

```
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
```

```
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
```

```
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

       NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
```

```
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS



==================
idna v2.8
COPYRIGHT and LICENSE:
Copyright (c) 2013-2018, Kim Davies. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of the
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
    THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY EXPRESS OR
 IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.

Portions of the codec implementation and unit tests are derived from the
 Python standard library, which carries the Python Software Foundation
 License:

    Copyright (c) 2001-2014 Python Software Foundation; All Rights Reserved

Portions of the unit tests are derived from the Unicode standard, which is
 subject to the Unicode, Inc. License Agreement:

    Copyright (c) 1991-2014 Unicode, Inc. All rights reserved. Distributed
 under the Terms of Use in <http://www.unicode.org/copyright.html>.

    Permission is hereby granted, free of charge, to any person obtaining
 a copy of the Unicode data files and any associated documentation (the
 "Data Files") or Unicode software and any associated documentation (the
 "Software") to deal in the Data Files or Software without restriction,
 including without limitation the rights to use, copy, modify, merge,
 publish, distribute, and/or sell copies of the Data Files or Software, and
 to permit persons to whom the Data Files or Software are furnished to do
 so, provided that

    (a) this copyright and permission notice appear with all copies of the
 Data Files or Software,

    (b) this copyright and permission notice appear in associated
 documentation, and
```

```
    (c) there is clear notice in each modified Data File or in the Software
 as well as in the documentation associated with the Data File(s) or
 Software that the data or software has been modified.

    THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
 ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
 OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS
 INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT
 OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
 OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
 PERFORMANCE OF THE DATA FILES OR SOFTWARE.

    Except as contained in this notice, the name of a copyright holder
 shall not be used in advertising or otherwise to promote the sale, use
 or other dealings in these Data Files or Software without prior written
 authorization of the copyright holder.



==================
pyparsing v2.2.2
Copyright: 2018, Paul T. McGuire
COPYRIGHT and LICENSE:

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.




==================
pytz 2018.9
COPYRIGHT and LICENSE:
Copyright (c) 2003-2005 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


==================
urllib3 1.24.1
COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2008-2019 Andrey Petrov and contributors (see
 CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: The TensorFlow Authors / Component(s): TensorFlow 2.16.2

```
----------- Licenses -----------

----------- tensorflow (Apache License 2.0) [https://github.com/tensorflow/
tensorflow] -----------
Copyright notice(s):

Copyright 2018, The TensorFlow Authors.
Copyright (c) 2014, The Regents of the University of California (Regents)
All rights reserved.
Copyright (c) 2014, the respective contributors
All rights reserved.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
```

```
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
```

```
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
## Some of TensorFlow's code is derived from Caffe, which is subject to the
 following copyright notice:
COPYRIGHT
All contributions by the University of California:
Copyright (c) 2014, The Regents of the University of California (Regents)
All rights reserved.
All other contributions:
Copyright (c) 2014, the respective contributors
All rights reserved.
Caffe uses a shared copyright model: each contributor holds copyright over
their contributions to Caffe. The project versioning records all such
contribution and copyright details. If a contributor wants to further mark
their specific copyright on a particular contribution, they should indicate
their copyright solely in the commit message of the change when it is
committed.
LICENSE
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
   ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
   DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR
```

```
   ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
   (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
   LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
   ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
   SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
CONTRIBUTION AGREEMENT
By contributing to the BVLC/caffe repository through pull-request, comment,
or otherwise, the contributor releases their content to the
license and copyright terms herein.


----------- absl-py, ml-dtypes  (Apache License 2.0) [https://github.com/
abseil/abseil-py] -----------
Copyright notice(s):

Copyright Â©2017 Abseil


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
```

```
        as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
```

```
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- astunparse (PSF License) [https://github.com/simonpercivall/
astunparse] -----------
Copyright notice(s):

Copyright (c) 2014, Simon Percivall


License fulltext:
LICENSE
-------
Copyright (c) 2014, Simon Percivall
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
* Neither the name of AST Unparser nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------
1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.
2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are
 retained
in Python alone or in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.
4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
```

```
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.
8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

----------- cachetools (MIT License) [https://github.com/tkem/cachetools/]
 -----------
Copyright notice(s):

Copyright (c) 2014-2022 Thomas Kemmer


License fulltext:
The MIT License (MIT)
Copyright (c) 2014-2022 Thomas Kemmer
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------- flatbuffers (Apache License 2.0) [https://github.com/google/
flatbuffers] -----------
Copyright notice(s):

# Copyright 2019 Google Inc. All rights reserved.



License fulltext:
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
```

```
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
```

```
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- google-auth (Apache License 2.0) [https://github.com/googleapis/
google-auth-library-python] -----------
Copyright notice(s):

Copyright Â©2016, Google, Inc


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and
    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and
    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and
    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- google-auth-oauthlib (Apache License 2.0) [https://github.com/
GoogleCloudPlatform/google-auth-library-python-oauthlib] -----------
Copyright notice(s):

Copyright 2023 Google LLC


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
```

```
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- google-pasta (Apache License 2.0) [https://github.com/google/
pasta] -----------
Copyright notice(s):

Copyright 2021 Google LLC


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
```

```
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
```

```
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- grpcio (Apache License 2.0) [https://github.com/grpc/grpc/tree/
master/src/python/grpcio] -----------
Copyright notice(s):

Copyright Â© 2022 gRPC Authors



License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
```

```
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
```

```
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------------------------------------
BSD 3-Clause License
Copyright 2016, Google Inc.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
```

```
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------
Mozilla Public License Version 2.0
----------------------------------
1. Definitions
--------------
1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.
1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.
1.3. "Contribution"
    means Covered Software of a particular Contributor.
1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.
1.5. "Incompatible With Secondary Licenses"
    means
     (a) that the initial Contributor has attached the notice described
         in Exhibit B to the Covered Software; or
     (b) that the Covered Software was made available under the terms of
         version 1.1 or earlier of the License, but not also under the
         terms of a Secondary License.
1.6. "Executable Form"
    means any form of the work other than Source Code Form.
1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.
1.8. "License"
    means this document.
1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.
1.10. "Modifications"
    means any of the following:
     (a) any file in Source Code Form that results from an addition to,
         deletion from, or modification of the contents of Covered
         Software; or
     (b) any new file in Source Code Form that contains any Covered
         Software.
1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
```

```
    made, import, or transfer of either its Contributions or its
    Contributor Version.
1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.
1.13. "Source Code Form"
    means the form of the work preferred for making modifications.
1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.
2. License Grants and Conditions
--------------------------------
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:
(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and
(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:
(a) for any code that a Contributor has removed from Covered Software;
    or
(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or
(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.
This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
```

```
equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.
3. Responsibilities
-------------------
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and
(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).
3.4. Notices
You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.
4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------
If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.
```

```
5. Termination
--------------
5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************
************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
```

```
************************************************************************
8. Litigation
-------------
Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.
9. Miscellaneous
----------------
This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.
10. Versions of the License
---------------------------
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses
If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
-------------------------------------------
  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------
  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

----------- h5py (BSD 3-Clause "New" or "Revised" License) [https://
github.com/h5py/h5py] -----------
Copyright notice(s):

Copyright (c) 2000-2008 Marc Alexander Lehmann <schmorp@schmorp.de>


Copyright 2006-2007 by The HDF Group (THG).
Copyright 1998-2006 by the Board of Trustees of the University of Illinois.
```

```
Copyright (c) 2006-2008 Alexander Chemeris


Copyright (c) 2008-2013 Andrew Collette and contributors


Copyright (c) 2002, 2003, 2004  Francesc Altet
Copyright (c) 2005, 2006, 2007  Carabos Coop. V.



License fulltext:
Copyright (c) 2008 Andrew Collette and contributors
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the
   distribution.
3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- importlib-metadata (Apache License 2.0) [https://github.com/
python/importlib_metadata] -----------
Copyright notice(s):

Copyright Â© Jason R. Coombs



License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

```
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
```

```
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- keras (Apache License 2.0) [https://github.com/keras-team/keras]
 -----------
Copyright notice(s):

Copyright 2022 The TensorFlow Authors. All Rights Reserved.


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
```

```
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
```

```
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
```

```
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- keras-preprocessing (MIT License) [https://github.com/keras-
team/keras-preprocessing] -----------
Copyright notice(s):

Copyright (c) 2015 - 2018, The TensorFlow Authors. All Rights Reserved.



License fulltext:
COPYRIGHT
Copyright (c) 2015 - 2018, the respective contributors.
All rights reserved.
Each contributor holds copyright over their respective contributions.
The project versioning (Git) records all such contribution source
 information.
The initial code of this repository came from https://github.com/keras-team/
keras
(the Keras repository), hence, for author information regarding commits
that occured earlier than the first commit in the present repository,
please see the original Keras repository.
LICENSE
The MIT License (MIT)
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- libclang (Apache License 2.0) [https://github.com/sighingnow/
libclang] -----------
Copyright notice(s):

Copyright (c) 2007-2019 University of Illinois at Urbana-Champaign.
```

```
License fulltext:
==============================================================================
The LLVM Project is under the Apache License v2.0 with LLVM Exceptions:
==============================================================================
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
    1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
    2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
```

```
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
    3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
    4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
    5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
    6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
    7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
    8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
    9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
    END OF TERMS AND CONDITIONS
    APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
    Copyright [yyyy] [name of copyright owner]
    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.
---- LLVM Exceptions to the Apache 2.0 License ----
As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into an Object form of such source code, you
may redistribute such embedded portions in such Object form without
 complying
with the conditions of Sections 4(a), 4(b) and 4(d) of the License.
In addition, if you combine or link compiled forms of this Software with
software that is licensed under the GPLv2 ("Combined Software") and if a
court of competent jurisdiction determines that the patent provision
 (Section
3), the indemnity provision (Section 9) or other Section of the License
conflicts with the conditions of the GPLv2, you may retroactively and
prospectively choose to deem waived or otherwise exclude such Section(s) of
```

```
the License, but only in their entirety and only with respect to the
 Combined
Software.
==============================================================================
Software from third parties included in the LLVM Project:
==============================================================================
The LLVM Project contains third party software which is under different
 license
terms. All such code will be identified clearly using at least one of two
mechanisms:
1) It will be in a separate directory tree with its own `LICENSE.txt` or
   `LICENSE` file at the top containing the specific license and
 restrictions
   which apply to that software, or
2) It will contain specific license and restriction terms at the top of
 every
   file.
==============================================================================
Legacy LLVM License (https://llvm.org/docs/DeveloperPolicy.html#legacy):
==============================================================================
University of Illinois/NCSA
Open Source License
Copyright (c) 2007-2019 University of Illinois at Urbana-Champaign.
All rights reserved.
Developed by:
    LLVM Team
    University of Illinois at Urbana-Champaign
    http://llvm.org
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 with
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimers.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimers in the
      documentation and/or other materials provided with the distribution.
    * Neither the names of the LLVM Team, University of Illinois at
      Urbana-Champaign, nor the names of its contributors may be used to
      endorse or promote products derived from this Software without
 specific
      prior written permission.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH
 THE
SOFTWARE.

----------- markdown (BSD 3-Clause "New" or "Revised" License) [https://
github.com/Python-Markdown/markdown] -----------
Copyright notice(s):
```

```
Copyright 2007, 2008 The Python Markdown Project (v. 1.7 and later)
Copyright 2004, 2005, 2006 Yuri Takhteyev (v. 0.2-1.6b)
Copyright 2004 Manfred Stienstra (the original version)


License fulltext:
Copyright 2007, 2008 The Python Markdown Project (v. 1.7 and later)
Copyright 2004, 2005, 2006 Yuri Takhteyev (v. 0.2-1.6b)
Copyright 2004 Manfred Stienstra (the original version)
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of the Python Markdown Project nor the
  names of its contributors may be used to endorse or promote products
  derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE PYTHON MARKDOWN PROJECT ''AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL ANY CONTRIBUTORS TO THE PYTHON MARKDOWN
 PROJECT
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

----------- markupsafe (BSD 3-Clause "New" or "Revised" License) [https://
github.com/pallets/markupsafe/] -----------
Copyright notice(s):

Copyright 2010 Pallets



License fulltext:
Copyright 2010 Pallets
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
```

```
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- numpy (BSD 3-Clause "New" or "Revised" License) [https://
github.com/numpy/numpy] -----------
Copyright notice(s):


Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.


Copyright (c) 2019 Kevin Sheppard. All rights reserved.


Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.


Copyright (c) 2005-2017, NumPy Developers. All rights reserved.


Copyright 2010-2012, D. E. Shaw Research.
All rights reserved.


Copyright (c) 2008 Ian Bicking and Contributors


Copyright (c) 2018 Melissa E. O'Neill


Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant


Copyright (C) 2010 The Android Open Source Project



License fulltext:
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----
This binary distribution of NumPy also bundles the following software:
Name: OpenBLAS
Files: .libs/libopenb*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.
  $COPYRIGHT$
  Additional copyrights may follow
  $HEADER$
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
```

```
    provided with the distribution.
  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- Bundled licenses in numpy (BSD 3-Clause "New" or "Revised"
 License) [https://github.com/numpy/numpy] -----------
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------------------------------------------------------------------------

Name: lapack-lite
License: BSD-3-Clause

Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow
```

```
$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: tempita
License: MIT

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
--------------------------------------------------------------------------------
Name: dragon4
License: MIT

Copyright (c) 2014 Ryan Juckett

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: libdivide
License: Zlib

zlib License
------------

Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
    claim that you wrote the original software. If you use this software
    in a product, an acknowledgment in the product documentation would be
    appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
    misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

--------------------------------------------------------------------------------
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: BSD 3-Clause
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md
```

```
Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: BSD 3-Clause
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: BSD 3-Clause
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------------------------------------------------------------------------
Name: SPLITMIX64
License: BSD 3-Clause

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

------------------------------------------------------------------------------------------
Name: SFC64
License: MIT

Â© 2005â€"2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX
License: BSD 3-Clause

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64
License: MIT

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: MT19937
License: MIT

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: Julia
License: MIT

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: Random
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

--------------------------------------------------------------------------------
Name: nympy.core.ma
License: BSD 3-Clause

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.
```

```
 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



----------- oauthlib (BSD 3-Clause "New" or "Revised" License) [https://
github.com/oauthlib/oauthlib] -----------
Copyright notice(s):

Copyright (c) 2019 The OAuthlib Community


License fulltext:
Copyright (c) 2019 The OAuthlib Community
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of this project nor the names of its contributors
 may
       be used to endorse or promote products derived from this software
 without
       specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- opt-einsum (MIT License) [https://github.com/dgasmith/
opt_einsum] -----------
Copyright notice(s):

Copyright (c) 2014 Daniel Smith


Copyright (c) 2018 Uber Technologies



License fulltext:
```

```
The MIT License (MIT)
Copyright (c) 2014 Daniel Smith
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- protobuf (BSD 3-Clause "New" or "Revised" License) [https://
github.com/protocolbuffers/protobuf] -----------
Copyright notice(s):


Copyright 2008 Google Inc.  All rights reserved.



License fulltext:
Copyright 2008 Google Inc.  All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

----------- pyasn1 (BSD 2-Clause "Simplified" License) [https://github.com/
etingof/pyasn1] -----------
Copyright notice(s):
```

```
Copyright (c) 2005-2020, Ilya Etingof <etingof@gmail.com>


License fulltext:
Copyright (c) 2005-2020, Ilya Etingof <etingof@gmail.com>
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

----------- pyasn1-modules (BSD 2-Clause "Simplified" License) [https://
github.com/etingof/pyasn1-modules] -----------
Copyright notice(s):

Copyright (c) 2005-2020, Ilya Etingof <etingof@gmail.com>


License fulltext:
Copyright (c) 2005-2020, Ilya Etingof <etingof@gmail.com>
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

----------- requests-oauthlib (ISC License) [https://github.com/requests/
requests-oauthlib] -----------
Copyright notice(s):

Copyright (c) 2014 Kenneth Reitz.
```

```
License fulltext:
ISC License
Copyright (c) 2014 Kenneth Reitz.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------- rsa (Apache License 2.0) [https://github.com/sybrenstuvel/
python-rsa] -----------
Copyright notice(s):

Copyright 2011 Sybren A. StÃ¼vel <sybren@stuvel.eu>


License fulltext:
Copyright 2011 Sybren A. StÃ¼vel <sybren@stuvel.eu>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
   https://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------- six (MIT License) [https://github.com/benjaminp/six] -----------
Copyright notice(s):

Copyright (c) 2010-2020 Benjamin Peterson



License fulltext:
Copyright (c) 2010-2020 Benjamin Peterson
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
```

```
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------- tensorboard (Apache License 2.0) [https://github.com/tensorflow/
tensorboard] -----------
Copyright notice(s):

Copyright 2017 The TensorFlow Authors.  All rights reserved.



License fulltext:
Copyright 2017 The TensorFlow Authors.  All rights reserved.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
```

```
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
```

```
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2017, The TensorFlow Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- tensorboard-data-server (Apache License 2.0) [https://
github.com/tensorflow/tensorboard/tree/master/tensorboard/data/server]
 -----------
Copyright notice(s):

Copyright 2017, The TensorFlow Authors.
```

```
License fulltext:
Copyright 2017 The TensorFlow Authors.  All rights reserved.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
```

```
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2017, The TensorFlow Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- tensorboard-plugin-wit (Apache License 2.0) [https://github.com/
pair-code/what-if-tool] -----------
Copyright notice(s):

Copyright 2018, The TensorFlow Authors.


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
```

```
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
```

```
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- tensorflow-estimator (Apache License 2.0) [https://github.com/
tensorflow/estimator/tags] -----------
Copyright notice(s):

Copyright 2017, The TensorFlow Authors.


License fulltext:
Copyright 2018 The TensorFlow Authors.  All rights reserved.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and
    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
```

```
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2017, The TensorFlow Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- tensorflow-io-gcs-filesystem (Apache License 2.0) [https://
github.com/tensorflow/io] -----------
Copyright notice(s):

Copyright 2021 The TensorFlow Authors. All Rights Reserved.


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.
     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."
     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.
  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.
  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:
     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and
     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and
     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
     (d) If the Work includes a "NOTICE" text file as part of its
         distribution, then any Derivative Works that You distribute must
         include a readable copy of the attribution notices contained
         within such NOTICE file, excluding those notices that do not
         pertain to any part of the Derivative Works, in at least one
         of the following places: within a NOTICE text file distributed
         as part of the Derivative Works; within the Source form or
         documentation, if provided along with the Derivative Works; or,
```

```
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- termcolor (MIT License) [https://github.com/termcolor/termcolor]
 -----------
Copyright notice(s):

Copyright (c) 2008-2011 Volvox Development Team


License fulltext:
Copyright (c) 2008-2011 Volvox Development Team
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------- werkzeug (BSD 3-Clause "New" or "Revised" License) [https://
github.com/pallets/werkzeug/] -----------
Copyright notice(s):

Copyright 2007 Pallets


License fulltext:
Copyright 2007 Pallets
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- wrapt (BSD 2-Clause "Simplified" License) [https://github.com/
GrahamDumpleton/wrapt] -----------
Copyright notice(s):

Copyright (c) 2013-2022, Graham Dumpleton



License fulltext:
Copyright (c) 2013-2022, Graham Dumpleton
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

----------- zipp,  (MIT License) [https://github.com/jaraco/zipp]
 -----------
Copyright notice(s):

Copyright Jason R. Coombs



License fulltext:
Copyright Jason R. Coombs
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
```

```
---------------- setuptools (MIT License) [https://github.com/pypa/
setuptools/blob/main/LICENSE] ------------
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

---------------- MarkupSafe, h5py, idna   - BSD 3-Clause "New" or
 "Revised" License [https://github.com/pallets/markupsafe/blob/main/
LICENSE.rst]----------------------------
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

---------------- typing-extensions -- Sync LICENSE with CPython
 [https://github.com/python/typing_extensions/blob/main/LICENSE]
 ----------------------------
A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
```

```
In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
```

```
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
```

```
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
```

```
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
```

```
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
----------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

---------------------------     whee, gast, charset-normalizer, urllib3 --
 MIT License [https://github.com/pypa/wheel/blob/main/LICENSE.txt] -------
MIT License

Copyright (c) 2012 Daniel Holth <dholth@fastmail.fm> and contributors

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

---------------------------      packaging [https://github.com/pypa/
packaging/blob/main/LICENSE] ------------------
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

------------------------ certifi [https://github.com/certifi/python-certifi/
blob/master/LICENSE] -------------------------
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
```

```
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $
```

Provider: The TensorFlow Authors / Component(s): TensorFlow 2.16.2

```
----------- Licenses -----------

----------- tensorflow (Apache License 2.0) [https://github.com/tensorflow/
tensorflow] -----------
Copyright notice(s):

Copyright 2018, The TensorFlow Authors.
Copyright (c) 2014, The Regents of the University of California (Regents)
All rights reserved.
Copyright (c) 2014, the respective contributors
All rights reserved.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
    identification within third-party archives.
Copyright [yyyy] [name of copyright owner]
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
## Some of TensorFlow's code is derived from Caffe, which is subject to the
 following copyright notice:
COPYRIGHT
All contributions by the University of California:
Copyright (c) 2014, The Regents of the University of California (Regents)
All rights reserved.
All other contributions:
Copyright (c) 2014, the respective contributors
All rights reserved.
Caffe uses a shared copyright model: each contributor holds copyright over
their contributions to Caffe. The project versioning records all such
contribution and copyright details. If a contributor wants to further mark
their specific copyright on a particular contribution, they should indicate
their copyright solely in the commit message of the change when it is
committed.
LICENSE
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND
   ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
   WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
   DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR
   ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
   (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
   LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND
   ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
   SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
CONTRIBUTION AGREEMENT
By contributing to the BVLC/caffe repository through pull-request, comment,
or otherwise, the contributor releases their content to the
license and copyright terms herein.


----------- absl-py, ml-dtypes  (Apache License 2.0) [https://github.com/
abseil/abseil-py] -----------
Copyright notice(s):

Copyright Â©2017 Abseil


License fulltext:
                                Apache License
                           Version 2.0, January 2004
```

```
                        http://www.apache.org/licenses/
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
  1. Definitions.
     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.
     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.
     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.
     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.
     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.
     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).
     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.
     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."
     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.
  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- astunparse (PSF License) [https://github.com/simonpercivall/
astunparse] -----------
Copyright notice(s):

Copyright (c) 2014, Simon Percivall


License fulltext:
LICENSE
-------
Copyright (c) 2014, Simon Percivall
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
* Neither the name of AST Unparser nor the names of its contributors may
 be used to endorse or promote products derived from this software without
 specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---------------------------------------------
1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.
2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are
 retained
in Python alone or in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.
4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.
7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.
8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

----------- cachetools (MIT License) [https://github.com/tkem/cachetools/]
 -----------
Copyright notice(s):

Copyright (c) 2014-2022 Thomas Kemmer


License fulltext:
The MIT License (MIT)
```

```
Copyright (c) 2014-2022 Thomas Kemmer
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------- flatbuffers (Apache License 2.0) [https://github.com/google/
flatbuffers] -----------
Copyright notice(s):

# Copyright 2019 Google Inc. All rights reserved.



License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
```

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- google-auth (Apache License 2.0) [https://github.com/googleapis/
google-auth-library-python] -----------
Copyright notice(s):

Copyright Â©2016, Google, Inc


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
```

```
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
----------- google-auth-oauthlib (Apache License 2.0) [https://github.com/
GoogleCloudPlatform/google-auth-library-python-oauthlib] -----------
Copyright notice(s):

Copyright 2023 Google LLC


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
```

```
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- google-pasta (Apache License 2.0) [https://github.com/google/
pasta] -----------
Copyright notice(s):

Copyright 2021 Google LLC


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
```

```
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- grpcio (Apache License 2.0) [https://github.com/grpc/grpc/tree/
master/src/python/grpcio] -----------
Copyright notice(s):

Copyright Â© 2022 gRPC Authors



License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
```

```
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
------------------------------------------------------------
BSD 3-Clause License
Copyright 2016, Google Inc.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
------------------------------------------------------------
Mozilla Public License Version 2.0
----------------------------------
1. Definitions
--------------
1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.
1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.
```

```
1.3. "Contribution"
    means Covered Software of a particular Contributor.
1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.
1.5. "Incompatible With Secondary Licenses"
    means
    (a) that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or
    (b) that the Covered Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the
        terms of a Secondary License.
1.6. "Executable Form"
    means any form of the work other than Source Code Form.
1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.
1.8. "License"
    means this document.
1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.
1.10. "Modifications"
    means any of the following:
    (a) any file in Source Code Form that results from an addition to,
        deletion from, or modification of the contents of Covered
        Software; or
    (b) any new file in Source Code Form that contains any Covered
        Software.
1.11. "Patent Claims" of a Contributor
    means any patent claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.
1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.
1.13. "Source Code Form"
    means the form of the work preferred for making modifications.
1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect, to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.
2. License Grants and Conditions
--------------------------------
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:
(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
```

```
    as part of a Larger Work; and
(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.
2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution
become effective for each Contribution on the date the Contributor first
distributes such Contribution.
2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:
(a) for any code that a Contributor has removed from Covered Software;
    or
(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or
(c) under Patent Claims infringed by Covered Software in the absence of
    its Contributions.
This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).
2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).
2.5. Representation
Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.
2.6. Fair Use
This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.
2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.
3. Responsibilities
-------------------
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.
3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:
(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and
(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.
3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
```

```
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).
3.4. Notices
You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known factual inaccuracies.
3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.
4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------
If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.
5. Termination
--------------
5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.
5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.
5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.
************************************************************************
*                                                                      *
```

```
*  6. Disclaimer of Warranty                                            *
*  -------------------------                                            *
*                                                                       *
*  Covered Software is provided under this License on an "as is"        *
*  basis, without warranty of any kind, either expressed, implied, or   *
*  statutory, including, without limitation, warranties that the        *
*  Covered Software is free of defects, merchantable, fit for a         *
*  particular purpose or non-infringing. The entire risk as to the      *
*  quality and performance of the Covered Software is with You.         *
*  Should any Covered Software prove defective in any respect, You      *
*  (not any Contributor) assume the cost of any necessary servicing,    *
*  repair, or correction. This disclaimer of warranty constitutes an    *
*  essential part of this License. No use of any Covered Software is    *
*  authorized under this License except under this disclaimer.          *
*                                                                       *
************************************************************************
************************************************************************
*                                                                       *
*  7. Limitation of Liability                                           *
*  --------------------------                                           *
*                                                                       *
*  Under no circumstances and under no legal theory, whether tort       *
*  (including negligence), contract, or otherwise, shall any            *
*  Contributor, or anyone who distributes Covered Software as           *
*  permitted above, be liable to You for any direct, indirect,          *
*  special, incidental, or consequential damages of any character       *
*  including, without limitation, damages for lost profits, loss of     *
*  goodwill, work stoppage, computer failure or malfunction, or any     *
*  and all other commercial damages or losses, even if such party       *
*  shall have been informed of the possibility of such damages. This    *
*  limitation of liability shall not apply to liability for death or    *
*  personal injury resulting from such party's negligence to the        *
*  extent applicable law prohibits such limitation. Some                *
*  jurisdictions do not allow the exclusion or limitation of            *
*  incidental or consequential damages, so this exclusion and           *
*  limitation may not apply to You.                                     *
*                                                                       *
************************************************************************
8. Litigation
-------------
Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.
9. Miscellaneous
----------------
This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.
10. Versions of the License
---------------------------
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.
10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
```

```
or under the terms of any subsequent version published by the license
steward.
10.3. Modified Versions
If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).
10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses
If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.
Exhibit A - Source Code Form License Notice
-------------------------------------------
  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at http://mozilla.org/MPL/2.0/.
If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.
You may add additional accurate notices of copyright ownership.
Exhibit B - "Incompatible With Secondary Licenses" Notice
---------------------------------------------------------
  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

----------- h5py (BSD 3-Clause "New" or "Revised" License) [https://
github.com/h5py/h5py] -----------
Copyright notice(s):

Copyright (c) 2000-2008 Marc Alexander Lehmann <schmorp@schmorp.de>


Copyright 2006-2007 by The HDF Group (THG).
Copyright 1998-2006 by the Board of Trustees of the University of Illinois.


Copyright (c) 2006-2008 Alexander Chemeris


Copyright (c) 2008-2013 Andrew Collette and contributors


Copyright (c) 2002, 2003, 2004  Francesc Altet
Copyright (c) 2005, 2006, 2007  Carabos Coop. V.



License fulltext:
Copyright (c) 2008 Andrew Collette and contributors
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the
   distribution.
3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
```

```
   this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- importlib-metadata (Apache License 2.0) [https://github.com/
python/importlib_metadata] -----------
Copyright notice(s):

Copyright Â© Jason R. Coombs



License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
```

```
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
```

```
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.

----------- keras (Apache License 2.0) [https://github.com/keras-team/keras]
 -----------
Copyright notice(s):

Copyright 2022 The TensorFlow Authors. All Rights Reserved.


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- keras-preprocessing (MIT License) [https://github.com/keras-
team/keras-preprocessing] -----------
Copyright notice(s):

Copyright (c) 2015 - 2018, The TensorFlow Authors. All Rights Reserved.



License fulltext:
COPYRIGHT
```

```
Copyright (c) 2015 - 2018, the respective contributors.
All rights reserved.
Each contributor holds copyright over their respective contributions.
The project versioning (Git) records all such contribution source
 information.
The initial code of this repository came from https://github.com/keras-team/
keras
(the Keras repository), hence, for author information regarding commits
that occured earlier than the first commit in the present repository,
please see the original Keras repository.
LICENSE
The MIT License (MIT)
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- libclang (Apache License 2.0) [https://github.com/sighingnow/
libclang] -----------
Copyright notice(s):

Copyright (c) 2007-2019 University of Illinois at Urbana-Champaign.



License fulltext:
==============================================================================
The LLVM Project is under the Apache License v2.0 with LLVM Exceptions:
==============================================================================
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
    1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
```

```
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and
    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
  5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
  6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
  7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
  8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
  9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
```

```
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
    END OF TERMS AND CONDITIONS
    APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
    Copyright [yyyy] [name of copyright owner]
    Licensed under the Apache License, Version 2.0 (the "License");
    you may not use this file except in compliance with the License.
    You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
    Unless required by applicable law or agreed to in writing, software
    distributed under the License is distributed on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.
---- LLVM Exceptions to the Apache 2.0 License ----
As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into an Object form of such source code, you
may redistribute such embedded portions in such Object form without
 complying
with the conditions of Sections 4(a), 4(b) and 4(d) of the License.
In addition, if you combine or link compiled forms of this Software with
software that is licensed under the GPLv2 ("Combined Software") and if a
court of competent jurisdiction determines that the patent provision
 (Section
3), the indemnity provision (Section 9) or other Section of the License
conflicts with the conditions of the GPLv2, you may retroactively and
prospectively choose to deem waived or otherwise exclude such Section(s) of
the License, but only in their entirety and only with respect to the
 Combined
Software.
==============================================================================
Software from third parties included in the LLVM Project:
==============================================================================
The LLVM Project contains third party software which is under different
 license
terms. All such code will be identified clearly using at least one of two
mechanisms:
1) It will be in a separate directory tree with its own `LICENSE.txt` or
   `LICENSE` file at the top containing the specific license and
 restrictions
   which apply to that software, or
2) It will contain specific license and restriction terms at the top of
 every
   file.
==============================================================================
Legacy LLVM License (https://llvm.org/docs/DeveloperPolicy.html#legacy):
==============================================================================
University of Illinois/NCSA
Open Source License
Copyright (c) 2007-2019 University of Illinois at Urbana-Champaign.
All rights reserved.
Developed by:
    LLVM Team
    University of Illinois at Urbana-Champaign
```

```
    http://llvm.org
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 with
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimers.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimers in the
      documentation and/or other materials provided with the distribution.
    * Neither the names of the LLVM Team, University of Illinois at
      Urbana-Champaign, nor the names of its contributors may be used to
      endorse or promote products derived from this Software without
 specific
      prior written permission.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH
 THE
SOFTWARE.

----------- markdown (BSD 3-Clause "New" or "Revised" License) [https://
github.com/Python-Markdown/markdown] -----------
Copyright notice(s):

Copyright 2007, 2008 The Python Markdown Project (v. 1.7 and later)
Copyright 2004, 2005, 2006 Yuri Takhteyev (v. 0.2-1.6b)
Copyright 2004 Manfred Stienstra (the original version)


License fulltext:
Copyright 2007, 2008 The Python Markdown Project (v. 1.7 and later)
Copyright 2004, 2005, 2006 Yuri Takhteyev (v. 0.2-1.6b)
Copyright 2004 Manfred Stienstra (the original version)
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of the Python Markdown Project nor the
  names of its contributors may be used to endorse or promote products
  derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE PYTHON MARKDOWN PROJECT ''AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL ANY CONTRIBUTORS TO THE PYTHON MARKDOWN
 PROJECT
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
```

```
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

----------- markupsafe (BSD 3-Clause "New" or "Revised" License) [https://
github.com/pallets/markupsafe/] -----------
Copyright notice(s):

Copyright 2010 Pallets



License fulltext:
Copyright 2010 Pallets
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- numpy (BSD 3-Clause "New" or "Revised" License) [https://
github.com/numpy/numpy] -----------
Copyright notice(s):


Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.


Copyright (c) 2019 Kevin Sheppard. All rights reserved.


Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.


Copyright (c) 2005-2017, NumPy Developers. All rights reserved.
```

```
Copyright 2010-2012, D. E. Shaw Research.
All rights reserved.


Copyright (c) 2008 Ian Bicking and Contributors


Copyright (c) 2018 Melissa E. O'Neill


Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant


Copyright (C) 2010 The Android Open Source Project



License fulltext:
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.
    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----
This binary distribution of NumPy also bundles the following software:
Name: OpenBLAS
Files: .libs/libopenb*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.
     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
```

```
        permission.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.
  $COPYRIGHT$
  Additional copyrights may follow
  $HEADER$
  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:
  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.
  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- Bundled licenses in numpy (BSD 3-Clause "New" or "Revised"
 License) [https://github.com/numpy/numpy] -----------
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.
```

```
Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------------------------------------------------------------------------

Name: lapack-lite
License: BSD-3-Clause

Copyright (c) 1992-2013 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                        reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: tempita
License: MIT

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


--------------------------------------------------------------------------------
Name: dragon4
License: MIT

Copyright (c) 2014 Ryan Juckett

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: libdivide
License: Zlib
```

```
zlib License
------------

Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
    claim that you wrote the original software. If you use this software
    in a product, an acknowledgment in the product documentation would be
    appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
    misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

--------------------------------------------------------------------------------
The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: BSD 3-Clause
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: BSD 3-Clause
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md
```

```
Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: BSD 3-Clause
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------------------------------------------------------------------------
Name: SPLITMIX64
License: BSD 3-Clause

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.

See http://creativecommons.org/publicdomain/zero/1.0/.

------------------------------------------------------------------------------------------
Name: SFC64
License: MIT

Â© 2005â€"2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: PHILOX
License: BSD 3-Clause

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   - Redistributions of source code must retain the above copyright notice,
 this list of conditions, and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
```

```
    - Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------
Name: PCG64
License: MIT

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: MT19937
License: MIT

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
```

```
   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: Julia
License: MIT

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
Name: Random
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.

--------------------------------------------------------------------------------
Name: nympy.core.ma
License: BSD 3-Clause

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



----------- oauthlib (BSD 3-Clause "New" or "Revised" License) [https://
github.com/oauthlib/oauthlib] -----------
Copyright notice(s):

Copyright (c) 2019 The OAuthlib Community


License fulltext:
Copyright (c) 2019 The OAuthlib Community
All rights reserved.
Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:
    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of this project nor the names of its contributors
 may
       be used to endorse or promote products derived from this software
 without
       specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- opt-einsum (MIT License) [https://github.com/dgasmith/
opt_einsum] -----------
Copyright notice(s):

Copyright (c) 2014 Daniel Smith


Copyright (c) 2018 Uber Technologies



License fulltext:
The MIT License (MIT)
Copyright (c) 2014 Daniel Smith
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------- protobuf (BSD 3-Clause "New" or "Revised" License) [https://
github.com/protocolbuffers/protobuf] -----------
Copyright notice(s):
```

```
Copyright 2008 Google Inc.  All rights reserved.



License fulltext:
Copyright 2008 Google Inc.  All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

----------- pyasn1 (BSD 2-Clause "Simplified" License) [https://github.com/
etingof/pyasn1] -----------
Copyright notice(s):

Copyright (c) 2005-2020, Ilya Etingof <etingof@gmail.com>


License fulltext:
Copyright (c) 2005-2020, Ilya Etingof <etingof@gmail.com>
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
```

```
POSSIBILITY OF SUCH DAMAGE.

----------- pyasn1-modules (BSD 2-Clause "Simplified" License) [https://
github.com/etingof/pyasn1-modules] -----------
Copyright notice(s):

Copyright (c) 2005-2020, Ilya Etingof <etingof@gmail.com>


License fulltext:
Copyright (c) 2005-2020, Ilya Etingof <etingof@gmail.com>
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

----------- requests-oauthlib (ISC License) [https://github.com/requests/
requests-oauthlib] -----------
Copyright notice(s):

Copyright (c) 2014 Kenneth Reitz.


License fulltext:
ISC License
Copyright (c) 2014 Kenneth Reitz.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------- rsa (Apache License 2.0) [https://github.com/sybrenstuvel/
python-rsa] -----------
Copyright notice(s):

Copyright 2011 Sybren A. StÃ¼vel <sybren@stuvel.eu>


License fulltext:
Copyright 2011 Sybren A. StÃ¼vel <sybren@stuvel.eu>
Licensed under the Apache License, Version 2.0 (the "License");
```

```
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
   https://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

----------- six (MIT License) [https://github.com/benjaminp/six] -----------
Copyright notice(s):

Copyright (c) 2010-2020 Benjamin Peterson



License fulltext:
Copyright (c) 2010-2020 Benjamin Peterson
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------- tensorboard (Apache License 2.0) [https://github.com/tensorflow/
tensorboard] -----------
Copyright notice(s):

Copyright 2017 The TensorFlow Authors.  All rights reserved.



License fulltext:
Copyright 2017 The TensorFlow Authors.  All rights reserved.
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
```

```
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
```

```
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
```

```
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2017, The TensorFlow Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- tensorboard-data-server (Apache License 2.0) [https://
github.com/tensorflow/tensorboard/tree/master/tensorboard/data/server]
 -----------
Copyright notice(s):

Copyright 2017, The TensorFlow Authors.


License fulltext:
Copyright 2017 The TensorFlow Authors.  All rights reserved.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
```

```
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and
    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2017, The TensorFlow Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- tensorboard-plugin-wit (Apache License 2.0) [https://github.com/
pair-code/what-if-tool] -----------
Copyright notice(s):

Copyright 2018, The TensorFlow Authors.


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
```

```
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.
    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,
    unless required by applicable law (such as deliberate and grossly
    negligent acts) or agreed to in writing, shall any Contributor be
    liable to You for damages, including any direct, indirect, special,
    incidental, or consequential damages of any character arising as a
    result of this License or out of the use or inability to use the
    Work (including but not limited to damages for loss of goodwill,
    work stoppage, computer failure or malfunction, or any and all
    other commercial damages or losses), even if such Contributor
    has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing
    the Work or Derivative Works thereof, You may choose to offer,
    and charge a fee for, acceptance of support, warranty, indemnity,
    or other liability obligations and/or rights consistent with this
    License. However, in accepting such obligations, You may act only
    on Your own behalf and on Your sole responsibility, not on behalf
    of any other Contributor, and only if You agree to indemnify,
    defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
    of your accepting any such warranty or additional liability.
END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work.
    To apply the Apache License to your work, attach the following
    boilerplate notice, with the fields enclosed by brackets "[]"
    replaced with your own identifying information. (Don't include
    the brackets!)  The text should be enclosed in the appropriate
    comment syntax for the file format. We also recommend that a
    file or class name and description of purpose be included on the
    same "printed page" as the copyright notice for easier
    identification within third-party archives.
Copyright [yyyy] [name of copyright owner]
Licensed under the Apache License, Version 2.0 (the "License");
```

```
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- tensorflow-estimator (Apache License 2.0) [https://github.com/
tensorflow/estimator/tags] -----------
Copyright notice(s):

Copyright 2017, The TensorFlow Authors.


License fulltext:
Copyright 2018 The TensorFlow Authors.  All rights reserved.
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright 2017, The TensorFlow Authors.
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
----------- tensorflow-io-gcs-filesystem (Apache License 2.0) [https://
github.com/tensorflow/io] -----------
Copyright notice(s):

Copyright 2021 The TensorFlow Authors. All Rights Reserved.


License fulltext:
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
   1. Definitions.
      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.
      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."
      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and
      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.
   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.
   END OF TERMS AND CONDITIONS
   APPENDIX: How to apply the Apache License to your work.
      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.
   Copyright [yyyy] [name of copyright owner]
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
       http://www.apache.org/licenses/LICENSE-2.0
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------- termcolor (MIT License) [https://github.com/termcolor/termcolor]
 -----------
Copyright notice(s):

Copyright (c) 2008-2011 Volvox Development Team


License fulltext:
Copyright (c) 2008-2011 Volvox Development Team
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------- werkzeug (BSD 3-Clause "New" or "Revised" License) [https://
github.com/pallets/werkzeug/] -----------
Copyright notice(s):

Copyright 2007 Pallets


License fulltext:
Copyright 2007 Pallets
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------- wrapt (BSD 2-Clause "Simplified" License) [https://github.com/
GrahamDumpleton/wrapt] -----------
Copyright notice(s):

Copyright (c) 2013-2022, Graham Dumpleton



License fulltext:
Copyright (c) 2013-2022, Graham Dumpleton
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
```

```
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

----------- zipp,  (MIT License) [https://github.com/jaraco/zipp]
 -----------
Copyright notice(s):

Copyright Jason R. Coombs



License fulltext:
Copyright Jason R. Coombs
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

---------------- setuptools (MIT License) [https://github.com/pypa/
setuptools/blob/main/LICENSE] ------------
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

---------------- MarkupSafe, h5py, idna   - BSD 3-Clause "New" or
 "Revised" License [https://github.com/pallets/markupsafe/blob/main/
LICENSE.rst]----------------------------
Copyright 2010 Pallets
```

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
    Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

---------------- typing-extensions -- Sync LICENSE with CPython
 [https://github.com/python/typing_extensions/blob/main/LICENSE]
 ------------------------------
A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
```

```
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.
```

```
4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
```

```
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
```

```
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
-------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

---------------------------     whee, gast, charset-normalizer, urllib3 --
 MIT License [https://github.com/pypa/wheel/blob/main/LICENSE.txt] -------
MIT License

Copyright (c) 2012 Daniel Holth <dholth@fastmail.fm> and contributors
```

```
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

--------------------------      packaging [https://github.com/pypa/
packaging/blob/main/LICENSE] ------------------
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

------------------------ certifi [https://github.com/certifi/python-certifi/
blob/master/LICENSE] -------------------------
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $
```

Provider: The Unicode Consortium / Component(s): ICU4J 66.1

```
COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright © 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
```

```
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

---------------------

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software components included within ICU
libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and
 others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
```

```
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.

2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

 #     The Google Chrome software developed by Google is licensed under
 # the BSD license. Other software included in this distribution is
 # provided under other licenses, as set forth below.
 #
 #  The BSD License
 #  http://opensource.org/licenses/bsd-license.php
 #  Copyright (C) 2006-2008, Google Inc.
 #
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 # modification, are permitted provided that the following conditions are
 met:
 #
 #  Redistributions of source code must retain the above copyright notice,
 # this list of conditions and the following disclaimer.
 #  Redistributions in binary form must reproduce the above
 # copyright notice, this list of conditions and the following
 # disclaimer in the documentation and/or other materials provided with
 # the distribution.
 #  Neither the name of  Google Inc. nor the names of its
 # contributors may be used to endorse or promote products derived from
 # this software without specific prior written permission.
 #
 #
 #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 # CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
 # INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 # MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 # DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 # LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 # CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 # SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
 # BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 # LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 # NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
 # SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 #
 #
 #  The word list in cjdict.txt are generated by combining three word lists
 # listed below with further processing for compound word breaking. The
 # frequency is generated with an iterative training against Google web
 # corpora.
 #
 #  * Libtabe (Chinese)
 #    - https://sourceforge.net/project/?group_id=1519
 #    - Its license terms and conditions are shown below.
 #
 #  * IPADIC (Japanese)
 #    - http://chasen.aist-nara.ac.jp/chasen/distribution.html
 #    - Its license terms and conditions are shown below.
 #
 #  ---------COPYING.libtabe ---- BEGIN--------------------
 #
 #  /*
 #   * Copyright (c) 1999 TaBE Project.
```

```
#   * Copyright (c) 1999 Pai-Hsiang Hsiao.
#   * All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the TaBE Project nor the names of its
#   *   contributors may be used to endorse or promote products derived
#   *   from this software without specific prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  /*
#   * Copyright (c) 1999 Computer Systems and Communication Lab,
#   *                    Institute of Information Science, Academia
#       *                    Sinica. All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the Computer Systems and Communication Lab
#   *   nor the names of its contributors may be used to endorse or
#   *   promote products derived from this software without specific
#   *   prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
```

```
#
#  Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
#      University of Illinois
#  c-tsai4@uiuc.edu  http://casper.beckman.uiuc.edu/~c-tsai4
#
#  ---------------COPYING.libtabe-----END--------------------------------
#
#
#  ---------------COPYING.ipadic-----BEGIN-------------------------------
#
#  Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
#  and Technology.  All Rights Reserved.
#
#  Use, reproduction, and distribution of this software is permitted.
#  Any copy of this software, whether in its original form or modified,
#  must include both the above copyright notice and the following
#  paragraphs.
#
#  Nara Institute of Science and Technology (NAIST),
#  the copyright holders, disclaims all warranties with regard to this
#  software, including all implied warranties of merchantability and
#  fitness, in no event shall NAIST be liable for
#  any special, indirect or consequential damages or any damages
#  whatsoever resulting from loss of use, data or profits, whether in an
#  action of contract, negligence or other tortuous action, arising out
#  of or in connection with the use or performance of this software.
#
#  A large portion of the dictionary entries
#  originate from ICOT Free Software.  The following conditions for ICOT
#  Free Software applies to the current dictionary as well.
#
#  Each User may also freely distribute the Program, whether in its
#  original form or modified, to any third party or parties, PROVIDED
#  that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
#  on, or be attached to, the Program, which is distributed substantially
#  in the same form as set out herein and that such intended
#  distribution, if actually made, will neither violate or otherwise
#  contravene any of the laws and regulations of the countries having
#  jurisdiction over the User or the intended distribution itself.
#
#  NO WARRANTY
#
#  The program was produced on an experimental basis in the course of the
#  research and development conducted during the project and is provided
#  to users as so produced on an experimental basis.  Accordingly, the
#  program is provided without any warranty whatsoever, whether express,
#  implied, statutory or otherwise.  The term "warranty" used herein
#  includes, but is not limited to, any warranty of the quality,
#  performance, merchantability and fitness for a particular purpose of
#  the program and the nonexistence of any infringement or violation of
#  any right of any third party.
#
#  Each user of the program will agree and understand, and be deemed to
#  have agreed and understood, that there is no warranty whatsoever for
#  the program and, accordingly, the entire risk arising from or
#  otherwise connected with the program is assumed by the user.
#
#  Therefore, neither ICOT, the copyright holder, or any other
#  organization that participated in or was otherwise related to the
#  development of the program and their respective officials, directors,
#  officers and other employees shall be held liable for any and all
#  damages, including, without limitation, general, special, incidental
#  and consequential damages, arising out of or otherwise in connection
#  with the use or inability to use the program or any product, material
```

```
 #  or result produced or otherwise obtained by using the program,
 #  regardless of whether they have been advised of, or otherwise had
 #  knowledge of, the possibility of such damages at any time during the
 #  project or thereafter.  Each user will be deemed to have agreed to the
 #  foregoing by his or her commencement of use of the program.  The term
 #  "use" as used herein includes, but is not limited to, the use,
 #  modification, copying and distribution of the program and the
 #  production of secondary products from the program.
 #
 #  In the case where the program, whether in its original form or
 #  modified, was distributed or delivered to or received by a user from
 #  any person, organization or entity other than ICOT, unless it makes or
 #  grants independently of ICOT any specific warranty to the user in
 #  writing, such person, organization or entity, will also be exempted
 #  from and not be held liable to the user for any such damages as noted
 #  above as far as the program is concerned.
 #
 #  ---------------COPYING.ipadic-----END----------------------------------

3. Lao Word Break Dictionary Data (laodict.txt)

 #  Copyright (c) 2013 International Business Machines Corporation
 #  and others. All Rights Reserved.
 #
 # Project: http://code.google.com/p/lao-dictionary/
 # Dictionary: http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt
 # License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-
LICENSE.txt
 #              (copied below)
 #
 #  This file is derived from the above dictionary, with slight
 #  modifications.
 #  ----------------------------------------------------------------------
 #  Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 #  modification,
 #  are permitted provided that the following conditions are met:
 #
 #
 # Redistributions of source code must retain the above copyright notice,
 this
 #  list of conditions and the following disclaimer. Redistributions in
 #  binary form must reproduce the above copyright notice, this list of
 #  conditions and the following disclaimer in the documentation and/or
 #  other materials provided with the distribution.
 #
 #
 # THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 # "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 # LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 # FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 # COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 # INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 # (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 # SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 # HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 # STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 # ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 # OF THE POSSIBILITY OF SUCH DAMAGE.
 #
 ---------------------------------------------------------------------------
```

```
4. Burmese Word Break Dictionary Data (burmesedict.txt)

 #  Copyright (c) 2014 International Business Machines Corporation
 #  and others. All Rights Reserved.
 #
 #  This list is part of a project hosted at:
 #    github.com/kanyawtech/myanmar-karen-word-lists
 #
 #
 ---------------------------------------------------------------------------
 #  Copyright (c) 2013, LeRoy Benjamin Sharon
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 #  modification, are permitted provided that the following conditions
 #  are met: Redistributions of source code must retain the above
 #  copyright notice, this list of conditions and the following
 #  disclaimer.  Redistributions in binary form must reproduce the
 #  above copyright notice, this list of conditions and the following
 #  disclaimer in the documentation and/or other materials provided
 #  with the distribution.
 #
 #    Neither the name Myanmar Karen Word Lists, nor the names of its
 #    contributors may be used to endorse or promote products derived
 #    from this software without specific prior written permission.
 #
 #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 #  CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
 #  INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 #  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 #  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 #  BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 #  EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 #  TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 #  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
 #  ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 #  TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 #  THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 #  SUCH DAMAGE.
 #
 ---------------------------------------------------------------------------

5. Time Zone Database

  ICU uses the public domain data and code derived from Time Zone
Database for its time zone support. The ownership of the TZ database
is explained in BCP 175: Procedure for Maintaining the Time Zone
Database section 7.

 # 7.  Database Ownership
 #
 #    The TZ database itself is not an IETF Contribution or an IETF
 #    document.  Rather it is a pre-existing and regularly updated work
 #    that is in the public domain, and is intended to remain in the
 #    public domain.  Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
 #    not apply to the TZ Database or contributions that individuals make
 #    to it.  Should any claims be made and substantiated against the TZ
 #    Database, the organization that is providing the IANA
 #    Considerations defined in this RFC, under the memorandum of
 #    understanding with the IETF, currently ICANN, may act in accordance
 #    with all competent court orders.  No ownership claims will be made
 #    by ICANN or the IETF Trust on the database or the code.  Any person
 #    making a contribution to the database or code waives all rights to
```

```
#    future claims in that contribution or in the TZ Database.
```

Provider: The Unicode Consortium / Component(s): ICU4J 68.2

```
************************************************************
********* Copied from LT Public License & Copyright Notices *********

COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)
Copyright © 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/
copyright.html.
Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.
THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.
Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.
---------------------
Third-Party Software Licenses
This section contains third-party software notices and/or additional
terms for licensed third-party software components included within ICU
libraries.
1. ICU License - ICU 1.8.1 to ICU 57.1
COPYRIGHT AND PERMISSION NOTICE
Copyright (c) 1995-2016 International Business Machines Corporation and
 others
All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
```

```
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.
All trademarks and registered trademarks mentioned herein are the
property of their respective owners.
2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)
 #     The Google Chrome software developed by Google is licensed under
 # the BSD license. Other software included in this distribution is
 # provided under other licenses, as set forth below.
 #
 #  The BSD License
 #  http://opensource.org/licenses/bsd-license.php
 #  Copyright (C) 2006-2008, Google Inc.
 #
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 # modification, are permitted provided that the following conditions are
 met:
 #
 #  Redistributions of source code must retain the above copyright notice,
 # this list of conditions and the following disclaimer.
 #  Redistributions in binary form must reproduce the above
 # copyright notice, this list of conditions and the following
 # disclaimer in the documentation and/or other materials provided with
 # the distribution.
 #  Neither the name of  Google Inc. nor the names of its
 # contributors may be used to endorse or promote products derived from
 # this software without specific prior written permission.
 #
 #
 #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 # CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
 # INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 # MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 # DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 # LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 # CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 # SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
 # BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 # LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 # NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
 # SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 #
 #
 #  The word list in cjdict.txt are generated by combining three word lists
 # listed below with further processing for compound word breaking. The
 # frequency is generated with an iterative training against Google web
 # corpora.
 #
 #  * Libtabe (Chinese)
 #    - https://sourceforge.net/project/?group_id=1519
 #    - Its license terms and conditions are shown below.
 #
 #  * IPADIC (Japanese)
 #    - http://chasen.aist-nara.ac.jp/chasen/distribution.html
 #    - Its license terms and conditions are shown below.
 #
 #  ---------COPYING.libtabe ---- BEGIN--------------------
 #
```

```
#  /*
#   * Copyright (c) 1999 TaBE Project.
#   * Copyright (c) 1999 Pai-Hsiang Hsiao.
#   * All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the TaBE Project nor the names of its
#   *   contributors may be used to endorse or promote products derived
#   *   from this software without specific prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  /*
#   * Copyright (c) 1999 Computer Systems and Communication Lab,
#   *                    Institute of Information Science, Academia
#       *                    Sinica. All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the Computer Systems and Communication Lab
#   *   nor the names of its contributors may be used to endorse or
#   *   promote products derived from this software without specific
#   *   prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
```

```
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
#      University of Illinois
#  c-tsai4@uiuc.edu  http://casper.beckman.uiuc.edu/~c-tsai4
#
#  ---------------COPYING.libtabe-----END-------------------------------
#
#
#  ---------------COPYING.ipadic-----BEGIN------------------------------
#
#  Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
#  and Technology.  All Rights Reserved.
#
#  Use, reproduction, and distribution of this software is permitted.
#  Any copy of this software, whether in its original form or modified,
#  must include both the above copyright notice and the following
#  paragraphs.
#
#  Nara Institute of Science and Technology (NAIST),
#  the copyright holders, disclaims all warranties with regard to this
#  software, including all implied warranties of merchantability and
#  fitness, in no event shall NAIST be liable for
#  any special, indirect or consequential damages or any damages
#  whatsoever resulting from loss of use, data or profits, whether in an
#  action of contract, negligence or other tortuous action, arising out
#  of or in connection with the use or performance of this software.
#
#  A large portion of the dictionary entries
#  originate from ICOT Free Software.  The following conditions for ICOT
#  Free Software applies to the current dictionary as well.
#
#  Each User may also freely distribute the Program, whether in its
#  original form or modified, to any third party or parties, PROVIDED
#  that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
#  on, or be attached to, the Program, which is distributed substantially
#  in the same form as set out herein and that such intended
#  distribution, if actually made, will neither violate or otherwise
#  contravene any of the laws and regulations of the countries having
#  jurisdiction over the User or the intended distribution itself.
#
#  NO WARRANTY
#
#  The program was produced on an experimental basis in the course of the
#  research and development conducted during the project and is provided
#  to users as so produced on an experimental basis.  Accordingly, the
#  program is provided without any warranty whatsoever, whether express,
#  implied, statutory or otherwise.  The term "warranty" used herein
#  includes, but is not limited to, any warranty of the quality,
#  performance, merchantability and fitness for a particular purpose of
#  the program and the nonexistence of any infringement or violation of
#  any right of any third party.
#
#  Each user of the program will agree and understand, and be deemed to
#  have agreed and understood, that there is no warranty whatsoever for
#  the program and, accordingly, the entire risk arising from or
#  otherwise connected with the program is assumed by the user.
#
#  Therefore, neither ICOT, the copyright holder, or any other
#  organization that participated in or was otherwise related to the
#  development of the program and their respective officials, directors,
#  officers and other employees shall be held liable for any and all
#  damages, including, without limitation, general, special, incidental
```

```
 #  and consequential damages, arising out of or otherwise in connection
 #  with the use or inability to use the program or any product, material
 #  or result produced or otherwise obtained by using the program,
 #  regardless of whether they have been advised of, or otherwise had
 #  knowledge of, the possibility of such damages at any time during the
 #  project or thereafter.  Each user will be deemed to have agreed to the
 #  foregoing by his or her commencement of use of the program.  The term
 #  "use" as used herein includes, but is not limited to, the use,
 #  modification, copying and distribution of the program and the
 #  production of secondary products from the program.
 #
 #  In the case where the program, whether in its original form or
 #  modified, was distributed or delivered to or received by a user from
 #  any person, organization or entity other than ICOT, unless it makes or
 #  grants independently of ICOT any specific warranty to the user in
 #  writing, such person, organization or entity, will also be exempted
 #  from and not be held liable to the user for any such damages as noted
 #  above as far as the program is concerned.
 #
 #  ---------------COPYING.ipadic-----END----------------------------------
3. Lao Word Break Dictionary Data (laodict.txt)
 #  Copyright (c) 2013 International Business Machines Corporation
 #  and others. All Rights Reserved.
 #
 # Project: http://code.google.com/p/lao-dictionary/
 # Dictionary: http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt
 # License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-
LICENSE.txt
 #              (copied below)
 #
 #  This file is derived from the above dictionary, with slight
 #  modifications.
 #  ----------------------------------------------------------------------
 #  Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 #  modification,
 #  are permitted provided that the following conditions are met:
 #
 #
 # Redistributions of source code must retain the above copyright notice,
 this
 #  list of conditions and the following disclaimer. Redistributions in
 #  binary form must reproduce the above copyright notice, this list of
 #  conditions and the following disclaimer in the documentation and/or
 #  other materials provided with the distribution.
 #
 #
 # THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 # "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 # LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 # FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 # COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 # INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 # (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 # SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 # HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 # STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 # ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 # OF THE POSSIBILITY OF SUCH DAMAGE.
 #
 ---------------------------------------------------------------------------
4. Burmese Word Break Dictionary Data (burmesedict.txt)
```

```
 #  Copyright (c) 2014 International Business Machines Corporation
 #  and others. All Rights Reserved.
 #
 #  This list is part of a project hosted at:
 #    github.com/kanyawtech/myanmar-karen-word-lists
 #
 #
 ---------------------------------------------------------------------------
 #  Copyright (c) 2013, LeRoy Benjamin Sharon
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 #  modification, are permitted provided that the following conditions
 #  are met: Redistributions of source code must retain the above
 #  copyright notice, this list of conditions and the following
 #  disclaimer.  Redistributions in binary form must reproduce the
 #  above copyright notice, this list of conditions and the following
 #  disclaimer in the documentation and/or other materials provided
 #  with the distribution.
 #
 #    Neither the name Myanmar Karen Word Lists, nor the names of its
 #    contributors may be used to endorse or promote products derived
 #    from this software without specific prior written permission.
 #
 #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 #  CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
 #  INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 #  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 #  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 #  BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 #  EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 #  TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 #  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
 #  ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 #  TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 #  THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 #  SUCH DAMAGE.
 #
 ---------------------------------------------------------------------------
5. Time Zone Database
  ICU uses the public domain data and code derived from Time Zone
Database for its time zone support. The ownership of the TZ database
is explained in BCP 175: Procedure for Maintaining the Time Zone
Database section 7.
 # 7.  Database Ownership
 #
 #    The TZ database itself is not an IETF Contribution or an IETF
 #    document.  Rather it is a pre-existing and regularly updated work
 #    that is in the public domain, and is intended to remain in the
 #    public domain.  Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
 #    not apply to the TZ Database or contributions that individuals make
 #    to it.  Should any claims be made and substantiated against the TZ
 #    Database, the organization that is providing the IANA
 #    Considerations defined in this RFC, under the memorandum of
 #    understanding with the IETF, currently ICANN, may act in accordance
 #    with all competent court orders.  No ownership claims will be made
 #    by ICANN or the IETF Trust on the database or the code.  Any person
 #    making a contribution to the database or code waives all rights to
 #    future claims in that contribution or in the TZ Database.
6. Google double-conversion
Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
```

```
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
---------  --------- --------- --------- --------- --------- ---------
 --------- --------- ---------
From https://www.unicode.org/copyright.html:
    Unicode® Copyright and Terms of Use
    For the general privacy policy governing access to this site, see the
 Unicode Privacy Policy.
        Unicode Copyright
            Copyright © 1991-2020 Unicode, Inc. All rights reserved.
        Definitions
        Unicode Data Files ("DATA FILES") include all data files under the
 directories:
        https://www.unicode.org/Public/
        https://www.unicode.org/reports/
        https://www.unicode.org/ivd/data/
        Unicode Data Files do not include PDF online code charts under the
 directory:
        https://www.unicode.org/Public/
        Unicode Software ("SOFTWARE") includes any source code published in
 the Unicode Standard
        or any source code or compiled code under the directories:
        https://www.unicode.org/Public/PROGRAMS/
        https://www.unicode.org/Public/cldr/
        http://site.icu-project.org/download/
        Terms of Use
            Certain documents and files on this website contain a legend
 indicating that "Modification is permitted." Any person is hereby
 authorized, without fee, to modify such documents and files to create
 derivative works conforming to the Unicode® Standard, subject to Terms and
 Conditions herein.
            Any person is hereby authorized, without fee, to view, use,
 reproduce, and distribute all documents and files, subject to the Terms and
 Conditions herein.
            Further specifications of rights and restrictions pertaining to
 the use of the Unicode DATA FILES and SOFTWARE can be found in the Unicode
 Data Files and Software License.
            Each version of the Unicode Standard has further specifications
 of rights and restrictions of use. For the book editions (Unicode 5.0 and
 earlier), these are found on the back of the title page.
            The Unicode PDF online code charts carry specific restrictions.
 Those restrictions are incorporated as the first page of each PDF code
 chart.
            All other files, including online documentation of the core
 specification for Unicode 6.0 and later, are covered under these general
 Terms of Use.
```

No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. “The Unicode Consortium” and “Unicode, Inc.” are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.’s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (“Trademark Policy”) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user

```
agrees said courts have personal jurisdiction and agree to waive any right
to transfer the dispute to any other forum.
          Modification by Unicode, Inc. Unicode, Inc. shall have the right
to modify this Agreement at any time by posting it to this website. The
user may not assign any part of this Agreement without Unicode, Inc.’s
prior written consent.
          Taxes. The user agrees to pay any taxes arising from access to
this website or use of the information herein, except for those based on
Unicode’s net income.
          Severability.  If any provision of this Agreement is declared
invalid or unenforceable, the remaining provisions of this Agreement shall
remain in effect.
          Entire Agreement. This Agreement constitutes the entire
agreement between the parties.
```

Provider: The Unicode Consortium / Component(s): ICU4J 69.1

```
COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright © 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/
copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

---------------------

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software components included within ICU
libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1
```

```
COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and
 others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.

2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

 #     The Google Chrome software developed by Google is licensed under
 # the BSD license. Other software included in this distribution is
 # provided under other licenses, as set forth below.
 #
 #  The BSD License
 #  http://opensource.org/licenses/bsd-license.php
 #  Copyright (C) 2006-2008, Google Inc.
 #
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 # modification, are permitted provided that the following conditions are
 met:
 #
 #  Redistributions of source code must retain the above copyright notice,
 # this list of conditions and the following disclaimer.
 #  Redistributions in binary form must reproduce the above
 # copyright notice, this list of conditions and the following
 # disclaimer in the documentation and/or other materials provided with
 # the distribution.
 #  Neither the name of  Google Inc. nor the names of its
 # contributors may be used to endorse or promote products derived from
 # this software without specific prior written permission.
 #
 #
 #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 # CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
```

```
# INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
# DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
# LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
# BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
# LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
# NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
# SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
#
#  The word list in cjdict.txt are generated by combining three word lists
# listed below with further processing for compound word breaking. The
# frequency is generated with an iterative training against Google web
# corpora.
#
#  * Libtabe (Chinese)
#    - https://sourceforge.net/project/?group_id=1519
#    - Its license terms and conditions are shown below.
#
#  * IPADIC (Japanese)
#    - http://chasen.aist-nara.ac.jp/chasen/distribution.html
#    - Its license terms and conditions are shown below.
#
#  ---------COPYING.libtabe ---- BEGIN--------------------
#
#  /*
#   * Copyright (c) 1999 TaBE Project.
#   * Copyright (c) 1999 Pai-Hsiang Hsiao.
#   * All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the TaBE Project nor the names of its
#   *   contributors may be used to endorse or promote products derived
#   *   from this software without specific prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  /*
#   * Copyright (c) 1999 Computer Systems and Communication Lab,
#   *                    Institute of Information Science, Academia
#       *                   Sinica. All rights reserved.
```

```
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the Computer Systems and Communication Lab
#   *   nor the names of its contributors may be used to endorse or
#   *   promote products derived from this software without specific
#   *   prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
#      University of Illinois
#  c-tsai4@uiuc.edu  http://casper.beckman.uiuc.edu/~c-tsai4
#
#  ---------------COPYING.libtabe-----END-------------------------------
#
#
#  ---------------COPYING.ipadic-----BEGIN------------------------------
#
#  Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
#  and Technology.  All Rights Reserved.
#
#  Use, reproduction, and distribution of this software is permitted.
#  Any copy of this software, whether in its original form or modified,
#  must include both the above copyright notice and the following
#  paragraphs.
#
#  Nara Institute of Science and Technology (NAIST),
#  the copyright holders, disclaims all warranties with regard to this
#  software, including all implied warranties of merchantability and
#  fitness, in no event shall NAIST be liable for
#  any special, indirect or consequential damages or any damages
#  whatsoever resulting from loss of use, data or profits, whether in an
#  action of contract, negligence or other tortuous action, arising out
#  of or in connection with the use or performance of this software.
#
#  A large portion of the dictionary entries
#  originate from ICOT Free Software.  The following conditions for ICOT
#  Free Software applies to the current dictionary as well.
#
#  Each User may also freely distribute the Program, whether in its
#  original form or modified, to any third party or parties, PROVIDED
#  that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
#  on, or be attached to, the Program, which is distributed substantially
```

```
 #  in the same form as set out herein and that such intended
 #  distribution, if actually made, will neither violate or otherwise
 #  contravene any of the laws and regulations of the countries having
 #  jurisdiction over the User or the intended distribution itself.
 #
 #  NO WARRANTY
 #
 #  The program was produced on an experimental basis in the course of the
 #  research and development conducted during the project and is provided
 #  to users as so produced on an experimental basis.  Accordingly, the
 #  program is provided without any warranty whatsoever, whether express,
 #  implied, statutory or otherwise.  The term "warranty" used herein
 #  includes, but is not limited to, any warranty of the quality,
 #  performance, merchantability and fitness for a particular purpose of
 #  the program and the nonexistence of any infringement or violation of
 #  any right of any third party.
 #
 #  Each user of the program will agree and understand, and be deemed to
 #  have agreed and understood, that there is no warranty whatsoever for
 #  the program and, accordingly, the entire risk arising from or
 #  otherwise connected with the program is assumed by the user.
 #
 #  Therefore, neither ICOT, the copyright holder, or any other
 #  organization that participated in or was otherwise related to the
 #  development of the program and their respective officials, directors,
 #  officers and other employees shall be held liable for any and all
 #  damages, including, without limitation, general, special, incidental
 #  and consequential damages, arising out of or otherwise in connection
 #  with the use or inability to use the program or any product, material
 #  or result produced or otherwise obtained by using the program,
 #  regardless of whether they have been advised of, or otherwise had
 #  knowledge of, the possibility of such damages at any time during the
 #  project or thereafter.  Each user will be deemed to have agreed to the
 #  foregoing by his or her commencement of use of the program.  The term
 #  "use" as used herein includes, but is not limited to, the use,
 #  modification, copying and distribution of the program and the
 #  production of secondary products from the program.
 #
 #  In the case where the program, whether in its original form or
 #  modified, was distributed or delivered to or received by a user from
 #  any person, organization or entity other than ICOT, unless it makes or
 #  grants independently of ICOT any specific warranty to the user in
 #  writing, such person, organization or entity, will also be exempted
 #  from and not be held liable to the user for any such damages as noted
 #  above as far as the program is concerned.
 #
 #  ---------------COPYING.ipadic-----END----------------------------------

3. Lao Word Break Dictionary Data (laodict.txt)

 # Copyright (C) 2016 and later: Unicode, Inc. and others.
 # License & terms of use: http://www.unicode.org/copyright.html
 # Copyright (c) 2015 International Business Machines Corporation
 # and others. All Rights Reserved.
 #
 # Project: https://github.com/rober42539/lao-dictionary
 # Dictionary: https://github.com/rober42539/lao-dictionary/laodict.txt
 # License: https://github.com/rober42539/lao-dictionary/LICENSE.txt
 #          (copied below)
 #
 # This file is derived from the above dictionary version of Nov 22, 2020
 #  ----------------------------------------------------------------------
 #  Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
 #  All rights reserved.
```

```
 #
 #  Redistribution and use in source and binary forms, with or without
 #  modification, are permitted provided that the following conditions are
 met:
 #
 #  Redistributions of source code must retain the above copyright notice,
 this
 #  list of conditions and the following disclaimer. Redistributions in
 binary
 #  form must reproduce the above copyright notice, this list of conditions
 and
 #  the following disclaimer in the documentation and/or ther materials
 #  provided with the distribution.
 #
 # THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 # "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 # LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 # FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 # COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 # INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 # (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 # SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 # HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 # STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 # ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 # OF THE POSSIBILITY OF SUCH DAMAGE.
 #
 ---------------------------------------------------------------------------

4. Burmese Word Break Dictionary Data (burmesedict.txt)

 #  Copyright (c) 2014 International Business Machines Corporation
 #  and others. All Rights Reserved.
 #
 #  This list is part of a project hosted at:
 #    github.com/kanyawtech/myanmar-karen-word-lists
 #
 #
 ---------------------------------------------------------------------------
 #  Copyright (c) 2013, LeRoy Benjamin Sharon
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 #  modification, are permitted provided that the following conditions
 #  are met: Redistributions of source code must retain the above
 #  copyright notice, this list of conditions and the following
 #  disclaimer.  Redistributions in binary form must reproduce the
 #  above copyright notice, this list of conditions and the following
 #  disclaimer in the documentation and/or other materials provided
 #  with the distribution.
 #
 #    Neither the name Myanmar Karen Word Lists, nor the names of its
 #    contributors may be used to endorse or promote products derived
 #    from this software without specific prior written permission.
 #
 #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 #  CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
 #  INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 #  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 #  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 #  BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 #  EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 #  TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 #  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
```

```
 #  ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 #  TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 #  THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 #  SUCH DAMAGE.
 #
 ---------------------------------------------------------------------------

5. Time Zone Database

  ICU uses the public domain data and code derived from Time Zone
Database for its time zone support. The ownership of the TZ database
is explained in BCP 175: Procedure for Maintaining the Time Zone
Database section 7.

 # 7.  Database Ownership
 #
 #    The TZ database itself is not an IETF Contribution or an IETF
 #    document.  Rather it is a pre-existing and regularly updated work
 #    that is in the public domain, and is intended to remain in the
 #    public domain.  Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
 #    not apply to the TZ Database or contributions that individuals make
 #    to it.  Should any claims be made and substantiated against the TZ
 #    Database, the organization that is providing the IANA
 #    Considerations defined in this RFC, under the memorandum of
 #    understanding with the IETF, currently ICANN, may act in accordance
 #    with all competent court orders.  No ownership claims will be made
 #    by ICANN or the IETF Trust on the database or the code.  Any person
 #    making a contribution to the database or code waives all rights to
 #    future claims in that contribution or in the TZ Database.

6. Google double-conversion

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: The University of Maryland / Component(s): FindBugs annotations 3.0.1

```
FindBugs annotations

SPDX:LGPL-2.1

            GNU LESSER GENERAL PUBLIC LICENSE
                Version 2.1, February 1999

    Copyright (C) 1991, 1999 Free Software Foundation, Inc.
        59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
    Everyone is permitted to copy and distribute verbatim copies
    of this license document, but changing it is not allowed.

    [This is the first released version of the Lesser GPL.  It also counts
    as the successor of the GNU Library Public License, version 2, hence
    the version number 2.1.]

                    Preamble

    The licenses for most software are designed to take away your
    freedom to share and change it.  By contrast, the GNU General Public
    Licenses are intended to guarantee your freedom to share and change
    free software--to make sure the software is free for all its users.

    This license, the Lesser General Public License, applies to some
    specially designated software packages--typically libraries--of the
    Free Software Foundation and other authors who decide to use it.  You
    can use it too, but we suggest you first think carefully about whether
    this license or the ordinary General Public License is the better
    strategy to use in any particular case, based on the explanations below.

    When we speak of free software, we are referring to freedom of use,
    not price.  Our General Public Licenses are designed to make sure that
    you have the freedom to distribute copies of free software (and charge
    for this service if you wish); that you receive source code or can get
    it if you want it; that you can change the software and use pieces of
    it in new free programs; and that you are informed that you can do
    these things.

    To protect your rights, we need to make restrictions that forbid
    distributors to deny you these rights or to ask you to surrender these
    rights.  These restrictions translate to certain responsibilities for
    you if you distribute copies of the library or if you modify it.

    For example, if you distribute copies of the library, whether gratis
    or for a fee, you must give the recipients all the rights that we gave
    you.  You must make sure that they, too, receive or can get the source
    code.  If you link other code with the library, you must provide
    complete object files to the recipients, so that they can relink them
    with the library after making changes to the library and recompiling
    it.  And you must show them these terms so they know their rights.

    We protect your rights with a two-step method: (1) we copyright the
    library, and (2) we offer you this license, which gives you legal
    permission to copy, distribute and/or modify the library.

    To protect each distributor, we want to make it very clear that
    there is no warranty for the free library.  Also, if the library is
    modified by someone else and passed on, the recipients should know
    that what they have is not the original version, so that the original
    author's reputation will not be affected by problems that might be
    introduced by others.
```

```
   Finally, software patents pose a constant threat to the existence of
   any free program.  We wish to make sure that a company cannot
   effectively restrict the users of a free program by obtaining a
   restrictive license from a patent holder.  Therefore, we insist that
   any patent license obtained for a version of the library must be
   consistent with the full freedom of use specified in this license.

   Most GNU software, including some libraries, is covered by the
   ordinary GNU General Public License.  This license, the GNU Lesser
   General Public License, applies to certain designated libraries, and
   is quite different from the ordinary General Public License.  We use
   this license for certain libraries in order to permit linking those
   libraries into non-free programs.

   When a program is linked with a library, whether statically or using
   a shared library, the combination of the two is legally speaking a
   combined work, a derivative of the original library.  The ordinary
   General Public License therefore permits such linking only if the
   entire combination fits its criteria of freedom.  The Lesser General
   Public License permits more lax criteria for linking other code with
   the library.

   We call this license the "Lesser" General Public License because it
   does Less to protect the user's freedom than the ordinary General
   Public License.  It also provides other free software developers Less
   of an advantage over competing non-free programs.  These disadvantages
   are the reason we use the ordinary General Public License for many
   libraries.  However, the Lesser license provides advantages in certain
   special circumstances.

   For example, on rare occasions, there may be a special need to
   encourage the widest possible use of a certain library, so that it
becomes
   a de-facto standard.  To achieve this, non-free programs must be
   allowed to use the library.  A more frequent case is that a free
   library does the same job as widely used non-free libraries.  In this
   case, there is little to gain by limiting the free library to free
   software only, so we use the Lesser General Public License.

   In other cases, permission to use a particular library in non-free
   programs enables a greater number of people to use a large body of
   free software.  For example, permission to use the GNU C Library in
   non-free programs enables many more people to use the whole GNU
   operating system, as well as its variant, the GNU/Linux operating
   system.

   Although the Lesser General Public License is Less protective of the
   users' freedom, it does ensure that the user of a program that is
   linked with the Library has the freedom and the wherewithal to run
   that program using a modified version of the Library.

   The precise terms and conditions for copying, distribution and
   modification follow.  Pay close attention to the difference between a
   "work based on the library" and a "work that uses the library".  The
   former contains code derived from the library, whereas the latter must
   be combined with the library in order to run.

           GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

   0. This License Agreement applies to any software library or other
   program which contains a notice placed by the copyright holder or
   other authorized party saying it may be distributed under the terms of
```

```
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
```

```
        application.  Therefore, Subsection 2d requires that any
        application-supplied function or table used by this function must
        be optional: if the application does not supply it, the square
        root function must still compute square roots.)

    These requirements apply to the modified work as a whole.  If
    identifiable sections of that work are not derived from the Library,
    and can be reasonably considered independent and separate works in
    themselves, then this License, and its terms, do not apply to those
    sections when you distribute them as separate works.  But when you
    distribute the same sections as part of a whole which is a work based
    on the Library, the distribution of the whole must be on the terms of
    this License, whose permissions for other licensees extend to the
    entire whole, and thus to each and every part regardless of who wrote
    it.

    Thus, it is not the intent of this section to claim rights or contest
    your rights to work written entirely by you; rather, the intent is to
    exercise the right to control the distribution of derivative or
    collective works based on the Library.

    In addition, mere aggregation of another work not based on the Library
    with the Library (or with a work based on the Library) on a volume of
    a storage or distribution medium does not bring the other work under
    the scope of this License.

    3. You may opt to apply the terms of the ordinary GNU General Public
    License instead of this License to a given copy of the Library.  To do
    this, you must alter all the notices that refer to this License, so
    that they refer to the ordinary GNU General Public License, version 2,
    instead of to this License.  (If a newer version than version 2 of the
    ordinary GNU General Public License has appeared, then you can specify
    that version instead if you wish.)  Do not make any other change in
    these notices.

    Once this change is made in a given copy, it is irreversible for
    that copy, so the ordinary GNU General Public License applies to all
    subsequent copies and derivative works made from that copy.

    This option is useful when you wish to copy part of the code of
    the Library into a program that is not a library.

    4. You may copy and distribute the Library (or a portion or
    derivative of it, under Section 2) in object code or executable form
    under the terms of Sections 1 and 2 above provided that you accompany
    it with the complete corresponding machine-readable source code, which
    must be distributed under the terms of Sections 1 and 2 above on a
    medium customarily used for software interchange.

    If distribution of object code is made by offering access to copy
    from a designated place, then offering equivalent access to copy the
    source code from the same place satisfies the requirement to
    distribute the source code, even though third parties are not
    compelled to copy the source along with the object code.

    5. A program that contains no derivative of any portion of the
    Library, but is designed to work with the Library by being compiled or
    linked with it, is called a "work that uses the Library".  Such a
    work, in isolation, is not a derivative work of the Library, and
    therefore falls outside the scope of this License.

    However, linking a "work that uses the Library" with the Library
    creates an executable that is a derivative of the Library (because it
    contains portions of the Library), rather than a "work that uses the
```

```
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
```

```
        specified materials from the same place.

        e) Verify that the user has already received a copy of these
        materials or that you have already sent this user a copy.

    For an executable, the required form of the "work that uses the
    Library" must include any data and utility programs needed for
    reproducing the executable from it.  However, as a special exception,
    the materials to be distributed need not include anything that is
    normally distributed (in either source or binary form) with the major
    components (compiler, kernel, and so on) of the operating system on
    which the executable runs, unless that component itself accompanies
    the executable.

    It may happen that this requirement contradicts the license
    restrictions of other proprietary libraries that do not normally
    accompany the operating system.  Such a contradiction means you cannot
    use both them and the Library together in an executable that you
    distribute.

    7. You may place library facilities that are a work based on the
    Library side-by-side in a single library together with other library
    facilities not covered by this License, and distribute such a combined
    library, provided that the separate distribution of the work based on
    the Library and of the other library facilities is otherwise
    permitted, and provided that you do these two things:

        a) Accompany the combined library with a copy of the same work
        based on the Library, uncombined with any other library
        facilities.  This must be distributed under the terms of the
        Sections above.

        b) Give prominent notice with the combined library of the fact
        that part of it is a work based on the Library, and explaining
        where to find the accompanying uncombined form of the same work.

    8. You may not copy, modify, sublicense, link with, or distribute
    the Library except as expressly provided under this License.  Any
    attempt otherwise to copy, modify, sublicense, link with, or
    distribute the Library is void, and will automatically terminate your
    rights under this License.  However, parties who have received copies,
    or rights, from you under this License will not have their licenses
    terminated so long as such parties remain in full compliance.

    9. You are not required to accept this License, since you have not
    signed it.  However, nothing else grants you permission to modify or
    distribute the Library or its derivative works.  These actions are
    prohibited by law if you do not accept this License.  Therefore, by
    modifying or distributing the Library (or any work based on the
    Library), you indicate your acceptance of this License to do so, and
    all its terms and conditions for copying, distributing or modifying
    the Library or works based on it.

    10. Each time you redistribute the Library (or any work based on the
    Library), the recipient automatically receives a license from the
    original licensor to copy, distribute, link with or modify the Library
    subject to these terms and conditions.  You may not impose any further
    restrictions on the recipients' exercise of the rights granted herein.
    You are not responsible for enforcing compliance by third parties with
    this License.

    11. If, as a consequence of a court judgment or allegation of patent
    infringement or for any other reason (not limited to patent issues),
    conditions are imposed on you (whether by court order, agreement or
```

```
   otherwise) that contradict the conditions of this License, they do not
   excuse you from the conditions of this License.  If you cannot
   distribute so as to satisfy simultaneously your obligations under this
   License and any other pertinent obligations, then as a consequence you
   may not distribute the Library at all.  For example, if a patent
   license would not permit royalty-free redistribution of the Library by
   all those who receive copies directly or indirectly through you, then
   the only way you could satisfy both it and this License would be to
   refrain entirely from distribution of the Library.

   If any portion of this section is held invalid or unenforceable under
any
   particular circumstance, the balance of the section is intended to
apply,
   and the section as a whole is intended to apply in other circumstances.

   It is not the purpose of this section to induce you to infringe any
   patents or other property right claims or to contest validity of any
   such claims; this section has the sole purpose of protecting the
   integrity of the free software distribution system which is
   implemented by public license practices.  Many people have made
   generous contributions to the wide range of software distributed
   through that system in reliance on consistent application of that
   system; it is up to the author/donor to decide if he or she is willing
   to distribute software through any other system and a licensee cannot
   impose that choice.

   This section is intended to make thoroughly clear what is believed to
   be a consequence of the rest of this License.

   12. If the distribution and/or use of the Library is restricted in
   certain countries either by patents or by copyrighted interfaces, the
   original copyright holder who places the Library under this License may
add
   an explicit geographical distribution limitation excluding those
countries,
   so that distribution is permitted only in or among countries not thus
   excluded.  In such case, this License incorporates the limitation as if
   written in the body of this License.

   13. The Free Software Foundation may publish revised and/or new
   versions of the Lesser General Public License from time to time.
   Such new versions will be similar in spirit to the present version,
   but may differ in detail to address new problems or concerns.

   Each version is given a distinguishing version number.  If the Library
   specifies a version number of this License which applies to it and
   "any later version", you have the option of following the terms and
   conditions either of that version or of any later version published by
   the Free Software Foundation.  If the Library does not specify a
   license version number, you may choose any version ever published by
   the Free Software Foundation.

   14. If you wish to incorporate parts of the Library into other free
   programs whose distribution conditions are incompatible with these,
   write to the author to ask for permission.  For software which is
   copyrighted by the Free Software Foundation, write to the Free
   Software Foundation; we sometimes make exceptions for this.  Our
   decision will be guided by the two goals of preserving the free status
   of all derivatives of our free software and of promoting the sharing
   and reuse of software generally.

                     NO WARRANTY
```

```
   15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
   WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
   EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
   OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
   KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
   IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
   PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
   LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
   THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

   16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
   WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
   AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
   FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
   CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
   LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
   RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
   FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
   SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
   DAMAGES.

               END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

   If you develop a new library, and you want it to be of the greatest
   possible use to the public, we recommend making it free software that
   everyone can redistribute and change.  You can do so by permitting
   redistribution under these terms (or, alternatively, under the terms of
the
   ordinary General Public License).

   To apply these terms, attach the following notices to the library.  It
is
   safest to attach them to the start of each source file to most
effectively
   convey the exclusion of warranty; and each file should have at least the
   "copyright" line and a pointer to where the full notice is found.

       <one line to give the library's name and a brief idea of what it
does.>
       Copyright (C) <year>  <name of author>

       This library is free software; you can redistribute it and/or
       modify it under the terms of the GNU Lesser General Public
       License as published by the Free Software Foundation; either
       version 2.1 of the License, or (at your option) any later version.

       This library is distributed in the hope that it will be useful,
       but WITHOUT ANY WARRANTY; without even the implied warranty of
       MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
       Lesser General Public License for more details.

       You should have received a copy of the GNU Lesser General Public
       License along with this library; if not, write to the Free Software
       Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307
 USA

   Also add information on how to contact you by electronic and paper mail.

   You should also get your employer (if you work as a programmer) or your
   school, if any, to sign a "copyright disclaimer" for the library, if
   necessary.  Here is a sample; alter the names:
```

```
    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    library `Frob' (a library for tweaking knobs) written by James Random
 Hacker.

    <signature of Ty Coon>, 1 April 1990
    Ty Coon, President of Vice

    That's all there is to it!


----------------------- Dependencies Grouped by License ------------
-------- Dependencies Summary
commons-lang:commons-lang:2.6
com.google.code.findbugs:bcel-findbugs:6.0
org.apache.ant:ant-launcher:1.7.1
org.apache.ant:ant:1.7.1
xml-apis:xml-apis:1.0.b2

-------- License used by Dependencies
SPDX:Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
```

```
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
```

```
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
```

```
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.


----------------------- Dependencies Grouped by License ------------
-------- Dependencies Summary
org.ow2.asm:asm-commons:5.0.2
org.ow2.asm:asm-debug-all:5.0.2
org.ow2.asm:asm-tree:5.0.2
org.ow2.asm:asm:5.0.2

-------- License used by Dependencies

    Copyright (c) 2000-2005 INRIA, France Telecom
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

    3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
    LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
    SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
    INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
    CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
    ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
    THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependencies Summary
com.apple:AppleJavaExtensions:1.4

-------- License used by Dependencies

    AppleJavaExtensions
    v 1.2

    This is a pluggable jar of stub classes representing the new Apple
 eAWT and eIO APIs for Java 1.4 on Mac OS X.  The purpose of these stubs
 is to allow for compilation of eAWT- or eIO-referencing code on platforms
 other than Mac OS X.  The jar file is enclosed in a zip archive for easy
 expansion on other platforms.
```

```
    These stubs are not intended for the runtime classpath on non-Mac
 platforms.  Please see the OSXAdapter sample for how to write cross-
platform code that uses eAWT.

    Disclaimer: IMPORTANT:  This Apple software is supplied to you by Apple
    Computer, Inc. ("Apple") in consideration of your agreement to the
    following terms, and your use, installation, modification or
    redistribution of this Apple software constitutes acceptance of these
    terms.  If you do not agree with these terms, please do not use,
    install, modify or redistribute this Apple software.

    In consideration of your agreement to abide by the following terms, and
    subject to these terms, Apple grants you a personal, non-exclusive
    license, under Apple's copyrights in this original Apple software (the
    "Apple Software"), to use, reproduce, modify and redistribute the Apple
    Software, with or without modifications, in source and/or binary forms;
    provided that if you redistribute the Apple Software in its entirety and
    without modifications, you must retain this notice and the following
    text and disclaimers in all such redistributions of the Apple Software.
    Neither the name, trademarks, service marks or logos of Apple Computer,
    Inc. may be used to endorse or promote products derived from the Apple
    Software without specific prior written permission from Apple.  Except
    as expressly stated in this notice, no other rights or licenses, express
    or implied, are granted by Apple herein, including but not limited to
    any patent rights that may be infringed by your derivative works or by
    other works in which the Apple Software may be incorporated.

    The Apple Software is provided by Apple on an "AS IS" basis.  APPLE
    MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION
    THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS
    FOR A PARTICULAR PURPOSE, REGARDING THE APPLE SOFTWARE OR ITS USE AND
    OPERATION ALONE OR IN COMBINATION WITH YOUR PRODUCTS.

    IN NO EVENT SHALL APPLE BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL
    OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
    SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
    INTERRUPTION) ARISING IN ANY WAY OUT OF THE USE, REPRODUCTION,
    MODIFICATION AND/OR DISTRIBUTION OF THE APPLE SOFTWARE, HOWEVER CAUSED
    AND WHETHER UNDER THEORY OF CONTRACT, TORT (INCLUDING NEGLIGENCE),
    STRICT LIABILITY OR OTHERWISE, EVEN IF APPLE HAS BEEN ADVISED OF THE
    POSSIBILITY OF SUCH DAMAGE.

    Copyright © 2003-2006 Apple Computer, Inc., All Rights Reserved


----------------------- Dependencies Grouped by License ------------
-------- Dependencies Summary
com.google.code.findbugs:jFormatString:2.0.1

-------- License used by Dependencies

    The GNU General Public License (GPL)

    Version 2, June 1991

    Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

    Everyone is permitted to copy and distribute verbatim copies of this
 license
    document, but changing it is not allowed.

    Preamble
```

```
   The licenses for most software are designed to take away your freedom to
share
   and change it.  By contrast, the GNU General Public License is intended
to
   guarantee your freedom to share and change free software--to make sure
the
   software is free for all its users.  This General Public License applies
to
   most of the Free Software Foundation's software and to any other program
whose
   authors commit to using it.  (Some other Free Software Foundation
software is
   covered by the GNU Library General Public License instead.) You can
apply it to
   your programs, too.

   When we speak of free software, we are referring to freedom, not price.
Our
   General Public Licenses are designed to make sure that you have the
freedom to
   distribute copies of free software (and charge for this service if you
wish),
   that you receive source code or can get it if you want it, that you can
change
   the software or use pieces of it in new free programs; and that you know
you
   can do these things.

   To protect your rights, we need to make restrictions that forbid anyone
to deny
   you these rights or to ask you to surrender the rights.  These
restrictions
   translate to certain responsibilities for you if you distribute copies
of the
   software, or if you modify it.

   For example, if you distribute copies of such a program, whether gratis
or for
   a fee, you must give the recipients all the rights that you have.  You
must
   make sure that they, too, receive or can get the source code.  And you
must
   show them these terms so they know their rights.

   We protect your rights with two steps: (1) copyright the software, and
(2)
   offer you this license which gives you legal permission to copy,
distribute
   and/or modify the software.

   Also, for each author's protection and ours, we want to make certain
that
   everyone understands that there is no warranty for this free software.
If the
   software is modified by someone else and passed on, we want its
recipients to
   know that what they have is not the original, so that any problems
introduced
   by others will not reflect on the original authors' reputations.

   Finally, any free program is threatened constantly by software patents.
We
   wish to avoid the danger that redistributors of a free program will
```

```
   individually obtain patent licenses, in effect making the program
proprietary.
   To prevent this, we have made it clear that any patent must be licensed
for
   everyone's free use or not licensed at all.

   The precise terms and conditions for copying, distribution and
modification
   follow.

   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

   0. This License applies to any program or other work which contains a
notice
   placed by the copyright holder saying it may be distributed under the
terms of
   this General Public License.  The "Program", below, refers to any such
program
   or work, and a "work based on the Program" means either the Program or
any
   derivative work under copyright law: that is to say, a work containing
the
   Program or a portion of it, either verbatim or with modifications and/or
   translated into another language.  (Hereinafter, translation is included
   without limitation in the term "modification".) Each licensee is
addressed as
   "you".

   Activities other than copying, distribution and modification are not
covered by
   this License; they are outside its scope.  The act of running the
Program is
   not restricted, and the output from the Program is covered only if its
contents
   constitute a work based on the Program (independent of having been made
by
   running the Program).  Whether that is true depends on what the Program
does.

   1. You may copy and distribute verbatim copies of the Program's source
code as
   you receive it, in any medium, provided that you conspicuously and
   appropriately publish on each copy an appropriate copyright notice and
   disclaimer of warranty; keep intact all the notices that refer to this
License
   and to the absence of any warranty; and give any other recipients of the
   Program a copy of this License along with the Program.

   You may charge a fee for the physical act of transferring a copy, and
you may
   at your option offer warranty protection in exchange for a fee.

   2. You may modify your copy or copies of the Program or any portion of
it, thus
   forming a work based on the Program, and copy and distribute such
modifications
   or work under the terms of Section 1 above, provided that you also meet
all of
   these conditions:

       a) You must cause the modified files to carry prominent notices
stating
       that you changed the files and the date of any change.
```

```
       b) You must cause any work that you distribute or publish, that in
whole or
       in part contains or is derived from the Program or any part thereof,
to be
       licensed as a whole at no charge to all third parties under the
terms of
       this License.

       c) If the modified program normally reads commands interactively
when run,
       you must cause it, when started running for such interactive use in
the
       most ordinary way, to print or display an announcement including an
       appropriate copyright notice and a notice that there is no warranty
(or
       else, saying that you provide a warranty) and that users may
redistribute
       the program under these conditions, and telling the user how to view
a copy
       of this License.  (Exception: if the Program itself is interactive
but does
       not normally print such an announcement, your work based on the
Program is
       not required to print an announcement.)

   These requirements apply to the modified work as a whole.  If
identifiable
   sections of that work are not derived from the Program, and can be
reasonably
   considered independent and separate works in themselves, then this
License, and
   its terms, do not apply to those sections when you distribute them as
separate
   works.  But when you distribute the same sections as part of a whole
which is a
   work based on the Program, the distribution of the whole must be on the
terms
   of this License, whose permissions for other licensees extend to the
entire
   whole, and thus to each and every part regardless of who wrote it.

   Thus, it is not the intent of this section to claim rights or contest
your
   rights to work written entirely by you; rather, the intent is to
exercise the
   right to control the distribution of derivative or collective works
based on
   the Program.

   In addition, mere aggregation of another work not based on the Program
with the
   Program (or with a work based on the Program) on a volume of a storage
or
   distribution medium does not bring the other work under the scope of
this
   License.

   3. You may copy and distribute the Program (or a work based on it, under
   Section 2) in object code or executable form under the terms of Sections
1 and
   2 above provided that you also do one of the following:

       a) Accompany it with the complete corresponding machine-readable
source
```

```
       code, which must be distributed under the terms of Sections 1 and 2
above
       on a medium customarily used for software interchange; or,

       b) Accompany it with a written offer, valid for at least three
years, to
       give any third party, for a charge no more than your cost of
physically
       performing source distribution, a complete machine-readable copy of
the
       corresponding source code, to be distributed under the terms of
Sections 1
       and 2 above on a medium customarily used for software interchange;
or,

       c) Accompany it with the information you received as to the offer to
       distribute corresponding source code.  (This alternative is allowed
only
       for noncommercial distribution and only if you received the program
in
       object code or executable form with such an offer, in accord with
       Subsection b above.)

   The source code for a work means the preferred form of the work for
making
   modifications to it.  For an executable work, complete source code means
all
   the source code for all modules it contains, plus any associated
interface
   definition files, plus the scripts used to control compilation and
installation
   of the executable.  However, as a special exception, the source code
   distributed need not include anything that is normally distributed (in
either
   source or binary form) with the major components (compiler, kernel, and
so on)
   of the operating system on which the executable runs, unless that
component
   itself accompanies the executable.

   If distribution of executable or object code is made by offering access
to copy
   from a designated place, then offering equivalent access to copy the
source
   code from the same place counts as distribution of the source code, even
though
   third parties are not compelled to copy the source along with the object
code.

   4. You may not copy, modify, sublicense, or distribute the Program
except as
   expressly provided under this License.  Any attempt otherwise to copy,
modify,
   sublicense or distribute the Program is void, and will automatically
terminate
   your rights under this License.  However, parties who have received
copies, or
   rights, from you under this License will not have their licenses
terminated so
   long as such parties remain in full compliance.

   5. You are not required to accept this License, since you have not
signed it.
```

```
   However, nothing else grants you permission to modify or distribute the
Program
   or its derivative works.  These actions are prohibited by law if you do
not
   accept this License.  Therefore, by modifying or distributing the
Program (or
   any work based on the Program), you indicate your acceptance of this
License to
   do so, and all its terms and conditions for copying, distributing or
modifying
   the Program or works based on it.

   6. Each time you redistribute the Program (or any work based on the
Program),
   the recipient automatically receives a license from the original
licensor to
   copy, distribute or modify the Program subject to these terms and
conditions.
   You may not impose any further restrictions on the recipients' exercise
of the
   rights granted herein.  You are not responsible for enforcing compliance
by
   third parties to this License.

   7. If, as a consequence of a court judgment or allegation of patent
   infringement or for any other reason (not limited to patent issues),
conditions
   are imposed on you (whether by court order, agreement or otherwise) that
   contradict the conditions of this License, they do not excuse you from
the
   conditions of this License.  If you cannot distribute so as to satisfy
   simultaneously your obligations under this License and any other
pertinent
   obligations, then as a consequence you may not distribute the Program at
all.
   For example, if a patent license would not permit royalty-free
redistribution
   of the Program by all those who receive copies directly or indirectly
through
   you, then the only way you could satisfy both it and this License would
be to
   refrain entirely from distribution of the Program.

   If any portion of this section is held invalid or unenforceable under
any
   particular circumstance, the balance of the section is intended to apply
and
   the section as a whole is intended to apply in other circumstances.

   It is not the purpose of this section to induce you to infringe any
patents or
   other property right claims or to contest validity of any such claims;
this
   section has the sole purpose of protecting the integrity of the free
software
   distribution system, which is implemented by public license practices.
Many
   people have made generous contributions to the wide range of software
   distributed through that system in reliance on consistent application of
that
   system; it is up to the author/donor to decide if he or she is willing
to
   distribute software through any other system and a licensee cannot
impose that
```

```
   choice.

   This section is intended to make thoroughly clear what is believed to be
a
   consequence of the rest of this License.

   8. If the distribution and/or use of the Program is restricted in
certain
   countries either by patents or by copyrighted interfaces, the original
   copyright holder who places the Program under this License may add an
explicit
   geographical distribution limitation excluding those countries, so that
   distribution is permitted only in or among countries not thus excluded.
In
   such case, this License incorporates the limitation as if written in the
body
   of this License.

   9. The Free Software Foundation may publish revised and/or new versions
of the
   General Public License from time to time.  Such new versions will be
similar in
   spirit to the present version, but may differ in detail to address new
problems
   or concerns.

   Each version is given a distinguishing version number.  If the Program
   specifies a version number of this License which applies to it and "any
later
   version", you have the option of following the terms and conditions
either of
   that version or of any later version published by the Free Software
Foundation.
   If the Program does not specify a version number of this License, you
may
   choose any version ever published by the Free Software Foundation.

   10. If you wish to incorporate parts of the Program into other free
programs
   whose distribution conditions are different, write to the author to ask
for
   permission.  For software which is copyrighted by the Free Software
Foundation,
   write to the Free Software Foundation; we sometimes make exceptions for
this.
   Our decision will be guided by the two goals of preserving the free
status of
   all derivatives of our free software and of promoting the sharing and
reuse of
   software generally.

   NO WARRANTY

   11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR
   THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE
   STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
   PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR
IMPLIED,
   INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND
   FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND
```

```
   PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE PROGRAM PROVE
DEFECTIVE,
   YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

   12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL
   ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE
   PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
   GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR
   INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA
OR DATA
   BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR
A
   FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH
HOLDER
   OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

   If you develop a new program, and you want it to be of the greatest
possible
   use to the public, the best way to achieve this is to make it free
software
   which everyone can redistribute and change under these terms.

   To do so, attach the following notices to the program.  It is safest to
attach
   them to the start of each source file to most effectively convey the
exclusion
   of warranty; and each file should have at least the "copyright" line and
a
   pointer to where the full notice is found.

       One line to give the program's name and a brief idea of what it
does.

       Copyright (C) <year> <name of author>

       This program is free software; you can redistribute it and/or modify
it
       under the terms of the GNU General Public License as published by
the Free
       Software Foundation; either version 2 of the License, or (at your
option)
       any later version.

       This program is distributed in the hope that it will be useful, but
WITHOUT
       ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
or
       FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public
License for
       more details.

       You should have received a copy of the GNU General Public License
along
       with this program; if not, write to the Free Software Foundation,
Inc., 59
       Temple Place, Suite 330, Boston, MA 02111-1307 USA
```

```
   Also add information on how to contact you by electronic and paper mail.

   If the program is interactive, make it output a short notice like this
when it
   starts in an interactive mode:

       Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes
       with ABSOLUTELY NO WARRANTY; for details type 'show w'.  This is
free
       software, and you are welcome to redistribute it under certain
conditions;
       type 'show c' for details.

   The hypothetical commands 'show w' and 'show c' should show the
appropriate
   parts of the General Public License.  Of course, the commands you use
may be
   called something other than 'show w' and 'show c'; they could even be
   mouse-clicks or menu items--whatever suits your program.

   You should also get your employer (if you work as a programmer) or your
school,
   if any, to sign a "copyright disclaimer" for the program, if necessary.
Here
   is a sample; alter the names:

       Yoyodyne, Inc., hereby disclaims all copyright interest in the
program
       'Gnomovision' (which makes passes at compilers) written by James
Hacker.

       signature of Ty Coon, 1 April 1989

       Ty Coon, President of Vice

   This General Public License does not permit incorporating your program
into
   proprietary programs.  If your program is a subroutine library, you may
   consider it more useful to permit linking proprietary applications with
the
   library.  If this is what you want to do, use the GNU Library General
Public
   License instead of this License.


   "CLASSPATH" EXCEPTION TO THE GPL

   Certain source files distributed by Sun Microsystems, Inc.  are subject
to
   the following clarification and special exception to the GPL, but only
where
   Sun has expressly included in the particular source file's header the
words
   "Sun designates this particular file as subject to the "Classpath"
exception
   as provided by Sun in the LICENSE file that accompanied this code."

       Linking this library statically or dynamically with other modules is
making
       a combined work based on this library.  Thus, the terms and
conditions of
       the GNU General Public License cover the whole combination.
```

```
        As a special exception, the copyright holders of this library give
 you
        permission to link this library with independent modules to produce
 an
        executable, regardless of the license terms of these independent
 modules,
        and to copy and distribute the resulting executable under terms of
 your
        choice, provided that you also meet, for each linked independent
 module,
        the terms and conditions of the license of that module.  An
 independent
        module is a module which is not derived from or based on this
 library.  If
        you modify this library, you may extend this exception to your
 version of
        the library, but you are not obligated to do so.  If you do not wish
 to do
        so, delete this exception statement from your version.


----------------------- Dependencies Grouped by License ------------
-------- Dependencies Summary
com.google.code.findbugs:jsr305:2.0.1

-------- License used by Dependencies
SPDX:BSD-2-Clause

    The JSR-305 reference implementation (lib/jsr305.jar) is
    distributed under the terms of the New BSD license:

    http://www.opensource.org/licenses/bsd-license.php

    See the JSR-305 home page for more information:

    http://code.google.com/p/jsr-305/

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
 met:

    1. Redistributions of source code must retain the above copyright
 notice, this
    list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
 notice,
    this list of conditions and the following disclaimer in the
 documentation
    and/or other materials provided with the distribution

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE
    DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
 LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR
```

```
    SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
    OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependencies Summary
dom4j:dom4j:1.6.1

-------- License used by Dependencies

    BSD style license

    Redistribution and use of this software and associated documentation
    ("Software"), with or without modification, are permitted provided that
    the following conditions are met:

        1. Redistributions of source code must retain copyright statements
        and notices. Redistributions must also contain a copy of this
        document.

        2. Redistributions in binary form must reproduce the above
        copyright notice, this list of conditions and the following
        disclaimer in the documentation and/or other materials provided
        with the distribution.

        3. The name "DOM4J" must not be used to endorse or promote
        products derived from this Software without prior written
        permission of MetaStuff, Ltd. For written permission, please
        contact dom4j-info@metastuff.com.

        4. Products derived from this Software may not be called "DOM4J"
        nor may "DOM4J" appear in their names without prior written
        permission of MetaStuff, Ltd. DOM4J is a registered trademark of
        MetaStuff, Ltd.

        5. Due credit should be given to the DOM4J Project
        (http://dom4j.org/).

    THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS ``AS IS''
    AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
    THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
    PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL METASTUFF, LTD. OR ITS
    CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

    Copyright 2001 (C) MetaStuff, Ltd. All Rights Reserved.


----------------------- Dependencies Grouped by License ------------
-------- Dependencies Summary
jaxen:jaxen:1.1.6

-------- License used by Dependencies
```

```
    /*
    $Id: LICENSE-jaxen.txt,v 1.1 2008/06/18 18:54:23 wpugh Exp $

    Copyright 2003-2006 The Werken Company. All Rights Reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are
    met:

    * Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in the
        documentation and/or other materials provided with the distribution.

    * Neither the name of the Jaxen Project nor the names of its
        contributors may be used to endorse or promote products derived
        from this software without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
    IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
    TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
    PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
    OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

    */

----------------------- Dependencies Grouped by License ------------
-------- Dependencies Summary
net.jcip:jcip-annotations:1.0

-------- License used by Dependencies

    The Java code in the package net.jcip.annotations
    is copyright (c) 2005 Brian Goetz
    and is released under the Creative Commons Attribution License
    (http://creativecommons.org/licenses/by/2.5)
    Official home: http://www.jcip.net

    Creative Commons Attribution 2.5

    CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
 LEGAL
    SERVICES. DISTRIBUTION OF THIS LICENSE DOES NOT CREATE AN ATTORNEY-
CLIENT
    RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS"
 BASIS.
    CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE INFORMATION PROVIDED,
 AND
    DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM ITS USE.

    License

    THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE
    COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY
    COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS
    AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.
```

```
   BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE
TO BE
   BOUND BY THE TERMS OF THIS LICENSE. THE LICENSOR GRANTS YOU THE RIGHTS
   CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND
   CONDITIONS.

   1. Definitions

   a. "Collective Work" means a work, such as a periodical issue, anthology
or
   encyclopedia, in which the Work in its entirety in unmodified form,
along with
   a number of other contributions, constituting separate and independent
works
   in themselves, are assembled into a collective whole. A work that
constitutes
   a Collective Work will not be considered a Derivative Work (as defined
below)
   for the purposes of this License.

   b. "Derivative Work" means a work based upon the Work or upon the Work
and
   other pre-existing works, such as a translation, musical arrangement,
   dramatization, fictionalization, motion picture version, sound
recording, art
   reproduction, abridgment, condensation, or any other form in which the
Work
   may be recast, transformed, or adapted, except that a work that
constitutes a
   Collective Work will not be considered a Derivative Work for the purpose
of
   this License. For the avoidance of doubt, where the Work is a musical
   composition or sound recording, the synchronization of the Work in
timed-
   relation with a moving image ("synching") will be considered a
Derivative Work
   for the purpose of this License.

   c. "Licensor" means the individual or entity that offers the Work under
the
   terms of this License.

   d. "Original Author" means the individual or entity who created the
Work.

   e. "Work" means the copyrightable work of authorship offered under the
terms
   of this License.

   f. "You" means an individual or entity exercising rights under this
License
   who has not previously violated the terms of this License with respect
to the
   Work, or who has received express permission from the Licensor to
exercise
   rights under this License despite a previous violation.

   2. Fair Use Rights. Nothing in this license is intended to reduce,
limit, or restrict any rights arising from fair use, first sale or other
limitations on the exclusive rights of the copyright owner under copyright
law or other applicable laws.
```

```
   3. License Grant. Subject to the terms and conditions of this License,
Licensor hereby grants You a worldwide, royalty-free, non-exclusive,
perpetual (for the duration of the applicable copyright) license to
exercise the rights in the Work as stated below:

   a. to reproduce the Work, to incorporate the Work into one or more
Collective
   Works, and to reproduce the Work as incorporated in the Collective
Works;

   b. to create and reproduce Derivative Works;

   c. to distribute copies or phonorecords of, display publicly, perform
   publicly, and perform publicly by means of a digital audio transmission
the
   Work including as incorporated in Collective Works;

   d. to distribute copies or phonorecords of, display publicly, perform
   publicly, and perform publicly by means of a digital audio transmission
   Derivative Works.

   e. For the avoidance of doubt, where the work is a musical composition:

   i. Performance Royalties Under Blanket Licenses. Licensor waives the
exclusive
   right to collect, whether individually or via a performance rights
society
   (e.g. ASCAP, BMI, SESAC), royalties for the public performance or public
   digital performance (e.g. webcast) of the Work.

   ii. Mechanical Rights and Statutory Royalties. Licensor waives the
exclusive
   right to collect, whether individually or via a music rights agency or
   designated agent (e.g. Harry Fox Agency), royalties for any phonorecord
You
   create from the Work ("cover version") and distribute, subject to the
   compulsory license created by 17 USC Section 115 of the US Copyright Act
(or
   the equivalent in other jurisdictions).

   f. Webcasting Rights and Statutory Royalties. For the avoidance of
doubt,
   where the Work is a sound recording, Licensor waives the exclusive right
to
   collect, whether individually or via a performance-rights society (e.g.
   SoundExchange), royalties for the public digital performance (e.g.
webcast) of
   the Work, subject to the compulsory license created by 17 USC Section
114 of
   the US Copyright Act (or the equivalent in other jurisdictions).

   The above rights may be exercised in all media and formats whether now
known
   or hereafter devised. The above rights include the right to make such
   modifications as are technically necessary to exercise the rights in
other
   media and formats. All rights not expressly granted by Licensor are
hereby
   reserved.

   4. Restrictions. The license granted in Section 3 above is expressly
made subject to and limited by the following restrictions:

   a. You may distribute, publicly display, publicly perform, or publicly
```

```
   digitally perform the Work only under the terms of this License, and You
must
   include a copy of, or the Uniform Resource Identifier for, this License
with
   every copy or phonorecord of the Work You distribute, publicly display,
   publicly perform, or publicly digitally perform. You may not offer or
impose
   any terms on the Work that alter or restrict the terms of this License
or the
   recipients&apos; exercise of the rights granted hereunder. You may not
   sublicense the Work. You must keep intact all notices that refer to this
   License and to the disclaimer of warranties. You may not distribute,
publicly
   display, publicly perform, or publicly digitally perform the Work with
any
   technological measures that control access or use of the Work in a
manner
   inconsistent with the terms of this License Agreement. The above applies
to
   the Work as incorporated in a Collective Work, but this does not require
the
   Collective Work apart from the Work itself to be made subject to the
terms of
   this License. If You create a Collective Work, upon notice from any
Licensor
   You must, to the extent practicable, remove from the Collective Work any
   credit as required by clause 4(b), as requested. If You create a
Derivative
   Work, upon notice from any Licensor You must, to the extent practicable,
   remove from the Derivative Work any credit as required by clause 4(b),
as
   requested.

   b. If you distribute, publicly display, publicly perform, or publicly
   digitally perform the Work or any Derivative Works or Collective Works,
You
   must keep intact all copyright notices for the Work and provide,
reasonable to
   the medium or means You are utilizing: (i) the name of the Original
Author (or
   pseudonym, if applicable) if supplied, and/or (ii) if the Original
Author
   and/or Licensor designate another party or parties (e.g. a sponsor
institute,
   publishing entity, journal) for attribution in Licensor&apos;s copyright
   notice, terms of service or by other reasonable means, the name of such
party
   or parties; the title of the Work if supplied; to the extent reasonably
   practicable, the Uniform Resource Identifier, if any, that Licensor
specifies
   to be associated with the Work, unless such URI does not refer to the
   copyright notice or licensing information for the Work; and in the case
of a
   Derivative Work, a credit identifying the use of the Work in the
Derivative
   Work (e.g., "French translation of the Work by Original Author," or
   "Screenplay based on original Work by Original Author"). Such credit may
be
   implemented in any reasonable manner; provided, however, that in the
case of a
   Derivative Work or Collective Work, at a minimum such credit will appear
where
   any other comparable authorship credit appears and in a manner at least
as
```

```
   prominent as such other comparable authorship credit.

   5. Representations, Warranties and Disclaimer

   UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR
OFFERS
   THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND
   CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE,
INCLUDING,
   WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTIBILITY, FITNESS FOR A
   PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER
   DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT
   DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED
   WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

   6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE
LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY
SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING
OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN
ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

   7. Termination

   a. This License and the rights granted hereunder will terminate
automatically
   upon any breach by You of the terms of this License. Individuals or
entities
   who have received Derivative Works or Collective Works from You under
this
   License, however, will not have their licenses terminated provided such
   individuals or entities remain in full compliance with those licenses.
   Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this
License.

   b. Subject to the above terms and conditions, the license granted here
is
   perpetual (for the duration of the applicable copyright in the Work).
   Notwithstanding the above, Licensor reserves the right to release the
Work
   under different license terms or to stop distributing the Work at any
time;
   provided, however that any such election will not serve to withdraw this
   License (or any other license that has been, or is required to be,
granted
   under the terms of this License), and this License will continue in full
force
   and effect unless terminated as stated above.

   8. Miscellaneous

   a. Each time You distribute or publicly digitally perform the Work or a
   Collective Work, the Licensor offers to the recipient a license to the
Work on
   the same terms and conditions as the license granted to You under this
   License.

   b. Each time You distribute or publicly digitally perform a Derivative
Work,
   Licensor offers to the recipient a license to the original Work on the
same
   terms and conditions as the license granted to You under this License.

   c. If any provision of this License is invalid or unenforceable under
```

```
   applicable law, it shall not affect the validity or enforceability of
the
   remainder of the terms of this License, and without further action by
the
   parties to this agreement, such provision shall be reformed to the
minimum
   extent necessary to make such provision valid and enforceable.

   d. No term or provision of this License shall be deemed waived and no
breach
   consented to unless such waiver or consent shall be in writing and
signed by
   the party to be charged with such waiver or consent.

   e. This License constitutes the entire agreement between the parties
with
   respect to the Work licensed here. There are no understandings,
agreements or
   representations with respect to the Work not specified here. Licensor
shall
   not be bound by any additional provisions that may appear in any
communication
   from You. This License may not be modified without the mutual written
   agreement of the Licensor and You.

   Creative Commons is not a party to this License, and makes no warranty
   whatsoever in connection with the Work. Creative Commons will not be
liable to
   You or any party on any legal theory for any damages whatsoever,
including
   without limitation any general, special, incidental or consequential
damages
   arising in connection to this license. Notwithstanding the foregoing two
(2)
   sentences, if Creative Commons has expressly identified itself as the
Licensor
   hereunder, it shall have all rights and obligations of Licensor.

   Except for the limited purpose of indicating to the public that the Work
is
   licensed under the CCPL, neither party will use the trademark "Creative
   Commons" or any related trademark or logo of Creative Commons without
the
   prior written consent of Creative Commons. Any permitted use will be in
   compliance with Creative Commons&apos; then-current trademark usage
   guidelines, as may be published on its website or otherwise made
available
   upon request from time to time.

   Creative Commons may be contacted at http://creativecommons.org/.
```

Provider: The University of Maryland / Component(s): spotbugs-annotations 4.8.1

```
GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
```

```
 of this license document, but changing it is not allowed.

(This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.)

                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
```

```
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)
```

```
  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
```

```
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
```

```
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
```

```
  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.
```

```
It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
```

```
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                     END OF TERMS AND CONDITIONS

/*
 * Bytecode Analysis Framework
 * Copyright (C) 2005 University of Maryland
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Lesser General Public
 * License as published by the Free Software Foundation; either
 * version 2.1 of the License, or (at your option) any later version.
 *
 * This library is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
 * Lesser General Public License for more details.
 *
 * You should have received a copy of the GNU Lesser General Public
 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
 */

========================================
jsr305

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

Provider: The University of Maryland / Component(s): spotbugs-annotations 4.8.3

```
GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

(This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.)

                             Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
```

```
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
```

```
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
```

```
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
```

```
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
```

```
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
```

```
  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
```

```
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                     END OF TERMS AND CONDITIONS

/*
 * Bytecode Analysis Framework
 * Copyright (C) 2005 University of Maryland
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Lesser General Public
 * License as published by the Free Software Foundation; either
 * version 2.1 of the License, or (at your option) any later version.
 *
 * This library is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
 * Lesser General Public License for more details.
 *
 * You should have received a copy of the GNU Lesser General Public
 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
 */

========================================
jsr305

Copyright (c) 2007-2009, JSR305 expert group
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright
 notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the JSR305 expert group nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Other copyright notices in this distribution:

Copyright (c) 2005, Brian Goetz and Tim Peierls

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

Provider: The Velero Contributors / Component(s): velero 1.0.0

```
Copyright 2019 the Velero contributors.
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
```

```
You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
```

```
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
```

```
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
```

```
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
```

Provider: The Werken Company / Component(s): Jaxen 1.2.0

```
 $Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $

 Copyright 2003-2006 The Werken Company. All Rights Reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are
 met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  * Neither the name of the Jaxen Project nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 */
```

Provider: Thomas Kemmer / Component(s): cachetools 5.3.2

```
The MIT License (MIT)

Copyright (c) 2014-2022 Thomas Kemmer
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Thomas Orozco / Component(s): Tini 0.19.0-1

```
The MIT License (MIT)

Copyright (c) 2015 Thomas Orozco <thomas@orozco.fr>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: three.js authors / Component(s): three.js 0.126.0

```
The MIT License

Copyright © 2010-2018 three.js authors

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Tigera, Inc. / Component(s): Calico 3.21.6

```
------------------------------ Top-Level License
 -------------------------------
SPDX:Apache-2.0

---------------------------------- Copyright
 -----------------------------------
Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
Copyright (C) 1991, 1999 Free Software Foundation, Inc.
Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Copyright (C) <year>  <name of author>
Copyright (C) year name of author
Copyright (c) %s Tigera, Inc. All rights reserved.
Copyright (c) 2013 Kelsey Hightower
Copyright (c) 2015-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2015-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016 Tigera, Inc. All rights reserved.
Copyright (c) 2016, 2019 Tigera, Inc. All rights reserved.
Copyright (c) 2016,2018 Tigera, Inc. All rights reserved.
Copyright (c) 2016,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2016,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017, 2020 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017,2019 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017,2019-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017,2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2018 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2018,2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2019 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2019,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017 Tigera, Inc. All rights reserved.
Copyright (c) 2017, 2019 Tigera, Inc. All rights reserved.
Copyright (c) 2017, 2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017, 2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017, 2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2019 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2019,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2019-2021 Tigera, Inc. All rights reserved.
```

```
Copyright (c) 2017,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2018 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2018, 2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2018,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2018,2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2018,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2019 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2019,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2019,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2020 Tigera, Ic. All rights reserved.
Copyright (c) 2017-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018 Tigera, Inc. All rights reserved.
Copyright (c) 2018, 2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018, 2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2018,2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018-2019 Tigera, Inc. All rights reserved.
Copyright (c) 2018-2019,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2018-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2019 Tigera, Inc. All rights reserved.
Copyright (c) 2019,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2019-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2019-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2020  All rights reserved.
Copyright (c) 2020 Nordix Foundation
Copyright (c) 2020 Tigera, Inc. All rights reserved.
Copyright (c) 2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2020-2022 Tigera, Inc. All rights reserved.
Copyright (c) 2021  All rights reserved.
Copyright (c) 2021 Tigera, Inc. All rights reserved.
Copyright (c) 2022 Tigera, Inc. All rights reserved.
Copyright (c) <year> <owner> . All rights reserved.
Copyright (c) YEAR Tigera, Inc. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The etcd Authors
Copyright 2016 The Kubernetes Authors
Copyright 2016 The Kubernetes Authors.
Copyright 2016 The etcd Authors
Copyright 2017 The Kubernetes Authors.
Copyright 2018 Tigera Inc
Copyright 2019 The Kubernetes Authors.
Copyright 2020 Cisco Systems Inc

-------------------------- Fourth Party Dependencies
 ---------------------------

------------------------------------ Licenses
 ------------------------------------
-  Apache-2.0
-  BSD-2-Clause
-  BSD-3-Clause
-  BSD-3-Clause--modified-by-Google
-  ISC
-  MIT
-  MPL-2.0
-  Unknown License

---------------------------------- (separator)
 ----------------------------------
```

```
== Dependency
cloud.google.com/go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 1996-1998 John D. Polstra.  All rights reserved.
Copyright (c) 2001 David E. O'Brien
Copyright 2014 Google LLC
Copyright 2016 Google LLC
Copyright 2017 Google LLC
Copyright 2017, Google LLC
Copyright 2018 Google Inc. All Rights Reserved.
Copyright 2018 Google LLC
Copyright 2018 Google LLC.
Copyright 2019 Google LLC
Copyright 2020 Google LLC
Copyright 2020, Google LLC

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Azure/go-autorest/autorest

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Azure/go-autorest/autorest/adal

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Azure/go-autorest/autorest/date

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 -----------------------------------

== Dependency
```

```
github.com/Azure/go-autorest/logger

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Azure/go-autorest/tracing

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 Microsoft Corporation
Copyright 2017 Microsoft Corporation
Copyright 2018 Microsoft Corporation

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/BurntSushi/toml

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 TOML authors
Copyright 2010 The Go Authors.  All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/NYTimes/gziphandler

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016-2017 The New York Times Company

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/PuerkitoBio/purell

== License Type
Copyright (c) 2012, Martin Angers
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
```

```
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the author nor the names of its contributors may be
 used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012, Martin Angers

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/PuerkitoBio/urlesc

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/Workiva/go-datastructures

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2016, Theodore Butler
Copyright 2014 Workiva, LLC
Copyright 2015 Workiva, LLC
Copyright 2016 Sokolov Yura aka funny_falcon
Copyright 2016 Workiva, LLC
Copyright 2017 Julian Griggs

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/alecthomas/template

== License Type
SPDX:BSD-3-Clause--modified-by-Google
```

```
== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/alecthomas/units

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2014 Alec Thomas

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/alexflint/go-filemutex

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2010-2017 Alex Flint.
Copyright 2013 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/armon/go-radix

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Armon Dadgar

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/aws/aws-sdk-go-v2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014-2015 Stripe, Inc.
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.

== Notices
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/aws/aws-sdk-go-v2/config

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/aws/aws-sdk-go-v2/credentials

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/aws/aws-sdk-go-v2/feature/ec2/imds

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/aws/aws-sdk-go-v2/internal/configsources

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/aws/aws-sdk-go-v2/internal/endpoints/v2

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
```

```
github.com/aws/aws-sdk-go-v2/internal/ini

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/aws/aws-sdk-go-v2/service/ec2

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/aws/aws-sdk-go-v2/service/internal/presigned-url

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/aws/aws-sdk-go-v2/service/sso

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/aws/aws-sdk-go-v2/service/sts

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/aws/smithy-go

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.
Copyright 2016 The Go Authors. All rights reserved.

== Notices
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/beorn7/perks

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2013 Blake Mizerany

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/blang/semver

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Benedikt Lang <github at benediktlang.de>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/cespare/xxhash/v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Caleb Spare

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/cncf/udpa/go

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/containernetworking/cni
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014-2016 CNI authors
Copyright 2015 CNI authors
Copyright 2016 CNI authors
Copyright 2017 CNI authors
Copyright 2018 CNI authors
Copyright 2019 CNI authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/containernetworking/plugins

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 CNI authors
Copyright 2015 CNI authors
Copyright 2015-2017 CNI authors
Copyright 2015-2018 CNI authors
Copyright 2016 CNI authors
Copyright 2016-2018 CNI authors
Copyright 2017 CNI authors
Copyright 2017-2018 CNI authors
Copyright 2017-2020 CNI authors
Copyright 2018 CNI authors
Copyright 2019 CNI authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/coreos/go-iptables

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 CoreOS, Inc.
Copyright 2018 CoreOS, Inc

== Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/coreos/go-semver

== License Type
SPDX:Apache-2.0

== Copyright
```

```
Copyright 2013-2015 CoreOS, Inc.
Copyright 2018 CoreOS, Inc

== Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/coreos/go-systemd

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Docker, Inc.
Copyright 2015 CoreOS Inc.
Copyright 2015 CoreOS, Inc.
Copyright 2015 RedHat, Inc.
Copyright 2015, 2018 CoreOS, Inc.
Copyright 2015-2018 CoreOS, Inc.
Copyright 2016 CoreOS, Inc.
Copyright 2018 CoreOS, Inc
Copyright 2018 CoreOS, Inc.
Copyright 2019 CoreOS, Inc.

== Notices
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/coreos/pkg

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 CoreOS, Inc
Copyright 2015 CoreOS, Inc.
Copyright 2016 CoreOS Inc
Copyright 2016 CoreOS, Inc.

== Notices
CoreOS Project
Copyright 2014 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/davecgh/go-spew

== License Type
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.



== Copyright
Copyright (c) 2012-2016 Dave Collins <dave@davec.name>
Copyright (c) 2013 Dave Collins <dave@davec.name>
Copyright (c) 2013-2016 Dave Collins <dave@davec.name>
Copyright (c) 2015-2016 Dave Collins <dave@davec.name>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/dgryski/go-farm

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014-2017 Damian Gryski
Copyright (c) 2016-2017 Nicola Asuni - Tecnick.com

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/distribution/distribution

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2013 Damien Le Berrigaud and Nick Wade

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/docker/distribution

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright (c) 2013 Damien Le Berrigaud and Nick Wade

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/docopt/docopt-go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Keith Batten
Copyright (c) 2013 Keith Batten, kbatten@gmail.com
Copyright (c) 2016 David Irvine

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/eapache/channels

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Evan Huus

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/eapache/queue

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Evan Huus

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/emicklei/go-restful

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012,2013 Ernest Micklei
Copyright 2013 Ernest Micklei. All rights reserved.
Copyright 2014 Ernest Micklei. All rights reserved.
Copyright 2015 Ernest Micklei. All rights reserved.
Copyright 2018 Ernest Micklei. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/envoyproxy/go-control-plane
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 Envoyproxy Authors
Copyright 2019 Envoyproxy Authors
Copyright 2020 Envoyproxy Authors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/envoyproxy/protoc-gen-validate

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 Envoy Project Authors

== Notices
protoc-gen-validate
Copyright 2019 Envoy Project Authors

Licensed under Apache License 2.0. See LICENSE for terms.


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/evanphx/json-patch

== License Type
Copyright (c) 2014, Evan Phoenix
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the Evan Phoenix nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
== Copyright
Copyright (c) 2014, Evan Phoenix

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/form3tech-oss/jwt-go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012 Dave Grijalva

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/fsnotify/fsnotify

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/ghodss/yaml

== License Type
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2014 Sam Ghods
Copyright 2013 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-ini/ini

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Unknwon
Copyright 2015 Unknwon
Copyright 2016 Unknwon
Copyright 2017 Unknwon
Copyright 2019 Unknwon

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/go-logr/logr
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 The logr Authors.
Copyright 2020 The logr Authors.
Copyright 2021 The logr Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/go-openapi/jsonpointer

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 sigu-399 ( https://github.com/sigu-399 )

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/go-openapi/jsonreference

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 sigu-399 ( https://github.com/sigu-399 )

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/go-openapi/spec

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 go-swagger maintainers
Copyright 2017 go-swagger maintainers

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/go-openapi/swag

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 go-swagger maintainers

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/go-playground/locales

== License Type
```

```
SPDX:MIT

== Copyright
Copyright (c) 2016 Go Playground

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/go-playground/universal-translator

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Go Playground

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/gofrs/flock

== License Type
Copyright (c) 2015-2020, Tim Heckman
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of gofrs nor the names of its contributors may be used
  to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2015-2020, Tim Heckman
Copyright 2015 Tim Heckman. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The Gofrs. All rights reserved.
Copyright 2019 Tim Heckman. All rights reserved. Use of this source code is
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/gogo/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2013, The GoGo Authors. All rights reserved.
Copyright (c) 2015, The GoGo Authors.  rights reserved.
Copyright (c) 2015, The GoGo Authors. All rights reserved.
Copyright (c) 2016, The GoGo Authors. All rights reserved.
Copyright (c) 2017, The GoGo Authors. All rights reserved.
Copyright (c) 2018, The GoGo Authors. All rights reserved.
Copyright (c) 2019, The GoGo Authors. All rights reserved.
Copyright 2010 The Go Authors.
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2011 The Go Authors.  All rights reserved.
Copyright 2012 The Go Authors.  All rights reserved.
Copyright 2013 The Go Authors.  All rights reserved.
Copyright 2014 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2016 The Go Authors.  All rights reserved.
Copyright 2017 The Go Authors.  All rights reserved.
Copyright 2018 The Go Authors.  All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang-collections/collections

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012 Caleb Doxsey

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang/groupcache

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012 Google Inc.
Copyright 2013 Google Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/golang/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
```

```
Copyright 2010 The Go Authors.  All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors.  All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/go-cmp

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2017 The Go Authors. All rights reserved.
Copyright 2017, The Go Authors. All rights reserved.
Copyright 2018, The Go Authors. All rights reserved.
Copyright 2019, The Go Authors. All rights reserved.
Copyright 2020, The Go Authors. All rights reserved.
Copyright 2021, The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/gofuzz

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Google Inc. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/gopacket

== License Type
Copyright (c) 2012 Google, Inc. All rights reserved.
Copyright (c) 2009-2011 Andreas Krennmair. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Andreas Krennmair, Google, nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 1986-2010 by cisco Systems, Inc.\nCompiled Tue 26-Oct-10 10:35
 by nburra",
Copyright (c) 2009-2011 Andreas Krennmair. All rights reserved.
Copyright (c) 2012 Google, Inc. All rights reserved.
Copyright 2009-2011 Andreas Krennmair. All rights reserved.
Copyright 2012 Google, Inc. All rights reserved.
Copyright 2012, 2018 GoPacket Authors. All rights reserved.
Copyright 2012, Google, Inc. All rights reserved.
Copyright 2013 Google, Inc. All rights reserved.
Copyright 2014 Damjan Cvetko. All rights reserved.
Copyright 2014 Google, Inc. All rights reserved.
Copyright 2014, 2018 GoPacket Authors. All rights reserved.
Copyright 2014, Google, Inc. All rights reserved.
Copyright 2015 Google, Inc. All rights reserved.
Copyright 2016 Google, Inc. All rights reserved.
Copyright 2016, Google, Inc. All rights reserved.
Copyright 2017 Google, Inc. All rights reserved.
Copyright 2017, Google, Inc. All rights reserved.
Copyright 2018 GoPacket Authors. All rights reserved.
Copyright 2018 Google, Inc. All rights reserved.
Copyright 2018 The GoPacket Authors. All rights reserved.
Copyright 2018, Google, Inc. All rights reserved.
Copyright 2018, The GoPacket Authors, All rights reserved.
Copyright 2019 The GoPacket Authors. All rights reserved.
Copyright 2020 The GoPacket Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/google/uuid

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009,2014 Google Inc. All rights reserved.
Copyright 2016 Google Inc.  All rights reserved.
Copyright 2017 Google Inc.  All rights reserved.
Copyright 2018 Google Inc.  All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/googleapis/gnostic

== License Type
```

```
SPDX:Apache-2.0

== Copyright
Copyright 2017 Google Inc. All Rights Reserved.
Copyright 2017 Google Inc. All Rights Reserved.\n" +
Copyright 2017, Google Inc.
Copyright 2018 Google Inc. All Rights Reserved.
Copyright 2019 Google Inc. All Rights Reserved.
Copyright 2020 Google Inc. All Rights Reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/grpc-ecosystem/go-grpc-prometheus

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 Michal Witkowski. All Rights Reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/golang-lru

== License Type
SPDX:MPL-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/hashicorp/hcl

== License Type
SPDX:MPL-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/howeyc/fsnotify

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012 fsnotify Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/imdario/mergo

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2013 Dario CastaÃ±Ã©. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 Dario CastaÃ±Ã©. All rights reserved.
Copyright 2014 Dario CastaÃ±Ã©. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/influxdata/influxdb

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012 The gocql Authors. All rights reserved.
Copyright (c) 2013-2018 InfluxData Inc.
Copyright (c) 2014 Shawn Smith
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/ishidawataru/sctp

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2019 Wataru Ishida. All rights reserved.

== Notices
This source code includes following third party code

- ipsock_linux.go : licensed by the Go authors, see GO_LICENSE file for the
 license which applies to the code


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/jmespath/go-jmespath

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 James Saryerwinnie
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/joho/godotenv

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 John Barton

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/josharian/intern

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2019 Josh Bleecher Snyder

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/json-iterator/go

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 json-iterator

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/kardianos/osext

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/kelseyhightower/envconfig

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Kelsey Hightower
Copyright (c) 2013 Kelsey Hightower. All rights reserved.
Copyright (c) 2016 Kelsey Hightower and others. All rights reserved.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/kelseyhightower/memkv

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Kelsey Hightower
Copyright 2014 Kelsey Hightower. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/leodido/go-urn

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2018 Leonardo Di Donato

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/libp2p/go-reuseport

== License Type
Copyright (c) 2013 Conformal Systems LLC.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.


== Copyright
Copyright (c) 2013 Conformal Systems LLC.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/lithammer/dedent

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2018 Peter Lithammer

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/magiconair/properties

== License Type
goproperties - properties file decoder for Go

Copyright (c) 2013-2018 - Frank Schroeder

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2013-2018 - Frank Schroeder
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013-2014 Frank Schroeder. All rights reserved.
Copyright 2018 Frank Schroeder. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mailru/easyjson

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Mail.Ru Group

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/mattn/go-runewidth

== License Type
```

```
SPDX:MIT

== Copyright
Copyright (c) 2016 Yasuhiro Matsumoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/matttproud/golang_protobuf_extensions

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012 Matt T. Proud (matt.proud@gmail.com)
Copyright 2013 Matt T. Proud
Copyright 2016 Matt T. Proud

== Notices
Copyright 2012 Matt T. Proud (matt.proud@gmail.com)


---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mcuadros/go-version

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 MÃ¡ximo Cuadros

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mdlayher/genetlink

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2016-2017 Matt Layher

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mdlayher/netlink

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2016-2019 Matt Layher
Copyright 2009 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
```

```
github.com/mipearson/rfw

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Michael Pearson

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mitchellh/go-homedir

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Mitchell Hashimoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/mitchellh/mapstructure

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Mitchell Hashimoto

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/modern-go/concurrent

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/modern-go/reflect2

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/munnerz/goautoneg

== License Type
Copyright (c) 2011, Open Knowledge Foundation Ltd.
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

    Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

    Neither the name of the Open Knowledge Foundation Ltd. nor the
    names of its contributors may be used to endorse or promote
    products derived from this software without specific prior written
    permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2011, Open Knowledge Foundation Ltd.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/natefinch/atomic

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015 Nate Finch

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/nmrshll/go-cp

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 Nicolas Marshall

---------------------------------- (separator)
 -----------------------------------

== Dependency
```

```
github.com/nxadm/tail

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2013 99designs
Copyright (c) 2013 ActiveState Software Inc. All rights reserved.
Copyright (c) 2014 ActiveState
Copyright (c) 2015 HPE Software Inc. All rights reserved.
Copyright 2015 Hewlett Packard Enterprise Development LP

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/olekukonko/tablewriter

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2014 by Oleku Konko
Copyright 2014 Oleku Konko All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/onsi/ginkgo

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013-2014 Onsi Fakhouri
Copyright (c) 2016 Yasuhiro Matsumoto
Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/onsi/gomega

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013-2014 Onsi Fakhouri

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/opencontainers/go-digest

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 Docker, Inc.
Copyright 2017 Docker, Inc.
Copyright 2019, 2020 OCI Contributors
```

```
Copyright 2020, 2020 OCI Contributors
Copyright Â© 2016 Docker, Inc.
Copyright Â© 2019, 2020 OCI Contributors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/osrg/gobgp

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) 2014 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2014, 2015 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2014,2015 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2014-2016 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2014-2017 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2015 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2015,2016 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2015-2016 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2016 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2016-2017 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2017 Nippon Telegraph and Telephone Corporation.
Copyright (C) 2018 Nippon Telegraph and Telephone Corporation.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/patrickmn/go-cache

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012-2017 Patrick Mylund Nielsen and the go-cache contributors

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/pelletier/go-toml

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 - 2017 Thomas Pelletier, Eric Anderton
Copyright 2016 Google LLC

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/pkg/errors

== License Type
SPDX:BSD-2-Clause

== Copyright
Copyright (c) 2015, Dave Cheney <dave@cheney.net>
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/projectcalico/api

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
Copyright (C) 1991, 1999 Free Software Foundation, Inc.
Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Copyright (C) <year>  <name of author>
Copyright (C) year name of author
Copyright (c) %s Tigera, Inc. All rights reserved.
Copyright (c) 2013 Kelsey Hightower
Copyright (c) 2015-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2015-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016 Tigera, Inc. All rights reserved.
Copyright (c) 2016, 2019 Tigera, Inc. All rights reserved.
Copyright (c) 2016,2018 Tigera, Inc. All rights reserved.
Copyright (c) 2016,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2016,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017, 2020 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017,2019 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017,2019-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017,2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2017,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2018 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2018,2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2019 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2019,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2016-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017 Tigera, Inc. All rights reserved.
Copyright (c) 2017, 2019 Tigera, Inc. All rights reserved.
Copyright (c) 2017, 2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017, 2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017, 2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2019 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2019,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2019-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2018 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2018, 2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2018,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2018,2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2018,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2019 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2019,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2019,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2020 Tigera, Ic. All rights reserved.
Copyright (c) 2017-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2017-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018 Tigera, Inc. All rights reserved.
Copyright (c) 2018, 2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018, 2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018,2020 Tigera, Inc. All rights reserved.
Copyright (c) 2018,2020-2021 Tigera, Inc. All rights reserved.
```

```
Copyright (c) 2018,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018-2019 Tigera, Inc. All rights reserved.
Copyright (c) 2018-2019,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2018-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2018-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2019 Tigera, Inc. All rights reserved.
Copyright (c) 2019,2021 Tigera, Inc. All rights reserved.
Copyright (c) 2019-2020 Tigera, Inc. All rights reserved.
Copyright (c) 2019-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2020  All rights reserved.
Copyright (c) 2020 Nordix Foundation
Copyright (c) 2020 Tigera, Inc. All rights reserved.
Copyright (c) 2020-2021 Tigera, Inc. All rights reserved.
Copyright (c) 2020-2022 Tigera, Inc. All rights reserved.
Copyright (c) 2021  All rights reserved.
Copyright (c) 2021 Tigera, Inc. All rights reserved.
Copyright (c) 2022 Tigera, Inc. All rights reserved.
Copyright (c) <year> <owner> . All rights reserved.
Copyright (c) YEAR Tigera, Inc. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The etcd Authors
Copyright 2016 The Kubernetes Authors
Copyright 2016 The Kubernetes Authors.
Copyright 2016 The etcd Authors
Copyright 2017 The Kubernetes Authors.
Copyright 2018 Tigera Inc
Copyright 2019 The Kubernetes Authors.
Copyright 2020 Cisco Systems Inc

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/projectcalico/go-json

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/projectcalico/go-yaml-wrapper

== License Type
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2014 Sam Ghods
Copyright 2013 The Go Authors. All rights reserved.

--------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/prometheus/client_golang

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2013, The Prometheus Authors
Copyright 2010 The Go Authors
Copyright 2012-2015 The Prometheus Authors
Copyright 2013 Matt T. Proud
```

```
Copyright 2013-2015 Blake Mizerany, BjÃ¶rn Rabenstein
Copyright 2014 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors

== Notices
Prometheus instrumentation library for Go applications
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


The following components are included in this product:

perks - a fork of https://github.com/bmizerany/perks
https://github.com/beorn7/perks
Copyright 2013-2015 Blake Mizerany, BjÃ¶rn Rabenstein
See https://github.com/beorn7/perks/blob/master/README.md for license
 details.

Go support for Protocol Buffers - Google's data interchange format
http://github.com/golang/protobuf/
Copyright 2010 The Go Authors
See source code for license details.

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/client_model

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2012-2015 The Prometheus Authors
Copyright 2013 Prometheus Team

== Notices
Data model artifacts for Prometheus.
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/common

== License Type
```

```
SPDX:Apache-2.0

== Copyright
Copyright (c) 2011, Open Knowledge Foundation Ltd.
Copyright 2013 The Prometheus Authors
Copyright 2014 The Prometheus Authors
Copyright 2015 The Prometheus Authors
Copyright 2016 The Prometheus Authors
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors

== Notices
Common libraries shared by Prometheus Go components.
Copyright 2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/prometheus/procfs

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Prometheus Team
Copyright 2014-2015 The Prometheus Authors
Copyright 2017 Prometheus Team
Copyright 2017 The Prometheus Authors
Copyright 2018 The Prometheus Authors
Copyright 2019 The Prometheus Authors
Copyright 2020 The Prometheus Authors

== Notices
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

Copyright 2014-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).


---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/safchain/ethtool

== License Type
SPDX:Apache-2.0

== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------
```

```
== Dependency
github.com/satori/go.uuid

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>
Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/shirou/gopsutil

== License Type
gopsutil is distributed under BSD license reproduced below.

Copyright (c) 2014, WAKAYAMA Shirou
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name of the gopsutil authors nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------
internal/common/binary.go in the gopsutil is copied and modifid from golang/
encoding/binary.go.



Copyright (c) 2009 The Go Authors. All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2014, WAKAYAMA Shirou
Copyright 2009 The Go Authors.  All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/sirupsen/logrus

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2012 Miki Tebeka <miki.tebeka@gmail.com>.
Copyright (c) 2014 Simon Eskildsen
Copyright 2013 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/spf13/afero

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 tsuru authors. All rights reserved.
Copyright 2016-present BjÃ¸rn Erik Pedersen <bjorn.erik.pedersen@gmail.com>
Copyright Â© 2014 Steve Francia <spf@spf13.com>.
Copyright Â© 2015 Jerry Jacobs <jerry.jacobs@xor-gate.org>.
Copyright Â© 2015 Steve Francia <spf@spf13.com>.
Copyright Â© 2016 Steve Francia <spf@spf13.com>.
```

```
Copyright Â© 2018 Steve Francia <spf@spf13.com>.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/spf13/cast

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Steve Francia
Copyright 2011 The Go Authors. All rights reserved.
Copyright Â© 2014 Steve Francia <spf@spf13.com>.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/spf13/cobra

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Copyright (C) <year>  <name of author>
Copyright (C) year name of author
Copyright 2015 Red Hat Inc. All rights reserved.
Copyright 2016 French Ben. All rights reserved.
Copyright Â© " + year + " " + author
Copyright Â© 2013 Steve Francia <spf@spf13.com>.
Copyright Â© 2015 Steve Francia <spf@spf13.com>.
Copyright Â© 2020 Steve Francia <spf@spf13.com>

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/spf13/jwalterweatherman

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Steve Francia
Copyright Â© 2016 Steve Francia <spf@spf13.com>.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/spf13/pflag

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors.  All rights reserved.
```

```
Copyright 2012 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/spf13/viper

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Steve Francia
Copyright Â© 2014 Steve Francia <spf@spf13.com>.
Copyright Â© 2015 Steve Francia <spf@spf13.com>.
Copyright Â© 2016 Steve Francia <spf@spf13.com>.

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/subosito/gotenv

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2013 Alif Rachmawadi

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/tchap/go-patricia/v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 The AUTHORS
Copyright (c) 2014 The go-patricia AUTHORS

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/termie/go-shutil

== License Type
I guess Python's? If that doesn't apply then MIT. Have fun.



== Copyright
(no copyright notices found)

---------------------------------- (separator)
 -----------------------------------

== Dependency
github.com/vishvananda/netlink

== License Type
SPDX:Apache-2.0
```

```
== Copyright
Copyright 2014 Docker, Inc.
Copyright 2014 Vishvananda Ishaya.

---------------------------------- (separator)
 ----------------------------------

== Dependency
github.com/vishvananda/netns

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Docker, Inc.
Copyright 2014 Vishvananda Ishaya.

---------------------------------- (separator)
 ----------------------------------

== Dependency
go.etcd.io/etcd

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2013 The etcd Authors
Copyright 2014 CoreOS, Inc
Copyright 2014 The etcd Authors
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2015 The etcd Authors
Copyright 2016 The etcd Authors
Copyright 2017 The etcd Authors
Copyright 2017 The etcd Lockors
Copyright 2018 The etcd Authors
Copyright 2019 The etcd Authors
Copyright 2020 The etcd Authors

== Notices
CoreOS Project
Copyright 2014 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).


---------------------------------- (separator)
 ----------------------------------

== Dependency
go.uber.org/atomic

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2019 Uber Technologies, Inc.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
go.uber.org/multierr

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2019 Uber Technologies, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
go.uber.org/zap

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2016 Uber Technologies, Inc.
Copyright (c) 2016, 2017 Uber Technologies, Inc.
Copyright (c) 2016-2017 Uber Technologies, Inc.
Copyright (c) 2017 Uber Technologies, Inc.
Copyright (c) 2018 Uber Technologies, Inc.
Copyright (c) 2019 Uber Technologies, Inc.
Copyright (c) 2020 Uber Technologies, Inc.

---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/crypto

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
```

```
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/net

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/oauth2

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2015 The oauth2 Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2017 The oauth2 Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The oauth2 Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sync

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/sys

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/term

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
```

```
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.org/x/text

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
```

```
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/time

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
golang.org/x/xerrors

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2019 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
```

```
Copyright 2019 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 -----------------------------------

== Dependency
golang.zx2c4.com/wireguard/wgctrl

== License Type
SPDX:MIT

== Copyright
Copyright (C) 2018-2019 Matt Layher

---------------------------------- (separator)
 -----------------------------------

== Dependency
google.golang.org/genproto

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2015, Google Inc.
Copyright 2016 Google Inc.
Copyright 2017 Google Inc.
Copyright 2018 Google Inc.
Copyright 2018 Google LLC
Copyright 2018 The Grafeas Authors. All rights reserved.
Copyright 2019 Google LLC
Copyright 2019 Google LLC.
Copyright 2020 Google LLC
Copyright 2020 Google LLC.

---------------------------------- (separator)
 -----------------------------------

== Dependency
```

```
google.golang.org/grpc

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 gRPC authors.
Copyright 2015 gRPC authors.
Copyright 2016 gRPC authors.
Copyright 2017 gRPC authors.
Copyright 2018 gRPC authors.
Copyright 2019 gRPC authors.
Copyright 2020 gRPC authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
google.golang.org/protobuf

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2018 The Go Authors. All rights reserved.
Copyright 2008 Google Inc.  All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.",
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.",
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.

== Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


---------------------------------- (separator)
 ----------------------------------

== Dependency
gopkg.in/alecthomas/kingpin.v2
```

```
== License Type
SPDX:MIT

== Copyright
Copyright (C) 2014 Alec Thomas

---------------------------------- (separator)
 ----------------------------------

== Dependency
gopkg.in/fsnotify/fsnotify.v1

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012 fsnotify Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
gopkg.in/go-playground/validator.v9

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2015 Dean Karn

---------------------------------- (separator)
 ----------------------------------

== Dependency
gopkg.in/inf.v0

== License Type
SPDX:BSD-3-Clause--modified-by-Google

== Copyright
Copyright (c) 2012 PÃ©ter SurÃ¡nyi. Portions Copyright (c) 2009 The Go

---------------------------------- (separator)
 ----------------------------------

== Dependency
gopkg.in/ini.v1

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 Unknwon
Copyright 2015 Unknwon
Copyright 2016 Unknwon
Copyright 2017 Unknwon
Copyright 2019 Unknwon
```

```
---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/natefinch/lumberjack.v2

== License Type
SPDX:MIT

== Copyright
Copyright (c) 2014 Nate Finch

---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/tomb.v1

== License Type
tomb - support for clean goroutine termination in Go.

Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer <gustavo@niemeyer.net>

---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/tomb.v2
```

```
== License Type
tomb - support for clean goroutine termination in Go.

Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2011 - Gustavo Niemeyer <gustavo@niemeyer.net>

---------------------------------- (separator)
 -----------------------------------

== Dependency
gopkg.in/yaml.v2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2006 Kirill Simonov
Copyright 2011-2016 Canonical Ltd.

== Notices
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
```

```
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/api

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/apiextensions-apiserver

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/apimachinery

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.
```

```
---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/apiserver

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/client-go

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/component-base

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/component-helpers
```

```
== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
k8s.io/klog

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 Google Inc. All Rights Reserved.

---------------------------------- (separator)
 -----------------------------------

== Dependency
k8s.io/klog/v2

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2013 Google Inc. All Rights Reserved.
Copyright 2020 The Kubernetes Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
k8s.io/kube-openapi

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (C) MongoDB, Inc. 2017-present.
Copyright 2015 go-swagger maintainers
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2017 go-swagger maintainers
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.

---------------------------------- (separator)
 -----------------------------------

== Dependency
k8s.io/kubernetes

== License Type
SPDX:Apache-2.0

== Copyright
```

```
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2015-2016 Manfred Touron
Copyright (c) Microsoft Corporation. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 Microsoft Corporation
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.
Copyright 2021 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
k8s.io/utils

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2014 The Kubernetes Authors.
Copyright 2015 The Kubernetes Authors.
Copyright 2016 The Kubernetes Authors.
Copyright 2017 The Kubernetes Authors.
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
modernc.org/memory

== License Type
Copyright (c) 2017 The Memory Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the names of the authors nor the names of the
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2011, Evan Shaw <edsrzf@gmail.com>
Copyright (c) 2017 The Memory Authors. All rights reserved.
Copyright 2011 Evan Shaw. All rights reserved.
Copyright 2017 The Memory Authors. All rights reserved.
Copyright 2018 The Memory Authors. All rights reserved.

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/apiserver-network-proxy/konnectivity-client

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2019 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/kind

== License Type
SPDX:Apache-2.0

== Copyright
Copyright (c) 2015-2018 gimme contributors
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/structured-merge-diff/v4

== License Type
SPDX:Apache-2.0

== Copyright
Copyright 2018 The Kubernetes Authors.
Copyright 2019 The Kubernetes Authors.
Copyright 2020 The Kubernetes Authors.

---------------------------------- (separator)
 ----------------------------------

== Dependency
sigs.k8s.io/yaml

== License Type
```

```
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



== Copyright
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2014 Sam Ghods
Copyright 2013 The Go Authors. All rights reserved.

------------------------------------ Licenses
 ------------------------------------
```

```
---------------------------------- (separator)
 ----------------------------------
== SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control with
that entity. For the purposes of this definition, "control" means (i) the
power, direct or indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (ii) ownership of fifty percent
(50%) or more of the outstanding shares, or (iii) beneficial ownership of
 such
entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source, and
configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
made available under the License, as indicated by a copyright notice that is
included in or attached to the work (an example is provided in the Appendix
below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
original work of authorship. For the purposes of this License, Derivative
Works shall not include works that remain separable from, or merely link (or
bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
version of the Work and any modifications or additions to that Work or
Derivative Works thereof, that is intentionally submitted to Licensor for
inclusion in the Work by the copyright owner or by an individual or Legal
Entity authorized to submit on behalf of the copyright owner. For the
 purposes
of this definition, "submitted" means any form of electronic, verbal, or
written communication sent to the Licensor or its representatives, including
```

```
but not limited to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by, or on
 behalf
of, the Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise designated
in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a
 copy
of this License; and

(b) You must cause any modified files to carry prominent notices stating
 that
You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You
distribute, all copyright, patent, trademark, and attribution notices from
 the
Source form of the Work, excluding those notices that do not pertain to any
part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution,
then any Derivative Works that You distribute must include a readable copy
 of
the attribution notices contained within such NOTICE file, excluding those
notices that do not pertain to any part of the Derivative Works, in at least
one of the following places: within a NOTICE text file distributed as part
 of
the Derivative Works; within the Source form or documentation, if provided
along with the Derivative Works; or, within a display generated by the
Derivative Works, if and wherever such third-party notices normally appear.
The contents of the NOTICE file are for informational purposes only and do
 not
```

```
modify the License. You may add Your own attribution notices within
 Derivative
Works that You distribute, alongside or as an addendum to the NOTICE text
 from
the Work, provided that such additional attribution notices cannot be
construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
whole, provided Your use, reproduction, and distribution of the Work
 otherwise
complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by
 You to the Licensor shall be under the terms and conditions of this
 License, without any additional terms or conditions. Notwithstanding the
 above, nothing herein shall supersede or modify the terms of any separate
 license agreement you may have executed with Licensor regarding such
 Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
```

```
To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don&apos;t include the brackets!) The text should
 be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.



--------------------------------- (separator)
 ----------------------------------
== SPDX:BSD-2-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
---------------------------------- (separator)
 -----------------------------------
== SPDX:BSD-3-Clause--modified-by-Google

Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


---------------------------------- (separator)
 -----------------------------------
== SPDX:MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.



---------------------------------- (separator)
 -----------------------------------
== SPDX:MPL-2.0
```

```
Mozilla Public License Version 2.0

1. Definitions

1.1. "Contributor" means each individual or legal entity that creates,
contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version" means the combination of the Contributions of
others (if any) used by a Contributor and that particular Contributor&apos;s
Contribution.

1.3. "Contribution" means Covered Software of a particular Contributor.

1.4. "Covered Software" means Source Code Form to which the initial
Contributor has attached the notice in Exhibit A, the Executable Form of
 such
Source Code Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses" means

(a) that the initial Contributor has attached the notice described in
 Exhibit
B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version
1.1 or earlier of the License, but not also under the terms of a Secondary
License.

1.6. "Executable Form" means any form of the work other than Source Code
 Form.

1.7. "Larger Work" means a work that combines Covered Software with other
material, in a separate file or files, that is not Covered Software.

1.8. "License" means this document.

1.9. "Licensable" means having the right to grant, to the maximum extent
possible, whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications" means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion
from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor means any patent claim(s), including
without limitation, method, process, and apparatus claims, in any patent
Licensable by such Contributor that would be infringed, but for the grant of
the License, by the making, using, selling, offering for sale, having made,
import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License" means either the GNU General Public License,
 Version
2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero
General Public License, Version 3.0, or any later versions of those
 licenses.

1.13. "Source Code Form" means the form of the work preferred for making
modifications.

1.14. "You" (or "Your") means an individual or a legal entity exercising
```

```
rights under this License. For legal entities, "You" includes any entity
 that
controls, is controlled by, or is under common control with You. For
 purposes
of this definition, "control" means (a) the power, direct or indirect, to
cause the direction or management of such entity, whether by contract or
otherwise, or (b) ownership of more than fifty percent (50%) of the
outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available, modify,
display, perform, distribute, and otherwise exploit its Contributions,
 either
on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for
sale, have made, import, and otherwise transfer either its Contributions or
its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become
effective for each Contribution on the date the Contributor first
 distributes
such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
 this
License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party&apos;s
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
 Version);
or

(c) under Patent Claims infringed by Covered Software in the absence of its
Contributions.

This License does not grant any rights in the trademarks, service marks, or
logos of any Contributor (except as may be necessary to comply with the
 notice
requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this License
(see Section 10.2) or under the terms of a Secondary License (if permitted
under the terms of Section 3.3).
```

```
2.5. Representation

Each Contributor represents that the Contributor believes its Contributions
are its original creation(s) or it has sufficient rights to grant the rights
to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable
copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under the
terms of this License. You must inform recipients that the Source Code Form
 of
the Covered Software is governed by the terms of this License, and how they
can obtain a copy of this License. You may not attempt to alter or restrict
the recipients&apos; rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form,
 as
described in Section 3.1, and You must inform recipients of the Executable
Form how they can obtain a copy of such Source Code Form by reasonable means
in a timely manner, at a charge no more than the cost of distribution to the
recipient; and

(b) You may distribute such Executable Form under the terms of this License,
or sublicense it under different terms, provided that the license for the
Executable Form does not attempt to limit or alter the recipients&apos;
 rights
in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for the
Covered Software. If the Larger Work is a combination of Covered Software
 with
a work governed by one or more Secondary Licenses, and the Covered Software
 is
not Incompatible With Secondary Licenses, this License permits You to
additionally distribute such Covered Software under the terms of such
Secondary License(s), so that the recipient of the Larger Work may, at their
option, further distribute the Covered Software under the terms of either
 this
License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including
```

```
copyright notices, patent notices, disclaimers of warranty, or limitations
 of
liability) contained within the Source Code Form of the Covered Software,
except that You may alter any license notices to the extent required to
 remedy
known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
 indemnity
or liability obligations to one or more recipients of Covered Software.
However, You may do so only on Your own behalf, and not on behalf of any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity, or liability obligation is offered by You alone, and You
hereby agree to indemnify every Contributor for any liability incurred by
 such
Contributor as a result of warranty, support, indemnity or liability terms
 You
offer. You may include additional disclaimers of warranty and limitations of
liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
with respect to some or all of the Covered Software due to statute, judicial
order, or regulation then You must: (a) comply with the terms of this
 License
to the maximum extent possible; and (b) describe the limitations and the
 code
they affect. Such description must be placed in a text file included with
 all
distributions of the Covered Software under this License. Except to the
 extent
prohibited by statute or regulation, such description must be sufficiently
detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if
 You
fail to comply with any of its terms. However, if You become compliant, then
the rights granted under this License from a particular Contributor are
reinstated (a) provisionally, unless and until such Contributor explicitly
 and
finally terminates Your grants, and (b) on an ongoing basis, if such
Contributor fails to notify You of the non-compliance by some reasonable
 means
prior to 60 days after You have come back into compliance. Moreover, Your
grants from a particular Contributor are reinstated on an ongoing basis if
such Contributor notifies You of the non-compliance by some reasonable
 means,
this is the first time You have received notice of non-compliance with this
License from such Contributor, and You become compliant prior to 30 days
 after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions, counter-claims,
and cross-claims) alleging that a Contributor Version directly or indirectly
infringes any patent, then the rights granted to You by any and all
Contributors for the Covered Software under Section 2.1 of this License
 shall
terminate.
```

```
5.3. In the event of termination under Sections 5.1 or 5.2 above, all end
 user
license agreements (excluding distributors and resellers) which have been
validly granted by You or Your distributors under this License prior to
termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an "as is" basis, without
warranty of any kind, either expressed, implied, or statutory, including,
without limitation, warranties that the Covered Software is free of defects,
merchantable, fit for a particular purpose or non-infringing. The entire
 risk
as to the quality and performance of the Covered Software is with You.
 Should
any Covered Software prove defective in any respect, You (not any
 Contributor)
assume the cost of any necessary servicing, repair, or correction. This
disclaimer of warranty constitutes an essential part of this License. No use
of any Covered Software is authorized under this License except under this
disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including
negligence), contract, or otherwise, shall any Contributor, or anyone who
distributes Covered Software as permitted above, be liable to You for any
direct, indirect, special, incidental, or consequential damages of any
character including, without limitation, damages for lost profits, loss of
goodwill, work stoppage, computer failure or malfunction, or any and all
 other
commercial damages or losses, even if such party shall have been informed of
the possibility of such damages. This limitation of liability shall not
 apply
to liability for death or personal injury resulting from such party&apos;s
negligence to the extent applicable law prohibits such limitation. Some
jurisdictions do not allow the exclusion or limitation of incidental or
consequential damages, so this exclusion and limitation may not apply to
 You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of
 a
jurisdiction where the defendant maintains its principal place of business
 and
such litigation shall be governed by laws of that jurisdiction, without
reference to its conflict-of-law provisions. Nothing in this Section shall
prevent a party&apos;s ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. Any law or regulation which provides that the language of a
contract shall be construed against the drafter shall not be used to
 construe
this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
 10.3,
no one other than the license steward has the right to modify or publish new
```

```
versions of this License. Each version will be given a distinguishing
 version
number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of
 the
License under which You originally received the Covered Software, or under
 the
terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create
 a
new license for such software, you may create and use a modified version of
this License if you rename the license and remove any references to the name
of the license steward (except to note that such modified license differs
 from
this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
 notice
described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined
 by
the Mozilla Public License, v. 2.0.
```

Provider: Tim Caswell / Component(s): nvm-sh 0.34.0

```
nvm-sh/nvm 0.34.0

COPYRIGHT and LICENSE:

The MIT License (MIT)

Copyright (c) 2010 Tim Caswell

Copyright (c) 2014 Jordan Harband
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Tim Pease / Component(s): Inifile 3

```
MIT License
Copyright (c) 2006 - 2014 Tim Pease

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Tim Wood, Iskren Chernev, Moment.js contributors / Component(s): Moment.js 2.29.1

```
Copyright (c) JS Foundation and other contributors

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
```

```
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Tim Wood, Iskren Chernev, Moment.js contributors / Component(s): Moment.js 2.29.1

```
Copyright (c) JS Foundation and other contributors

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

Provider: TJ Holowaychuk / Component(s): cookie-parser 1.4.5

```
(The MIT License)

Copyright (c) 2014 TJ Holowaychuk
Copyright (c) 2015 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
cookie 0.3.1 (MIT)
```

```
--------------------------------------------------------------------------------
(The MIT License)

Copyright (c) 2012-2014 Roman Shtylman
Copyright (c) 2015 Douglas Christopher Wilson

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
cookie-signature 1.0.6 (MIT)
--------------------------------------------------------------------------------
(The MIT License)

Copyright (c) 2012 LearnBoost <tj@learnboost.com>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
'Software'), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Tom Desair / Component(s): tus-java-server 1.0.0-1.3

```
tus-java-server 1.0.0-1.3
COPYRIGHT and LICENSE:
MIT License

Copyright (c) 2017 Tom Desair (http://tom.desair.me)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------
4P Dependencies:


org.apache.commons commons-lang3 3.7
COPYRIGHT: Copyright 2001-2017 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/commons-lang/blob/LANG_3_7/
LICENSE.txt


---
commons-io 2.6
COPYRIGHT: Copyright 2002-2017 The Apache Software Foundation
LICENSE: Apache 2.0 https://github.com/apache/commons-io/blob/commons-
io-2.6-RC3/LICENSE.txt


---
commons-codec 1.11
COPYRIGHT: Copyright 2002-2017 The Apache Software Foundation
LICENSE: Apache 2.0

* Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements.  See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License.  You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
* limitations under the License.


src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)
-----------------

The content of package org.apache.commons.codec.language.bm has been
 translated
```

```
from the original php source code available at http://stevemorse.org/
phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.



---
org.slf4j slf4j-api 1.7.25
COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Tomitribe / Component(s): HTTP Signatures Java Client 1.3

```
from pom.xml
<!--
  ~ Licensed to the Apache Software Foundation (ASF) under one or more
  ~ contributor license agreements.  See the NOTICE file distributed with
  ~ this work for additional information regarding copyright ownership.
  ~ The ASF licenses this file to You under the Apache License, Version 2.0
  ~ (the "License"); you may not use this file except in compliance with
  ~ the License.  You may obtain a copy of the License at
  ~
  ~      http://www.apache.org/licenses/LICENSE-2.0
  ~
  ~ Unless required by applicable law or agreed to in writing, software
  ~ distributed under the License is distributed on an "AS IS" BASIS,
  ~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  ~ See the License for the specific language governing permissions and
  ~ limitations under the License.
  -->

from classes:
/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements.  See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License.  You may obtain a copy of the License at
 *
```

```
 *     http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

and inside one class, there was this mention:
    // Extracted from:
    // http://oauth.googlecode.com/svn/code/branches/jmeter/jmeter/src/main/
java/org/apache/jmeter/protocol/oauth/sampler/PrivateKeyReader.java
    // See p.41 of http://www.emc.com/emc-plus/rsa-labs/pkcs/files/h11300-
wp-pkcs-1v2-2-rsa-cryptography-standard.pdf

    /
*****************************************************************************
     * Amazon Modifications: Copyright 2014 Amazon.com, Inc. or its
 affiliates.
     * All Rights Reserved.

 ******************************************************************************
     * Copyright (c) 1998-2010 AOL Inc.
     *
     * Licensed under the Apache License, Version 2.0 (the "License");
     * you may not use this file except in compliance with the License.
     * You may obtain a copy of the License at
     *
     *     http://www.apache.org/licenses/LICENSE-2.0
     *
     * Unless required by applicable law or agreed to in writing, software
     * distributed under the License is distributed on an "AS IS" BASIS,
     * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 implied.
     * See the License for the specific language governing permissions and
     * limitations under the License.
     *

 ******************************************************************************
     * Convert PKCS#1 encoded private key into RSAPrivateCrtKeySpec.
     *
     * <p/>The ASN.1 syntax for the private key with CRT is
     *
     * <pre>
     * --
     * -- Representation of RSA private key with information for the CRT
 algorithm.
     * --
     * RSAPrivateKey ::= SEQUENCE {
     *   version           Version,
     *   modulus           INTEGER,  -- n
     *   publicExponent    INTEGER,  -- e
     *   privateExponent   INTEGER,  -- d
     *   prime1            INTEGER,  -- p
     *   prime2            INTEGER,  -- q
     *   exponent1         INTEGER,  -- d mod (p-1)
     *   exponent2         INTEGER,  -- d mod (q-1)
     *   coefficient       INTEGER,  -- (inverse of q) mod p
     *   otherPrimeInfos   OtherPrimeInfos OPTIONAL
     * }
     * </pre>
     *
```

Provider: Tri Dao / Component(s): flash-attn 2.5.3

```
==================================Third Party
 Info===================================
flash-attn
BSD License
BSD 3-Clause License

Copyright (c) 2022, the respective contributors, as shown by the AUTHORS
 file.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==================================Fourth Party
 Info===================================
##########################################
Fourth party public dependencies
##########################################
einops
filelock
flash-attn
fsspec
jinja2
markupsafe
mpmath
networkx
ninja
packaging
sympy
torch
typing-extensions
-----------------------------------------------
einops
MIT License
MIT License
```

Copyright (c) 2018 Alex Rogozhnikov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---

filelock

The Unlicense (Unlicense)
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

---

flash-attn

BSD License
BSD 3-Clause License

Copyright (c) 2022, the respective contributors, as shown by the AUTHORS
 file.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
fsspec
BSD License
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
----------------------------------------------
jinja2
BSD License
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
markupsafe
BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
----------------------------------------------
mpmath
BSD License
Copyright (c) 2005-2021 Fredrik Johansson and mpmath contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

----------------------------------------------
networkx
BSD License
NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2023, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------
ninja
Apache Software License; BSD License
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities
that control, are controlled by, or are under common control with that
 entity.
For the purposes of this definition, "control" means (i) the power, direct
 or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of
 the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including
but not limited to software source code, documentation source, and
 configuration
files.

"Object" form shall mean any form resulting from mechanical transformation
 or
translation of a Source form, including but not limited to compiled object
 code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made
available under the License, as indicated by a copyright notice that is
 included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that
is based on (or derived from) the Work and for which the editorial
 revisions,
annotations, elaborations, or other modifications represent, as a whole, an
```

```
original work of authorship. For the purposes of this License, Derivative
 Works
shall not include works that remain separable from, or merely link (or bind
 by
name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version
of the Work and any modifications or additions to that Work or Derivative
 Works
thereof, that is intentionally submitted to Licensor for inclusion in the
 Work
by the copyright owner or by an individual or Legal Entity authorized to
 submit
on behalf of the copyright owner. For the purposes of this definition,
"submitted" means any form of electronic, verbal, or written communication
 sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems, and
issue tracking systems that are managed by, or on behalf of, the Licensor
 for
the purpose of discussing and improving the Work, but excluding
 communication
that is conspicuously marked or otherwise designated in writing by the
 copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on
 behalf
of whom a Contribution has been received by Licensor and subsequently
incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and
 such
Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby
grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-
free,
irrevocable (except as stated in this section) patent license to make, have
made, use, offer to sell, sell, import, and otherwise transfer the Work,
 where
such license applies only to those patent claims licensable by such
 Contributor
that are necessarily infringed by their Contribution(s) alone or by
 combination
of their Contribution(s) with the Work to which such Contribution(s) was
submitted. If You institute patent litigation against any entity (including
 a
cross-claim or counterclaim in a lawsuit) alleging that the Work or a
Contribution incorporated within the Work constitutes direct or contributory
patent infringement, then any patent licenses granted to You under this
 License
for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.
```

```
You may reproduce and distribute copies of the Work or Derivative Works
 thereof
in any medium, with or without modifications, and in Source or Object form,
provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
this License; and
You must cause any modified files to carry prominent notices stating that
 You
changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute,
all copyright, patent, trademark, and attribution notices from the Source
 form
of the Work, excluding those notices that do not pertain to any part of the
Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then
 any
Derivative Works that You distribute must include a readable copy of the
attribution notices contained within such NOTICE file, excluding those
 notices
that do not pertain to any part of the Derivative Works, in at least one of
 the
following places: within a NOTICE text file distributed as part of the
Derivative Works; within the Source form or documentation, if provided along
with the Derivative Works; or, within a display generated by the Derivative
Works, if and wherever such third-party notices normally appear. The
 contents of
the NOTICE file are for informational purposes only and do not modify the
License. You may add Your own attribution notices within Derivative Works
 that
You distribute, alongside or as an addendum to the NOTICE text from the
 Work,
provided that such additional attribution notices cannot be construed as
modifying the License.
You may add Your own copyright statement to Your modifications and may
 provide
additional or different license terms and conditions for use, reproduction,
 or
distribution of Your modifications, or for any such Derivative Works as a
 whole,
provided Your use, reproduction, and distribution of the Work otherwise
 complies
with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally
 submitted
for inclusion in the Work by You to the Licensor shall be under the terms
 and
conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the
 terms of
any separate license agreement you may have executed with Licensor regarding
such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.
```

```
7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides
 the
Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied,
including, without limitation, any warranties or conditions of TITLE,
NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You
 are
solely responsible for determining the appropriateness of using or
redistributing the Work and assume any risks associated with Your exercise
 of
permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including
 negligence),
contract, or otherwise, unless required by applicable law (such as
 deliberate
and grossly negligent acts) or agreed to in writing, shall any Contributor
 be
liable to You for damages, including any direct, indirect, special,
 incidental,
or consequential damages of any character arising as a result of this
 License or
out of the use or inability to use the Work (including but not limited to
damages for loss of goodwill, work stoppage, computer failure or
 malfunction, or
any and all other commercial damages or losses), even if such Contributor
 has
been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to
offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License.
 However,
in accepting such obligations, You may act only on Your own behalf and on
 Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any
 liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included
 on
the same "printed page" as the copyright notice for easier identification
 within
third-party archives.

   Copyright [yyyy] [name of copyright owner]
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------------------------------------------
packaging
Apache Software License; BSD License
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

----------------------------------------------
sympy
BSD License
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:

Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev

All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:

Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:
```

```
Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
torch
From PyTorch:
```

```
Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
```

```
3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
----------------------------------------------
typing-extensions

A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
```

```
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
```

```
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.
```

```
7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
```

```
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
------------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
---------------------------------------------
===================================Licenses===================================
```

Provider: Trilead AG / Component(s): Trilead-ssh2 build-217-jenkins-8

```
Copyright (c) 2007-2008 Trilead AG (http://www.trilead.com)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
```

```
a.) Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
b.) Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
c.) Neither the name of Trilead nor the names of its contributors may
    be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Trilead SSH-2 for Java includes code that was written by Dr. Christian
 Plattner
during his PhD at ETH Zurich. The license states the following:

Copyright (c) 2005 - 2006 Swiss Federal Institute of Technology (ETH
 Zurich),
  Department of Computer Science (http://www.inf.ethz.ch),
  Christian Plattner. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

a.) Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
b.) Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
c.) Neither the name of ETH Zurich nor the names of its contributors may
    be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

The Java implementations of the AES, Blowfish and 3DES ciphers have been
taken (and slightly modified) from the cryptography package released by
"The Legion Of The Bouncy Castle".

Their license states the following:

Copyright (c) 2000 - 2004 The Legion Of The Bouncy Castle
(http://www.bouncycastle.org)
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
----------------
```

Provider: Typesafe Inc. / Component(s): Playframework Anorm 2.6.2

```
com.typesafe.play:anorm:2.6.0-M1
COPYRIGHT: Copyright (C) 2009-2015 Typesafe Inc. <http://www.typesafe.com>
LICENSE: Apache 2.0

                            Apache License
                        Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



*****************
4P Dependencies:
*****************

com.jsuereth scala-arm 2.0
COPYRIGHT: Copyright Josh Suereth

LICENSE: BSD 3-Clause
For now, feel free to re-use code, but the images/posts are Copyright Josh
 Suereth, so ask permission!


Copyright (c) 2002-2013 EPFL, Lausanne, unless otherwise specified. All
 rights reserved.

This software was developed by the Programming Methods Laboratory of the
 Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland.

Permission to use, copy, modify, and distribute this software in source or
 binary form for any purpose with or without fee is hereby granted, provided
 that the following conditions are met:

    Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    Neither the name of the EPFL nor the names of its contributors may be
 used to endorse or promote products derived from this software without
 specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
```

```
---
joda-time 2.9.7
COPYRIGHT: Copyright 2001-2009 Stephen Colebourne

LICENSE: Apache 2.0 https://github.com/JodaOrg/joda-time/blob/v2.9.7/
LICENSE.txt


---
joda-convert 1.8.1
COPYRIGHT:
Joda Convert
Copyright 2010-present Stephen Colebourne

LICENSE: Apache 2.0 https://github.com/JodaOrg/joda-convert/blob/master/
LICENSE.txt


Joda-Convert includes code from Google Guava, which is licensed as follows:

Copyright (C) 2011 The Guava Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not
 use this file except
in compliance with the License. You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
 distributed under the License
is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 KIND, either express
or implied. See the License for the specific language governing permissions
 and limitations under
the License.



---
org.scala-lang.modules scala-parser-combinators 1.0.4
COPYRIGHT and LICENSE:

Copyright (c) 2002-2013 EPFL Copyright (c) 2011-2013 Typesafe, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the EPFL nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
```

```
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

Provider: Typesafe Inc./ Component(s): scala-logging 3.9.2

```
Scala Logging 3.9.2
COPYRIGHT: Copyright 2014 Typesafe Inc. <http://www.typesafe.com>

LICENSE: Apache 2.0


Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
```

```
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

    You must give any other recipients of the Work or Derivative Works a
 copy of this License; and
    You must cause any modified files to carry prominent notices stating
 that You changed the files; and
    You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
    If the Work includes a "NOTICE" text file as part of its distribution,
 then any Derivative Works that You distribute must include a readable copy
 of the attribution notices contained within such NOTICE file, excluding
 those notices that do not pertain to any part of the Derivative Works, in
 at least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
```

```
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and
 may provide additional or different license terms and conditions for
 use, reproduction, or distribution of Your modifications, or for any
 such Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



***************************
4P Dependencies:
***************************

org.scala-lang:scala-library:2.13.0
org.scala-lang:scala-reflect:2.13.0
```

```
COPYRIGHT:
Scala
Copyright (c) 2002-2019 EPFL
Copyright (c) 2011-2019 Lightbend, Inc.

This software includes projects with other licenses -- see `doc/LICENSE.md`.

LICENSE: Apache 2.0 https://github.com/scala/scala/blob/2.13.x/LICENSE



===
slf4j-api 1.7.26
jul-to-slf4j 1.7.26
jcl-over-slf4j 1.7.26

COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,    FITNESS    FOR    A   PARTICULAR    PURPOSE    AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Typesafe Inc. / Component(s): Typesafe-config 1.3.4

```
typesafe config 1.3.4
COPYRIGHT: Copyright (C) 2011-2015 Typesafe Inc. <http://typesafe.com>
LICENSE: Apache 2.0
                              Apache License
                         Version 2.0, January 2004
                      https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
```

```
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
```

```
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
```

```
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       https://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
limitations under the License.

APPENDIX: HOW TO APPLY THE APACHE LICENSE TO YOUR WORK
To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
```

```
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


==========================================================================================
Fourth party dependencies


jansi 1.4
javax.inject 1
lift-json_2.10 2.5
scala-reflect 2.10.0
typesafe-config 1.3.3

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
 distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
 copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
 entities that control, are controlled by, or are under common control
 with that entity. For the purposes of this definition, "control" means
 (i) the power, direct or indirect, to cause the direction or management
 of such entity, whether by contract or otherwise, or (ii) ownership of
 fifty percent (50%) or more of the outstanding shares, or (iii) beneficial
 ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
 permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
 including but not limited to software source code, documentation source,
 and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
 or translation of a Source form, including but not limited to compiled
 object code, generated documentation, and conversions to other media types.
```

```
"Work" shall mean the work of authorship, whether in Source or Object form,
 made available under the License, as indicated by a copyright notice that
 is included in or attached to the work (an example is provided in the
 Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
 that is based on (or derived from) the Work and for which the editorial
 revisions, annotations, elaborations, or other modifications represent, as
 a whole, an original work of authorship. For the purposes of this License,
 Derivative Works shall not include works that remain separable from, or
 merely link (or bind by name) to the interfaces of, the Work and Derivative
 Works thereof.

"Contribution" shall mean any work of authorship, including the original
 version of the Work and any modifications or additions to that Work or
 Derivative Works thereof, that is intentionally submitted to Licensor
 for inclusion in the Work by the copyright owner or by an individual
 or Legal Entity authorized to submit on behalf of the copyright owner.
 For the purposes of this definition, "submitted" means any form of
 electronic, verbal, or written communication sent to the Licensor or its
 representatives, including but not limited to communication on electronic
 mailing lists, source code control systems, and issue tracking systems that
 are managed by, or on behalf of, the Licensor for the purpose of discussing
 and improving the Work, but excluding communication that is conspicuously
 marked or otherwise designated in writing by the copyright owner as "Not a
 Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
 on behalf of whom a Contribution has been received by Licensor and
 subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 sublicense, and distribute the Work and such Derivative Works in Source or
 Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
 License, each Contributor hereby grants to You a perpetual, worldwide,
 non-exclusive, no-charge, royalty-free, irrevocable (except as stated in
 this section) patent license to make, have made, use, offer to sell, sell,
 import, and otherwise transfer the Work, where such license applies only
 to those patent claims licensable by such Contributor that are necessarily
 infringed by their Contribution(s) alone or by combination of their
 Contribution(s) with the Work to which such Contribution(s) was submitted.
 If You institute patent litigation against any entity (including a cross-
claim or counterclaim in a lawsuit) alleging that the Work or a Contribution
 incorporated within the Work constitutes direct or contributory patent
 infringement, then any patent licenses granted to You under this License
 for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or
 Derivative Works thereof in any medium, with or without modifications, and
 in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of
 this License; and
You must cause any modified files to carry prominent notices stating that
 You changed the files; and
You must retain, in the Source form of any Derivative Works that You
 distribute, all copyright, patent, trademark, and attribution notices from
 the Source form of the Work, excluding those notices that do not pertain to
 any part of the Derivative Works; and
```

```
If the Work includes a "NOTICE" text file as part of its distribution, then
 any Derivative Works that You distribute must include a readable copy of
 the attribution notices contained within such NOTICE file, excluding those
 notices that do not pertain to any part of the Derivative Works, in at
 least one of the following places: within a NOTICE text file distributed
 as part of the Derivative Works; within the Source form or documentation,
 if provided along with the Derivative Works; or, within a display generated
 by the Derivative Works, if and wherever such third-party notices normally
 appear. The contents of the NOTICE file are for informational purposes only
 and do not modify the License. You may add Your own attribution notices
 within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution
 notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may
 provide additional or different license terms and conditions for use,
 reproduction, or distribution of Your modifications, or for any such
 Derivative Works as a whole, provided Your use, reproduction, and
 distribution of the Work otherwise complies with the conditions stated in
 this License.
5. Submission of Contributions. Unless You explicitly state otherwise,
 any Contribution intentionally submitted for inclusion in the Work by You
 to the Licensor shall be under the terms and conditions of this License,
 without any additional terms or conditions. Notwithstanding the above,
 nothing herein shall supersede or modify the terms of any separate license
 agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
 names, trademarks, service marks, or product names of the Licensor, except
 as required for reasonable and customary use in describing the origin of
 the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to
 in writing, Licensor provides the Work (and each Contributor provides its
 Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
 ANY KIND, either express or implied, including, without limitation, any
 warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY,
 or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for
 determining the appropriateness of using or redistributing the Work and
 assume any risks associated with Your exercise of permissions under this
 License.

8. Limitation of Liability. In no event and under no legal theory, whether
 in tort (including negligence), contract, or otherwise, unless required by
 applicable law (such as deliberate and grossly negligent acts) or agreed to
 in writing, shall any Contributor be liable to You for damages, including
 any direct, indirect, special, incidental, or consequential damages of
 any character arising as a result of this License or out of the use or
 inability to use the Work (including but not limited to damages for loss
 of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been
 advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the
 Work or Derivative Works thereof, You may choose to offer, and charge a
 fee for, acceptance of support, warranty, indemnity, or other liability
 obligations and/or rights consistent with this License. However, in
 accepting such obligations, You may act only on Your own behalf and on
 Your sole responsibility, not on behalf of any other Contributor, and only
 if You agree to indemnify, defend, and hold each Contributor harmless for
 any liability incurred by, or claims asserted against, such Contributor by
 reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
APPENDIX: HOW TO APPLY THE APACHE LICENSE TO YOUR WORK
To apply the Apache License to your work, attach the following boilerplate
 notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should
 be enclosed in the appropriate comment syntax for the file format. We
 also recommend that a file or class name and description of purpose be
 included on the same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


==================================================================================
paranamer 2.4.1

[ ParaNamer used to be 'Pubic Domain', but since it includes a small piece
 of ASM it is now the same license as that: BSD ]

 Portions copyright (c) 2006-2018 Paul Hammant & ThoughtWorks Inc
 Portions copyright (c) 2000-2007 INRIA, France Telecom
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGE.

 ==================================================================================

 test-interface 1
Copyright (c) 2009, 2010  Josh Cough, Mark Harrah
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 ==========================================================================================

 hamcrest-core 1.3
 jline  2.10.0

 Note: This license has also been called the "Simplified BSD License" and
 the "FreeBSD License". See also the 3-clause BSD License.

Copyright <YEAR> <COPYRIGHT HOLDER>

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

==========================================================================================

junit-interface 0.11

Copyright (c) 2009-2012, Stefan Zeiger
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

================================================================================

scala-compiler 2.10.0
scala-library 2.10.0
scalap 2.10.0

Scala is licensed under the BSD 3-Clause License.

Scala License
Copyright (c) 2002-  EPFL
Copyright (c) 2011-  Lightbend, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
Neither the name of the EPFL nor the names of its contributors may be used
 to endorse or promote products derived from this software without specific
 prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS”
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
================================================================================
junit 4.11

Eclipse Public License - v 2.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
 LICENSE (“AGREEMENT”). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
 CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
```

```
1. Definitions
“Contribution” means:

a) in the case of the initial Contributor, the initial content Distributed
 under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program; where such changes and/or additions to the
 Program originate from and are Distributed by that particular Contributor.
 A Contribution “originates” from a Contributor if it was added to the
 Program by such Contributor itself or anyone acting on such Contributor's
 behalf. Contributions do not include changes or additions to the Program
 that are not Modified Works.
“Contributor” means any person or entity that Distributes the Program.

“Licensed Patents” mean patent claims licensable by a Contributor which are
 necessarily infringed by the use or sale of its Contribution alone or when
 combined with the Program.

“Program” means the Contributions Distributed in accordance with this
 Agreement.

“Recipient” means anyone who receives the Program under this Agreement or
 any Secondary License (as applicable), including Contributors.

“Derivative Works” shall mean any work, whether in Source Code or other
 form, that is based on (or derived from) the Program and for which the
 editorial revisions, annotations, elaborations, or other modifications
 represent, as a whole, an original work of authorship.

“Modified Works” shall mean any work in Source Code or other form that
 results from an addition to, deletion from, or modification of the contents
 of the Program, including, for purposes of clarity any new file in Source
 Code form that contains any contents of the Program. Modified Works shall
 not include works that contain only declarations, interfaces, types,
 classes, structures, or files of the Program solely in each case in
 order to link to, bind by name, or subclass the Program or Modified Works
 thereof.

“Distribute” means the acts of a) distributing or b) making available in any
 manner that enables the transfer of a copy.

“Source Code” means the form of a Program preferred for making
 modifications, including but not limited to software source code,
 documentation source, and configuration files.

“Secondary License” means either the GNU General Public License, Version
 2.0, or any later versions of that license, including any exceptions or
 additional permissions as identified by the initial Contributor.

2. Grant of Rights
a) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free copyright license to
 reproduce, prepare Derivative Works of, publicly display, publicly perform,
 Distribute and sublicense the Contribution of such Contributor, if any, and
 such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby grants
 Recipient a non-exclusive, worldwide, royalty-free patent license under
 Licensed Patents to make, use, sell, offer to sell, import and otherwise
 transfer the Contribution of such Contributor, if any, in Source Code
 or other form. This patent license shall apply to the combination of the
 Contribution and the Program if, at the time the Contribution is added by
 the Contributor, such addition of the Contribution causes such combination
```

```
 to be covered by the Licensed Patents. The patent license shall not apply
 to any other combinations which include the Contribution. No hardware per
 se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses
 to its Contributions set forth herein, no assurances are provided by
 any Contributor that the Program does not infringe the patent or other
 intellectual property rights of any other entity. Each Contributor
 disclaims any liability to Recipient for claims brought by any other
 entity based on infringement of intellectual property rights or otherwise.
 As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other
 intellectual property rights needed, if any. For example, if a third party
 patent license is required to allow Recipient to Distribute the Program, it
 is Recipient's responsibility to acquire that license before distributing
 the Program.

d) Each Contributor represents that to its knowledge it has sufficient
 copyright rights in its Contribution, if any, to grant the copyright
 license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes
 additional grants to any Recipient (other than those set forth in this
 Agreement) as a result of such Recipient's receipt of the Program under the
 terms of a Secondary License (if permitted under the terms of Section 3).

3. Requirements
3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance
 with section 3.2, and the Contributor must accompany the Program with a
 statement that the Source Code for the Program is available under this
 Agreement, and informs Recipients how to obtain it in a reasonable manner
 on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than
 this Agreement, provided that such license:

i) effectively disclaims on behalf of all other Contributors all warranties
 and conditions, express and implied, including warranties or conditions
 of title and non-infringement, and implied warranties or conditions of
 merchantability and fitness for a particular purpose;
ii) effectively excludes on behalf of all other Contributors all liability
 for damages, including direct, indirect, special, incidental and
 consequential damages, such as lost profits;
iii) does not attempt to limit or alter the recipients' rights in the Source
 Code under section 3.2; and
iv) requires any subsequent distribution of the Program by any party to be
 under a license that satisfies the requirements of this section 3.
3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program (i)
 is combined with other material in a separate file or files made available
 under a Secondary License, and (ii) the initial Contributor attached to the
 Source Code the notice described in Exhibit A of this Agreement, then the
 Program may be made available under the terms of such Secondary Licenses,
 and
b) a copy of this Agreement must be included with each copy of the Program.
3.3 Contributors may not remove or alter any copyright, patent, trademark,
 attribution notices, disclaimers of warranty, or limitations of liability
 ("notices") contained within the Program from any copy of the Program which
 they Distribute, provided that Contributors may add their own appropriate
 notices.
```

```
4. Commercial Distribution
Commercial distributors of software may accept certain responsibilities with
 respect to end users, business partners and the like. While this license is
 intended to facilitate the commercial use of the Program, the Contributor
 who includes the Program in a commercial product offering should do so in
 a manner which does not create potential liability for other Contributors.
 Therefore, if a Contributor includes the Program in a commercial product
 offering, such Contributor ("Commercial Contributor") hereby agrees to
 defend and indemnify every other Contributor ("Indemnified Contributor")
 against any losses, damages and costs (collectively "Losses") arising from
 claims, lawsuits and other legal actions brought by a third party against
 the Indemnified Contributor to the extent caused by the acts or omissions
 of such Commercial Contributor in connection with its distribution of the
 Program in a commercial product offering. The obligations in this section
 do not apply to any claims or Losses relating to any actual or alleged
 intellectual property infringement. In order to qualify, an Indemnified
 Contributor must: a) promptly notify the Commercial Contributor in writing
 of such claim, and b) allow the Commercial Contributor to control, and
 cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may participate in any
 such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
 offering, Product X. That Contributor is then a Commercial Contributor.
 If that Commercial Contributor then makes performance claims, or offers
 warranties related to Product X, those performance claims and warranties
 are such Commercial Contributor's responsibility alone. Under this section,
 the Commercial Contributor would have to defend claims against the other
 Contributors related to those performance claims and warranties, and if a
 court requires any other Contributor to pay any damages as a result, the
 Commercial Contributor must pay those damages.

5. No Warranty
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
 PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED
 INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-
INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
 Recipient is solely responsible for determining the appropriateness of
 using and distributing the Program and assumes all risks associated with
 its exercise of rights under this Agreement, including but not limited to
 the risks and costs of program errors, compliance with applicable laws,
 damage to or loss of data, programs or equipment, and unavailability or
 interruption of operations.

6. Disclaimer of Liability
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT PERMITTED
 BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE
 ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS),
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
 GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. General
If any provision of this Agreement is invalid or unenforceable under
 applicable law, it shall not affect the validity or enforceability of the
 remainder of the terms of this Agreement, and without further action by
 the parties hereto, such provision shall be reformed to the minimum extent
 necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Program itself
```

```
 (excluding combinations of the Program with other software or hardware)
 infringes such Recipient's patent(s), then such Recipient's rights granted
 under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
 comply with any of the material terms or conditions of this Agreement and
 does not cure such failure in a reasonable period of time after becoming
 aware of such noncompliance. If all Recipient's rights under this Agreement
 terminate, Recipient agrees to cease use and distribution of the Program as
 soon as reasonably practicable. However, Recipient's obligations under this
 Agreement and any licenses granted by Recipient relating to the Program
 shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but
 in order to avoid inconsistency the Agreement is copyrighted and may only
 be modified in the following manner. The Agreement Steward reserves the
 right to publish new versions (including revisions) of this Agreement from
 time to time. No one other than the Agreement Steward has the right to
 modify this Agreement. The Eclipse Foundation is the initial Agreement
 Steward. The Eclipse Foundation may assign the responsibility to serve as
 the Agreement Steward to a suitable separate entity. Each new version of
 the Agreement will be given a distinguishing version number. The Program
 (including Contributions) may always be Distributed subject to the version
 of the Agreement under which it was received. In addition, after a new
 version of the Agreement is published, Contributor may elect to Distribute
 the Program (including its Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
 receives no rights or licenses to the intellectual property of any
 Contributor under this Agreement, whether expressly, by implication,
 estoppel or otherwise. All rights in the Program not expressly granted
 under this Agreement are reserved. Nothing in this Agreement is intended
 to be enforceable by any entity that is not a Contributor or Recipient. No
 third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice
“This Source Code may also be made available under the following Secondary
 Licenses when the conditions for such availability set forth in the Eclipse
 Public License, v. 2.0 are satisfied: {name license(s), version(s), and
 exceptions or additional permissions here}.”

Simply including a copy of this Agreement, including this Exhibit A is not
 sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.
```

Provider: Uber Technologies / Component(s): zap 1.9.0

```
Copyright (c) 2016-2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

Provider: Unicode, Inc. / Component(s): ICU 65.1

```
COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright © 1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

---------------------

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software components included within ICU
libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE
```

```
Copyright (c) 1995-2016 International Business Machines Corporation and
 others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.

2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

 #     The Google Chrome software developed by Google is licensed under
 # the BSD license. Other software included in this distribution is
 # provided under other licenses, as set forth below.
 #
 #  The BSD License
 #  http://opensource.org/licenses/bsd-license.php
 #  Copyright (C) 2006-2008, Google Inc.
 #
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 # modification, are permitted provided that the following conditions are
 met:
 #
 #  Redistributions of source code must retain the above copyright notice,
 # this list of conditions and the following disclaimer.
 #  Redistributions in binary form must reproduce the above
 # copyright notice, this list of conditions and the following
 # disclaimer in the documentation and/or other materials provided with
 # the distribution.
 #  Neither the name of  Google Inc. nor the names of its
 # contributors may be used to endorse or promote products derived from
 # this software without specific prior written permission.
 #
 #
 #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 # CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
 # INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 # MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 # DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
```

```
# LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
# BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
# LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
# NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
# SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
#
#  The word list in cjdict.txt are generated by combining three word lists
# listed below with further processing for compound word breaking. The
# frequency is generated with an iterative training against Google web
# corpora.
#
#  * Libtabe (Chinese)
#    - https://sourceforge.net/project/?group_id=1519
#    - Its license terms and conditions are shown below.
#
#  * IPADIC (Japanese)
#    - http://chasen.aist-nara.ac.jp/chasen/distribution.html
#    - Its license terms and conditions are shown below.
#
#  ---------COPYING.libtabe ---- BEGIN--------------------
#
#  /*
#   * Copyright (c) 1999 TaBE Project.
#   * Copyright (c) 1999 Pai-Hsiang Hsiao.
#   * All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the TaBE Project nor the names of its
#   *   contributors may be used to endorse or promote products derived
#   *   from this software without specific prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  /*
#   * Copyright (c) 1999 Computer Systems and Communication Lab,
#   *                    Institute of Information Science, Academia
#       *                   Sinica. All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
```

```
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the Computer Systems and Communication Lab
#   *   nor the names of its contributors may be used to endorse or
#   *   promote products derived from this software without specific
#   *   prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
#      University of Illinois
#  c-tsai4@uiuc.edu  http://casper.beckman.uiuc.edu/~c-tsai4
#
#  ---------------COPYING.libtabe-----END-------------------------------
#
#
#  ---------------COPYING.ipadic-----BEGIN------------------------------
#
#  Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
#  and Technology.  All Rights Reserved.
#
#  Use, reproduction, and distribution of this software is permitted.
#  Any copy of this software, whether in its original form or modified,
#  must include both the above copyright notice and the following
#  paragraphs.
#
#  Nara Institute of Science and Technology (NAIST),
#  the copyright holders, disclaims all warranties with regard to this
#  software, including all implied warranties of merchantability and
#  fitness, in no event shall NAIST be liable for
#  any special, indirect or consequential damages or any damages
#  whatsoever resulting from loss of use, data or profits, whether in an
#  action of contract, negligence or other tortuous action, arising out
#  of or in connection with the use or performance of this software.
#
#  A large portion of the dictionary entries
#  originate from ICOT Free Software.  The following conditions for ICOT
#  Free Software applies to the current dictionary as well.
#
#  Each User may also freely distribute the Program, whether in its
#  original form or modified, to any third party or parties, PROVIDED
#  that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
#  on, or be attached to, the Program, which is distributed substantially
#  in the same form as set out herein and that such intended
#  distribution, if actually made, will neither violate or otherwise
#  contravene any of the laws and regulations of the countries having
```

```
 #  jurisdiction over the User or the intended distribution itself.
 #
 #  NO WARRANTY
 #
 #  The program was produced on an experimental basis in the course of the
 #  research and development conducted during the project and is provided
 #  to users as so produced on an experimental basis.  Accordingly, the
 #  program is provided without any warranty whatsoever, whether express,
 #  implied, statutory or otherwise.  The term "warranty" used herein
 #  includes, but is not limited to, any warranty of the quality,
 #  performance, merchantability and fitness for a particular purpose of
 #  the program and the nonexistence of any infringement or violation of
 #  any right of any third party.
 #
 #  Each user of the program will agree and understand, and be deemed to
 #  have agreed and understood, that there is no warranty whatsoever for
 #  the program and, accordingly, the entire risk arising from or
 #  otherwise connected with the program is assumed by the user.
 #
 #  Therefore, neither ICOT, the copyright holder, or any other
 #  organization that participated in or was otherwise related to the
 #  development of the program and their respective officials, directors,
 #  officers and other employees shall be held liable for any and all
 #  damages, including, without limitation, general, special, incidental
 #  and consequential damages, arising out of or otherwise in connection
 #  with the use or inability to use the program or any product, material
 #  or result produced or otherwise obtained by using the program,
 #  regardless of whether they have been advised of, or otherwise had
 #  knowledge of, the possibility of such damages at any time during the
 #  project or thereafter.  Each user will be deemed to have agreed to the
 #  foregoing by his or her commencement of use of the program.  The term
 #  "use" as used herein includes, but is not limited to, the use,
 #  modification, copying and distribution of the program and the
 #  production of secondary products from the program.
 #
 #  In the case where the program, whether in its original form or
 #  modified, was distributed or delivered to or received by a user from
 #  any person, organization or entity other than ICOT, unless it makes or
 #  grants independently of ICOT any specific warranty to the user in
 #  writing, such person, organization or entity, will also be exempted
 #  from and not be held liable to the user for any such damages as noted
 #  above as far as the program is concerned.
 #
 #  ---------------COPYING.ipadic-----END----------------------------------

3. Lao Word Break Dictionary Data (laodict.txt)

 #  Copyright (c) 2013 International Business Machines Corporation
 #  and others. All Rights Reserved.
 #
 # Project: http://code.google.com/p/lao-dictionary/
 # Dictionary: http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt
 # License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-
LICENSE.txt
 #              (copied below)
 #
 #  This file is derived from the above dictionary, with slight
 #  modifications.
 #  ----------------------------------------------------------------------
 #  Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 #  modification,
```

```
 #  are permitted provided that the following conditions are met:
 #
 #
 # Redistributions of source code must retain the above copyright notice,
 this
 #  list of conditions and the following disclaimer. Redistributions in
 #  binary form must reproduce the above copyright notice, this list of
 #  conditions and the following disclaimer in the documentation and/or
 #  other materials provided with the distribution.
 #
 #
 # THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 # "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 # LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
 # FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
 # COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 # INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 # (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 # SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 # HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 # STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 # ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
 # OF THE POSSIBILITY OF SUCH DAMAGE.
 #
 ---------------------------------------------------------------------------

4. Burmese Word Break Dictionary Data (burmesedict.txt)

 #  Copyright (c) 2014 International Business Machines Corporation
 #  and others. All Rights Reserved.
 #
 #  This list is part of a project hosted at:
 #    github.com/kanyawtech/myanmar-karen-word-lists
 #
 #
 ---------------------------------------------------------------------------
 #  Copyright (c) 2013, LeRoy Benjamin Sharon
 #  All rights reserved.
 #
 #  Redistribution and use in source and binary forms, with or without
 #  modification, are permitted provided that the following conditions
 #  are met: Redistributions of source code must retain the above
 #  copyright notice, this list of conditions and the following
 #  disclaimer.  Redistributions in binary form must reproduce the
 #  above copyright notice, this list of conditions and the following
 #  disclaimer in the documentation and/or other materials provided
 #  with the distribution.
 #
 #    Neither the name Myanmar Karen Word Lists, nor the names of its
 #    contributors may be used to endorse or promote products derived
 #    from this software without specific prior written permission.
 #
 #  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
 #  CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
 #  INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 #  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 #  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 #  BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 #  EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 #  TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 #  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
 #  ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 #  TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
 #  THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
```

```
 #  SUCH DAMAGE.
 #
 ---------------------------------------------------------------------------

5. Time Zone Database

  ICU uses the public domain data and code derived from Time Zone
Database for its time zone support. The ownership of the TZ database
is explained in BCP 175: Procedure for Maintaining the Time Zone
Database section 7.

 # 7.  Database Ownership
 #
 #    The TZ database itself is not an IETF Contribution or an IETF
 #    document.  Rather it is a pre-existing and regularly updated work
 #    that is in the public domain, and is intended to remain in the
 #    public domain.  Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
 #    not apply to the TZ Database or contributions that individuals make
 #    to it.  Should any claims be made and substantiated against the TZ
 #    Database, the organization that is providing the IANA
 #    Considerations defined in this RFC, under the memorandum of
 #    understanding with the IETF, currently ICANN, may act in accordance
 #    with all competent court orders.  No ownership claims will be made
 #    by ICANN or the IETF Trust on the database or the code.  Any person
 #    making a contribution to the database or code waives all rights to
 #    future claims in that contribution or in the TZ Database.

6. Google double-conversion

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Unicode, Inc. / Component(s): Unicode Data Files 13.0.0

```
************************************************************
********* Copied from LT Public License & Copyright Notices *********

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
```

```
See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.
NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.
COPYRIGHT AND PERMISSION NOTICE
Copyright © 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/
copyright.html.
Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.
THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.
Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.
=== http://www.unicode.org/copyright.html content ===
Unicode (R) Copyright and Terms of Use
For the general privacy policy governing access to this site, see the
 Unicode Privacy
Policy.
Unicode Copyright
Copyright (C) 1991-2020 Unicode, Inc. All rights reserved.
Definitions
Unicode Data Files ("DATA FILES") include all data files under the
 directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/
Unicode Data Files do not include PDF online code charts under the
 directory:
https://www.unicode.org/Public/
Unicode Software ("SOFTWARE") includes any source code published in the
 Unicode Standard
or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/
Terms of Use
Certain documents and files on this website contain a legend indicating
 that
```

```
"Modification is permitted." Any person is hereby authorized, without fee,
 to modify such
documents and files to create derivative works conforming to the Unicode®
 Standard,
subject to Terms and Conditions herein.
Any person is hereby authorized, without fee, to view, use, reproduce, and
 distribute all
documents and files, subject to the Terms and Conditions herein.
Further specifications of rights and restrictions pertaining to the use of
 the Unicode
DATA FILES and SOFTWARE can be found in the Unicode Data Files and Software
 License.
Each version of the Unicode Standard has further specifications of rights
 and
restrictions of use. For the book editions (Unicode 5.0 and earlier), these
 are found on
the back of the title page.
The Unicode PDF online code charts carry specific restrictions. Those
 restrictions are
incorporated as the first page of each PDF code chart.
All other files, including online documentation of the core specification
 for Unicode 6.0
and later, are covered under these general Terms of Use.
No license is granted to "mirror" the Unicode website where a fee is charged
 for access
to the "mirror" site.
Modification is not permitted with respect to this document. All copies of
 this document
must be verbatim.
Restricted Rights Legend
Any technical data or software which is licensed to the United States of
 America, its
agencies and/or instrumentalities under this Agreement is commercial
 technical data or
commercial computer software developed exclusively at private expense as
 defined in FAR
2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data,
 use,
duplication, or disclosure by the Government is subject to restrictions as
 set forth in
DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this
 Agreement.
For Software, in accordance with FAR 12-212 or DFARS 227-7202, as
 applicable, use,
duplication or disclosure by the Government is subject to the restrictions
 set forth in
this Agreement.
Warranties and Disclaimers
This publication and/or website may include technical or typographical
 errors or other
inaccuracies. Changes are periodically added to the information herein;
 these changes
will be incorporated in new editions of the publication and/or website.
 Unicode, Inc. may
make improvements and/or changes in the product(s) and/or program(s)
 described in this
publication and/or website at any time.
If this file has been purchased on magnetic or optical media from Unicode,
 Inc. the sole
and exclusive remedy for any claim will be exchange of the defective media
 within ninety
(90) days of original purchase.
EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS
 PROVIDED "AS IS"
```

```
WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY,
 INCLUDING, BUT NOT
LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
 PURPOSE, OR
NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY
 FOR ERRORS OR
OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE
 REFERENCED BY
OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.
Waiver of Damages
In no event shall Unicode, Inc. or its licensors be liable for any special,
 incidental,
indirect or consequential damages of any kind, or any damages whatsoever,
 whether or not
Unicode, Inc. was advised of the possibility of the damage, including,
 without
limitation, those resulting from the following: loss of use, data or
 profits, in
connection with the use, modification or distribution of this information or
 its
derivatives.
Trademarks & Logos
The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc.
 "The Unicode
Consortium" and "Unicode, Inc." are trade names of Unicode, Inc. Use of the
 information
and materials found on this website indicates your acknowledgement of
 Unicode, Inc.'s
exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and
 the Unicode
trade names.
The Unicode Consortium Name and Trademark Usage Policy ("Trademark Policy")
 are
incorporated herein by reference and you agree to abide by the provisions of
 the
Trademark Policy, which may be changed from time to time in the sole
 discretion of
Unicode, Inc.
All third party trademarks referenced herein are the property of their
 respective owners.
Miscellaneous
Jurisdiction and Venue. This website is operated from a location in the
 State of
California, United States of America. Unicode, Inc. makes no representation
 that the
materials are appropriate for use in other locations. If you access this
 website from
other locations, you are responsible for compliance with local laws. This
 Agreement, all
use of this website and any claims and damages resulting from use of this
 website are
governed solely by the laws of the State of California without regard to any
 principles
which would apply the laws of a different jurisdiction. The user agrees that
 any disputes
regarding this website shall be resolved solely in the courts located in
 Santa Clara
County, California. The user agrees said courts have personal jurisdiction
 and agree to
waive any right to transfer the dispute to any other forum.
Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify
 this Agreement
at any time by posting it to this website. The user may not assign any part
 of this
```

```
Agreement without Unicode, Inc.’s prior written consent.
Taxes. The user agrees to pay any taxes arising from access to this website
 or use of the
information herein, except for those based on Unicode’s net income.
Severability.  If any provision of this Agreement is declared invalid or
 unenforceable,
the remaining provisions of this Agreement shall remain in effect.
Entire Agreement. This Agreement constitutes the entire agreement between
 the parties.
```

Provider: University of Illinois Board of Trustees / Component(s): UDT (UDP-based Data Transfer) 4.11

```
Redistribution and use in source and binary forms, with or without
 modification, are permitted
provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions
and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions
and the following disclaimer in the documentation and/or other materials
 provided with the
distribution.

3. Neither the name of Copyright holder nor the names of its contributors
 may be used to endorse or
promote products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES,
 INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY   AND FITNESS FOR A
 PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL   THE AUTHOR BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL,
SPECIAL,   EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
 TO,   PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;   OR BUSINESS
 INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY,   WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR   OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
 SOFTWARE, EVEN IF   ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Unknown / Component(s): INI 1.66.1

```
gopkg.in/ini.v1
-------- Copyrights
Copyright 2014 Unknwon
Copyright 2017 Unknwon
Copyright 2019 Unknwon
Copyright 2016 Unknwon
Copyright 2015 Unknwon

-------- License
SPDX:Apache-2.0
```

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: c4f9163759e0d18590ef057795b21889
```

Provider: V8 Project / Component(s): double-conversion 1623566

```
https://github.com/google/double-conversion/blob/master/LICENSE

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
```

```
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: V8 Project / Component(s): double-conversion 3.1.5

```
https://github.com/google/double-conversion/blob/master/LICENSE

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following
      disclaimer in the documentation and/or other materials provided
      with the distribution.
    * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Various Open Source Licensors / Component(s): nanohttpd efb2ebf

```
Copyright (c) 2012-2013 by Paul S. Hawke, 2001,2005-2013 by Jarno Elonen,
 2010 by Konstantinos Togias
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the NanoHttpd organization nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.
```

Provider: Various Open Source Licensors / Component(s): STOMP.js 6.1.0

```
StompJS v. 6.1.0
License ==
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2018-2020 Deepak Kumar <deepak@kreatio.com>

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Copyright ==
```

Provider: Vlad Mihalcea / Component(s): Hybernate Types 52 2.12.0

```
hibernate-types-52:2.12.0
-------- Copyrights
   Copyright {2017-2020} {Mihalcea Vlad-Alexandru}

-------- License
SPDX:Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
```

```
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
```

```
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.


----------------------- Dependencies


Dependency : com.fasterxml.jackson.module:jackson-module-jaxb-
annotations:2.11.0
 Copyright: FasterXML,LLC

 License: Apache 2.0

 ------------- Notices -------------
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE
 file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).
```

```
## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.


------- Dependency - com.fasterxml.jackson.core:jackson-annotations

 Copyright: FasterXML,LLC

 License: Apache 2.0
This copy of Jackson JSON processor annotations is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

------- Dependency - com.fasterxml.jackson.core:jackson-core

 Copyright: FasterXML,LLC

 License: Apache 2.0
  ------- Dependency - com.fasterxml.jackson.core:jackson-databind

 Copyright: FasterXML,LLC

 License: Apache 2.0
This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0
```

Provider: Vladimir Bukhtoyarov / Component(s): bucket4j 1.1.0

```
Copyright 2015-2018 Vladimir Bukhtoyarov

                              Apache License
                          Version 2.0, January 2004
                       http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
```

```
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
```

```
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
```

```
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

Provider: vLLM Team / Component(s): vLLM 0.6.0

```
===================================Third Party
 Info===================================
vllm
Apache 2.0
Copyright (c) 2023, The vLLM team.
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
```

```
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
```

```
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

===================================Fourth Party
 Info===================================
aiohttp
Apache 2.0
Copyright aio-libs contributors.

----------------------------------------------
aiosignal
Apache 2.0
```

```
Copyright 2013-2019 Nikolay Kim and Andrew Svetlov

----------------------------------------------
annotated-types
MIT License
The MIT License (MIT)

Copyright (c) 2022 the contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
anyio
MIT License
The MIT License (MIT)

Copyright (c) 2018 Alex Grönholm

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
```

```
async-timeout
Apache 2.0
Copyright 2016-2020 aio-libs collaboration.

----------------------------------------------
attrs
MIT License
The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the attrs contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
certifi
Mozilla Public License 2.0 (MPL 2.0)
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

----------------------------------------------
charset-normalizer
MIT License
MIT License
```

```
Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
-----------------------------------------------
click
BSD License
Copyright 2014 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------
cloudpickle
BSD License
This module was extracted from the `cloud` package, developed by
PiCloud, Inc.

Copyright (c) 2015, Cloudpickle contributors.
Copyright (c) 2012, Regents of the University of California.
```

```
Copyright (c) 2009 PiCloud, Inc. http://www.picloud.com.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the University of California, Berkeley nor the
      names of its contributors may be used to endorse or promote
      products derived from this software without specific prior written
      permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
cmake
Apache 2.0
Copyright 2000-2024 Kitware, Inc. and Contributors

----------------------------------------------
datasets
Apache Software License

----------------------------------------------
dill
BSD License
Copyright (c) 2004-2016 California Institute of Technology.
Copyright (c) 2016-2024 The Uncertainty Quantification Foundation.
All rights reserved.

This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    - Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------------------------------
diskcache
Apache 2.0
Copyright 2016-2022 Grant Jenks

----------------------------------------------
distro
Apache Software License

----------------------------------------------
dnspython
ISC License (ISCL)
ISC License

Copyright (C) Dnspython Contributors

Permission to use, copy, modify, and/or distribute this software for
any purpose with or without fee is hereby granted, provided that the
above copyright notice and this permission notice appear in all
copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE
AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.



Copyright (C) 2001-2017 Nominum, Inc.
Copyright (C) Google Inc.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose with or without fee is hereby granted,
provided that the above copyright notice and this permission notice
appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINUM DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NOMINUM BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------
email_validator
The Unlicense (Unlicense)
This is free and unencumbered software released into the public
```

```
domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a
compiled binary, for any purpose, commercial or non-commercial,
and by any means.

In jurisdictions that recognize copyright laws, the author or
authors of this software dedicate any and all copyright
interest in the software to the public domain. We make this
dedication for the benefit of the public at large and to the
detriment of our heirs and successors. We intend this
dedication to be an overt act of relinquishment in perpetuity
of all present and future rights to this software under
copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR
ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

For more information, please refer to <https://unlicense.org/>

----------------------------------------------
exceptiongroup
MIT License
The MIT License (MIT)

Copyright (c) 2022 Alex Grönholm

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


This project contains code copied from the Python standard library.
The following is the required license notice for those parts.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
```

```
---------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

-----------------------------------------------
fastapi
MIT License
The MIT License (MIT)

Copyright (c) 2018 Sebastián Ramírez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
```

```
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
fastapi-cli
MIT License
The MIT License (MIT)

Copyright (c) 2024 Sebastián Ramírez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
filelock
The Unlicense (Unlicense)
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
```

```
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

----------------------------------------------
frozenlist
Apache 2.0
Copyright 2013-2019 Nikolay Kim and Andrew Svetlov

----------------------------------------------
fsspec
BSD License
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
h11
MIT License
The MIT License (MIT)

Copyright (c) 2016 Nathaniel J. Smith <njs@pobox.com> and other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
```

```
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
httpcore
BSD License
Copyright © 2020, [Encode OSS Ltd](https://www.encode.io/).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
httpx
BSD License
Copyright © 2019, [Encode OSS Ltd](https://www.encode.io/).
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
```

```
* Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
huggingface-hub
Apache Software License

----------------------------------------------
idna
BSD License
BSD 3-Clause License

Copyright (c) 2013-2024, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----------------------------------------------
interegular
MIT License
MIT License

Copyright (c) 2019 @MegaIng and @qntm

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
jinja2
BSD License
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
jsonschema
MIT License
Copyright (c) 2013 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
jsonschema-specifications
MIT License
Copyright (c) 2022 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
lark
MIT License
Copyright © 2017 Erez Shinan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
```

```
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
llvmlite
BSD
Copyright (c) 2014-, Continuum Analytics, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
lm-format-enforcer
MIT License
MIT License

Copyright (c) 2023 Noam Gat

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
markdown-it-py
MIT License
MIT License
```

```
Copyright (c) 2020 ExecutableBookProject

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
markupsafe
BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
mdurl
MIT License
Copyright (c) 2015 Vitaly Puzrin, Alex Kocharin.
Copyright (c) 2021 Taneli Hukkinen

Permission is hereby granted, free of charge, to any person
```

```
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

.parse() is based on Joyent's node.js `url` code:

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

-----------------------------------------------
mpmath
BSD License
Copyright (c) 2005-2021 Fredrik Johansson and mpmath contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

---------------------------------------------
msgpack
Apache 2.0
Copyright (C) 2008-2011 INADA Naoki <songofacandy@gmail.com>

---------------------------------------------
multidict
Apache 2.0
Copyright 2016 Andrew Svetlov and aio-libs contributors

---------------------------------------------
multiprocess
BSD License
Copyright (c) 2006-2008, R Oudkerk

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of author nor the names of any contributors may be
   used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

---------------------------------------------
nest-asyncio
BSD License
BSD 2-Clause License

Copyright (c) 2018-2020, Ewald de Wit
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
networkx
BSD License
NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2024, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
```

```
ninja
Apache Software License

---------------------------------------------
numba
BSD License
Copyright (c) 2012, Anaconda, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---------------------------------------------
numpy
BSD License
Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
----

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt


Note that the following files are vendored in the repository and sdist but
 not
installed in built numpy packages:

Name: Meson
Files: vendored-meson/meson/*
License: Apache 2.0
  For license text, see vendored-meson/meson/COPYING

Name: spin
Files: .spin/cmds.py
License: BSD-3
  For license text, see .spin/LICENSE

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: numpy.libs/libopenblas*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
```

```
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: numpy.libs/libopenblas*.so
Description: bundled in OpenBLAS
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause-Attribution
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.
```

```
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: GCC runtime library
Files: numpy.libs/libgfortran*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran
License: GPL-3.0-with-GCC-exception
  Copyright (C) 2002-2017 Free Software Foundation, Inc.

  Libgfortran is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 3, or (at your option)
  any later version.

  Libgfortran is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  Under Section 7 of GPL version 3, you are granted additional
  permissions described in the GCC Runtime Library Exception, version
  3.1, as published by the Free Software Foundation.

  You should have received a copy of the GNU General Public License and
  a copy of the GCC Runtime Library Exception along with this program;
  see the files COPYING3 and COPYING.RUNTIME respectively.  If not, see
  <http://www.gnu.org/licenses/>.

----

Full text of license texts referred to above follows (that they are
listed below does not necessarily imply the conditions apply to the
present binary release):

----

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
```

```
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.

----

                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.
```

```
                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.
```

```
                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
```

```
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
```

```
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
```

```
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
```

been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is

```
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
```

```
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
```

```
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.
```

```
  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.
```

```
    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

Name: libquadmath
Files: numpy.libs/libquadmath*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
License: LGPL-2.1-or-later

    GCC Quad-Precision Math Library
    Copyright (C) 2010-2019 Free Software Foundation, Inc.
    Written by Francois-Xavier Coudert  <fxcoudert@gcc.gnu.org>

    This file is part of the libquadmath library.
    Libquadmath is free software; you can redistribute it and/or
    modify it under the terms of the GNU Library General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    Libquadmath is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.
    https://www.gnu.org/licenses/old-licenses/lgpl-2.1.html

----------------------------------------------
nvidia-cublas-cu12
Other/Proprietary License
UNKNOWN
----------------------------------------------
nvidia-cuda-cupti-cu12
Other/Proprietary License
UNKNOWN
----------------------------------------------
nvidia-cuda-nvrtc-cu12
Other/Proprietary License
UNKNOWN
```

```
----------------------------------------------
nvidia-cuda-runtime-cu12
Other/Proprietary License
UNKNOWN
----------------------------------------------
nvidia-cudnn-cu12
Other/Proprietary License
UNKNOWN
----------------------------------------------
nvidia-cufft-cu12
Other/Proprietary License
UNKNOWN
----------------------------------------------
nvidia-curand-cu12
Other/Proprietary License
UNKNOWN
----------------------------------------------
nvidia-cusolver-cu12
Other/Proprietary License
UNKNOWN
----------------------------------------------
nvidia-cusparse-cu12
Other/Proprietary License
UNKNOWN
----------------------------------------------
nvidia-ml-py
BSD License
Copyright (c) 2011-2015, NVIDIA Corporation.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
    * Neither the name of the NVIDIA Corporation nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
nvidia-nccl-cu12
Other/Proprietary License
UNKNOWN
----------------------------------------------
nvidia-nvjitlink-cu12
Other/Proprietary License
UNKNOWN
```

```
----------------------------------------------
nvidia-nvtx-cu12
Other/Proprietary License
UNKNOWN
----------------------------------------------
openai
Apache Software License
Copyright 2024 OpenAI

----------------------------------------------
outlines
Apache 2.0
Copyright 2023- The Outlines developers

----------------------------------------------
packaging
Apache Software License; BSD License
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
pandas
BSD License
BSD 3-Clause License

Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2023, Open source contributors.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------
pillow
Historical Permission Notice and Disclaimer (HPND)
The Python Imaging Library (PIL) is

    Copyright © 1997-2011 by Secret Labs AB
    Copyright © 1995-2011 by Fredrik Lundh and contributors

Pillow is the friendly PIL fork. It is

    Copyright © 2010-2024 by Jeffrey A. Clark and contributors

Like PIL, Pillow is licensed under the open source HPND License:

By obtaining, using, and/or copying this software and/or its associated
documentation, you agree that you have read, understood, and will comply
with the following terms and conditions:

Permission to use, copy, modify and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appears in all copies, and that
both that copyright notice and this permission notice appear in supporting
documentation, and that the name of Secret Labs AB or the author not be
used in advertising or publicity pertaining to distribution of the software
without specific, written prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.
IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.


----
```

```
BROTLI

Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


----

BZIP2


--------------------------------------------------------------------------

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2019 Julian R Seward.  All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software.  If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
```

```
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

--------------------------------------------------------------------------


----

FREETYPE2

The FreeType  2 font  engine is  copyrighted work  and cannot  be used
legally without  a software  license.  In order  to make  this project
usable to  a vast majority of  developers, we distribute it  under two
mutually exclusive open-source licenses.

This means that *you* must choose  *one* of the two licenses described
below, then obey all its terms and conditions when using FreeType 2 in
any of your projects or products.

  - The FreeType License,  found in the file  `docs/FTL.TXT`, which is
    similar to the  original BSD license *with*  an advertising clause
    that forces  you to explicitly  cite the FreeType project  in your
    product's  documentation.  All  details are  in the  license file.
    This license is suited to products which don't use the GNU General
    Public License.

    Note that  this license  is compatible to  the GNU  General Public
    License version 3, but not version 2.

  - The   GNU   General   Public   License   version   2,   found   in
    `docs/GPLv2.TXT`  (any  later  version  can  be  used  also),  for
    programs  which  already  use  the  GPL.  Note  that  the  FTL  is
    incompatible with GPLv2 due to its advertisement clause.

The contributed  BDF and PCF  drivers come  with a license  similar to
that  of the  X Window  System.  It is  compatible to  the above  two
licenses (see files `src/bdf/README`  and `src/pcf/README`).  The same
holds   for   the   source   code   files   `src/base/fthash.c`   and
`include/freetype/internal/fthash.h`; they were part of the BDF driver
in earlier FreeType versions.

The gzip  module uses the  zlib license (see  `src/gzip/zlib.h`) which
too is compatible to the above two licenses.

The files `src/autofit/ft-hb.c` and `src/autofit/ft-hb.h` contain code
taken almost  verbatim from the  HarfBuzz file `hb-ft.cc`,  which uses
the 'Old MIT' license, compatible to the above two licenses.

The  MD5 checksum  support  (only used  for  debugging in  development
builds) is in the public domain.

--------------------------------------------------------------------------

                    The FreeType Project LICENSE
                    ----------------------------

                            2006-Jan-27

                    Copyright 1996-2002, 2006 by
          David Turner, Robert Wilhelm, and Werner Lemberg
```

```
Introduction
============

  The FreeType  Project is distributed in  several archive packages;
  some of them may contain, in addition to the FreeType font engine,
  various tools and  contributions which rely on, or  relate to, the
  FreeType Project.

  This  license applies  to all  files found  in such  packages, and
  which do not  fall under their own explicit  license.  The license
  affects  thus  the  FreeType   font  engine,  the  test  programs,
  documentation and makefiles, at the very least.

  This  license   was  inspired  by  the  BSD,   Artistic,  and  IJG
  (Independent JPEG  Group) licenses, which  all encourage inclusion
  and  use of  free  software in  commercial  and freeware  products
  alike.  As a consequence, its main points are that:

    o We don't promise that this software works. However, we will be
      interested in any kind of bug reports. (`as is' distribution)

    o You can  use this software for whatever you  want, in parts or
      full form, without having to pay us. (`royalty-free' usage)

    o You may not pretend that  you wrote this software.  If you use
      it, or  only parts of it,  in a program,  you must acknowledge
      somewhere  in  your  documentation  that  you  have  used  the
      FreeType code. (`credits')

  We  specifically  permit  and  encourage  the  inclusion  of  this
  software, with  or without modifications,  in commercial products.
  We  disclaim  all warranties  covering  The  FreeType Project  and
  assume no liability related to The FreeType Project.


  Finally,  many  people  asked  us  for  a  preferred  form  for  a
  credit/disclaimer to use in compliance with this license.  We thus
  encourage you to use the following text:

   """
    Portions of this software are copyright © <year> The FreeType
    Project (www.freetype.org).  All rights reserved.
   """

  Please replace <year> with the value from the FreeType version you
  actually use.


Legal Terms
===========

0. Definitions
--------------

  Throughout this license,  the terms `package', `FreeType Project',
  and  `FreeType  archive' refer  to  the  set  of files  originally
  distributed  by the  authors  (David Turner,  Robert Wilhelm,  and
  Werner Lemberg) as the `FreeType Project', be they named as alpha,
  beta or final release.

  `You' refers to  the licensee, or person using  the project, where
  `using' is a generic term including compiling the project's source
```

```
  code as  well as linking it  to form a  `program' or `executable'.
  This  program is  referred to  as  `a program  using the  FreeType
  engine'.

  This  license applies  to all  files distributed  in  the original
  FreeType  Project,  including all  source  code, binaries  and
  documentation,  unless  otherwise  stated  in  the  file  in  its
  original, unmodified form as  distributed in the original archive.
  If you are  unsure whether or not a particular  file is covered by
  this license, you must contact us to verify this.

  The FreeType  Project is copyright (C) 1996-2000  by David Turner,
  Robert Wilhelm, and Werner Lemberg.  All rights reserved except as
  specified below.

1. No Warranty
--------------

  THE FREETYPE PROJECT  IS PROVIDED `AS IS' WITHOUT  WARRANTY OF ANY
  KIND, EITHER  EXPRESS OR IMPLIED,  INCLUDING, BUT NOT  LIMITED TO,
  WARRANTIES  OF  MERCHANTABILITY  AND  FITNESS  FOR  A  PARTICULAR
  PURPOSE.  IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS
  BE LIABLE  FOR ANY DAMAGES CAUSED  BY THE USE OR  THE INABILITY TO
  USE, OF THE FREETYPE PROJECT.

2. Redistribution
-----------------

  This  license  grants  a  worldwide, royalty-free,  perpetual  and
  irrevocable right  and license to use,  execute, perform, compile,
  display,  copy,  create  derivative  works  of,  distribute  and
  sublicense the  FreeType Project (in  both source and  object code
  forms)  and  derivative works  thereof  for  any  purpose; and  to
  authorize others  to exercise  some or all  of the  rights granted
  herein, subject to the following conditions:

    o Redistribution of  source code  must retain this  license file
      (`FTL.TXT') unaltered; any  additions, deletions or changes to
      the original  files must be clearly  indicated in accompanying
      documentation.  The  copyright  notices  of  the  unaltered,
      original  files must  be  preserved in  all  copies of  source
      files.

    o Redistribution in binary form must provide a  disclaimer  that
      states  that  the software is based in part of the work of the
      FreeType Team,  in  the  distribution  documentation.  We also
      encourage you to put an URL to the FreeType web page  in  your
      documentation, though this isn't mandatory.

  These conditions  apply to any  software derived from or  based on
  the FreeType Project,  not just the unmodified files.  If you use
  our work, you  must acknowledge us.  However, no  fee need be paid
  to us.

3. Advertising
--------------

  Neither the  FreeType authors and  contributors nor you  shall use
  the name of the  other for commercial, advertising, or promotional
  purposes without specific prior written permission.

  We suggest,  but do not require, that  you use one or  more of the
  following phrases to refer  to this software in your documentation
  or advertising  materials: `FreeType Project',  `FreeType Engine',
```

```
  `FreeType library', or `FreeType Distribution'.

  As  you have  not signed  this license,  you are  not  required to
  accept  it.   However,  as  the FreeType  Project  is  copyrighted
  material, only  this license, or  another one contracted  with the
  authors, grants you  the right to use, distribute,  and modify it.
  Therefore,  by  using,  distributing,  or modifying  the  FreeType
  Project, you indicate that you understand and accept all the terms
  of this license.

4. Contacts
-----------

  There are two mailing lists related to FreeType:

    o freetype@nongnu.org

      Discusses general use and applications of FreeType, as well as
      future and  wanted additions to the  library and distribution.
      If  you are looking  for support,  start in  this list  if you
      haven't found anything to help you in the documentation.

    o freetype-devel@nongnu.org

      Discusses bugs,  as well  as engine internals,  design issues,
      specific licenses, porting, etc.

  Our home page can be found at

    https://www.freetype.org


--- end of FTL.TXT ---

---------------------------------------------------------------------------

            GNU GENERAL PUBLIC LICENSE
               Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.
     51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.)  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
```

```
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

            GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
```

```
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,

    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
```

```
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
```

```
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

              END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
```

```
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301
 USA


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year  name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.

------------------------------------------------------------------------------

The following license details are part of `src/bdf/README`:

```
```
```

License
****

Copyright (C) 2001-2002 by Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*** Portions of the driver (that is, bdflib.c and bdf.h):

Copyright 2000 Computing Research Labs, New Mexico State University
Copyright 2001-2002, 2011 Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Credits
****

This driver is based on excellent Mark Leisher's bdf library. If you find something good in this driver you should probably thank him, not me.
```

The following license details are part of `src/pcf/README`:

```
License
****

Copyright (C) 2000 by Francesco Zappa Nardelli

```
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


Credits
*******

Keith Packard wrote the pcf driver found in XFree86.  His work is at
the same time the specification and the sample implementation of the
PCF format.  Undoubtedly, this driver is inspired from his work.
```

HARFBUZZ

HarfBuzz is licensed under the so-called "Old MIT" license. Details follow.
For parts of HarfBuzz that are licensed under different licenses see
individual
files names COPYING in subdirectories where applicable.

Copyright © 2010-2022 Google, Inc.
Copyright © 2015-2020 Ebrahim Byagowi
Copyright © 2019,2020 Facebook, Inc.
Copyright © 2012,2015 Mozilla Foundation
Copyright © 2011 Codethink Limited
Copyright © 2008,2010 Nokia Corporation and/or its subsidiary(-ies)
Copyright © 2009 Keith Stribley
Copyright © 2011 Martin Hosken and SIL International
Copyright © 2007 Chris Wilson
Copyright © 2005,2006,2020,2021,2022,2023 Behdad Esfahbod
Copyright © 2004,2007,2008,2009,2010,2013,2021,2022,2023 Red Hat, Inc.
Copyright © 1998-2005 David Turner and Werner Lemberg
Copyright © 2016 Igalia S.L.
Copyright © 2022 Matthias Clasen
Copyright © 2018,2021 Khaled Hosny
Copyright © 2018,2019,2020 Adobe, Inc
Copyright © 2013-2015 Alexei Podtelezhnikov

For full copyright notices consult the individual files in the package.

Permission is hereby granted, without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

```
IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.


----

LCMS2

Little CMS
Copyright (c) 1998-2020 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


----

LIBJPEG

1. We don't promise that this software works.  (But if you find any bugs,
   please let us know!)
2. You can use this software for whatever you want.  You don't have to pay
 us.
3. You may not pretend that you wrote this software.  If you use it in a
   program, you must acknowledge somewhere in your documentation that
   you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose.  This software is provided "AS IS", and
 you,
its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2020, Thomas G. Lane, Guido Vollbeding.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this
```

```
software (or portions thereof) for any purpose, without fee, subject to
 these
conditions:
(1) If any part of the source code for this software is distributed, then
 this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG
 code,
not just to the unmodified library.  If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company
 name
in advertising or publicity relating to this software or products derived
 from
it.  This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage the use of this software as the basis
 of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.


----

LIBLZMA

XZ Utils Licensing
==================

    Different licenses apply to different files in this package. Here
    is a rough summary of which licenses apply to which parts of this
    package (but check the individual files to be sure!):

      - liblzma is in the public domain.

      - xz, xzdec, and lzmadec command line tools are in the public
        domain unless GNU getopt_long had to be compiled and linked
        in from the lib directory. The getopt_long code is under
        GNU LGPLv2.1+.

      - The scripts to grep, diff, and view compressed files have been
        adapted from gzip. These scripts and their documentation are
        under GNU GPLv2+.

      - All the documentation in the doc directory and most of the
        XZ Utils specific documentation files in other directories
        are in the public domain.

      - Translated messages are in the public domain.

      - The build system contains public domain files, and files that
        are under GNU GPLv2+ or GNU GPLv3+. None of these files end up
        in the binaries being built.
```

```
      - Test files and test code in the tests directory, and debugging
        utilities in the debug directory are in the public domain.

      - The extra directory may contain public domain files, and files
        that are under various free software licenses.

    You can do whatever you want with the files that have been put into
    the public domain. If you find public domain legally problematic,
    take the previous sentence as a license grant. If you still find
    the lack of copyright legally problematic, you have too many
    lawyers.

    As usual, this software is provided "as is", without any warranty.

    If you copy significant amounts of public domain code from XZ Utils
    into your project, acknowledging this somewhere in your software is
    polite (especially if it is proprietary, non-free software), but
    naturally it is not legally required. Here is an example of a good
    notice to put into "about box" or into documentation:

        This software includes code from XZ Utils <http://tukaani.org/xz/>.

    The following license texts are included in the following files:
      - COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1
      - COPYING.GPLv2: GNU General Public License version 2
      - COPYING.GPLv3: GNU General Public License version 3

    Note that the toolchain (compiler, linker etc.) may add some code
    pieces that are copyrighted. Thus, it is possible that e.g. liblzma
    binary wouldn't actually be in the public domain in its entirety
    even though it contains no copyrighted code from the XZ Utils source
    package.

    If you have questions, don't hesitate to ask the author(s) for more
    information.


----

LIBPNG

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2
---------------------------------------

 * Copyright (c) 1995-2022 The PNG Reference Library Authors.
 * Copyright (c) 2018-2022 Cosmin Truta.
 * Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
 * Copyright (c) 1996-1997 Andreas Dilger.
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.
```

```
Permission is hereby granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

 1. The origin of this software must not be misrepresented; you
    must not claim that you wrote the original software.  If you
    use this software in a product, an acknowledgment in the product
    documentation would be appreciated, but is not required.

 2. Altered source versions must be plainly marked as such, and must
    not be misrepresented as being the original software.

 3. This Copyright notice may not be removed or altered from any
    source or altered source distribution.


PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
------------------------------------------------------------------------

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

    Simon-Pierre Cadieux
    Eric S. Raymond
    Mans Rullgard
    Cosmin Truta
    Gilles Vollant
    James Yu
    Mandar Sahastrabuddhe
    Google Inc.
    Vadim Barkov

and with the following additions to the disclaimer:

    There is no warranty against interference with your enjoyment of
    the library or against infringement.  There is no warranty that our
    efforts or the library will fulfill any of your particular purposes
    or needs.  This library is provided with all faults, and the entire
    risk of satisfactory quality, performance, accuracy, and effort is
    with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

    Tom Lane
    Glenn Randers-Pehrson
    Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:
```

```
    John Bowler
    Kevin Bracey
    Sam Bushell
    Magnus Holmgren
    Greg Roelofs
    Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

    Andreas Dilger
    Dave Martindale
    Guy Eric Schalnat
    Paul Schmidt
    Tim Wegner

The PNG Reference Library is supplied "AS IS".  The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose.  The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

 1. The origin of this source code must not be misrepresented.

 2. Altered versions must be plainly marked as such and must not
    be misrepresented as being the original source.

 3. This Copyright notice may not be removed or altered from any
    source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products.  If you use
this source code in a product, acknowledgment is not required but would
be appreciated.


----

LIBTIFF

Copyright (c) 1988-1997 Sam Leffler
Copyright (c) 1991-1997 Silicon Graphics, Inc.

Permission to use, copy, modify, distribute, and sell this software and
its documentation for any purpose is hereby granted without fee, provided
that (i) the above copyright notices and this permission notice appear in
all copies of the software and related documentation, and (ii) the names of
Sam Leffler and Silicon Graphics may not be used in any advertising or
publicity relating to the software without the specific, prior written
permission of Sam Leffler and Silicon Graphics.
```

```
THE SOFTWARE IS PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND,
EXPRESS, IMPLIED OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY
WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL SAM LEFFLER OR SILICON GRAPHICS BE LIABLE FOR
ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND,
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER OR NOT ADVISED OF THE POSSIBILITY OF DAMAGE, AND ON ANY THEORY OF
LIABILITY, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THIS SOFTWARE.


----

LIBWEBP

Copyright (c) 2010, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

  * Neither the name of Google nor the names of its contributors may
    be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----

OPENJPEG

*
 * The copyright in this software is being made available under the 2-
clauses
 * BSD License, included below. This software may be subject to other third
 * party and contributor rights, including patent rights, and no such rights
 * are granted under this license.
 *
 * Copyright (c) 2002-2014, Universite catholique de Louvain (UCL), Belgium
 * Copyright (c) 2002-2014, Professor Benoit Macq
 * Copyright (c) 2003-2014, Antonin Descampe
 * Copyright (c) 2003-2009, Francois-Olivier Devaux
 * Copyright (c) 2005, Herve Drolon, FreeImage Team
```

```
 * Copyright (c) 2002-2003, Yannick Verschueren
 * Copyright (c) 2001-2003, David Janssens
 * Copyright (c) 2011-2012, Centre National d'Etudes Spatiales (CNES),
 France
 * Copyright (c) 2012, CS Systemes d'Information, France
 *
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS `AS
 IS'
 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE
 * POSSIBILITY OF SUCH DAMAGE.
 */


----

RAQM

The MIT License (MIT)

Copyright © 2015 Information Technology Authority (ITA) <foss@ita.gov.om>
Copyright © 2016 Khaled Hosny <khaledhosny@eglug.org>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
----

XAU

Copyright 1988, 1993, 1994, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.


----

XCB

Copyright (C) 2001-2006 Bart Massey, Jamey Sharp, and Josh Triplett.
All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall
be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the names of the authors
or their institutions shall not be used in advertising or
otherwise to promote the sale, use or other dealings in this
Software without prior written authorization from the
authors.
```

```
----

XDMCP

Copyright 1989, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.

Author:  Keith Packard, MIT X Consortium


----

ZLIB

 (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not*
 receiving
lengthy legal documents to sign.  The sources are provided for free but
 without
warranty of any kind.  The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include
 in
```

```
the file ChangeLog history information documenting your changes.  Please
 read
the FAQ for more information on the distribution of modified source
 versions.

----------------------------------------------
prometheus-fastapi-instrumentator
ISC
ISC License

Copyright (c) 2022 Tim Schwenke <tim@trallnag.com>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------
prometheus_client
Apache 2.0
Copyright Prometheus Authors 2014-2024

----------------------------------------------
protobuf
3-Clause BSD License
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
```

```
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

----------------------------------------------
psutil
BSD License
BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
py-cpuinfo
MIT License
The MIT License (MIT)

Copyright (c) 2014-2022 Matthew Brennan Jones
 <matthew.brennan.jones@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:
```

```
The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
pyairports
Apache 2.0
Copyright (C) 2015-2016 Data61, Commonwealth Scientific and Industrial
 Research Organisation (CSIRO).

----------------------------------------------
pyarrow
Apache Software License

----------------------------------------------
pyarrow-hotfix
Apache License, Version 2.0

----------------------------------------------
pycountry
GNU Lesser General Public License v2 (LGPLv2)
   GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                            Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.
```

```
  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
```

```
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.
```

```
  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
```

```
  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
```

```
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
```

```
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.
```

```
Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                       END OF TERMS AND CONDITIONS

----------------------------------------------
pydantic
MIT License
The MIT License (MIT)

Copyright (c) 2017 to present Pydantic Services Inc. and individual
 contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

```
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
pydantic_core
MIT License
The MIT License (MIT)

Copyright (c) 2022 Samuel Colvin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
pygments
BSD License
Copyright (c) 2006-2022 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
```

```
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
python-dateutil
Apache Software License; BSD License
Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.
```

```
----------------------------------------------
python-multipart
Apache Software License

----------------------------------------------
pytz
MIT License
Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

----------------------------------------------
pyyaml
MIT License
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
pyzmq
BSD License
BSD 3-Clause License

Copyright (c) 2009-2012, Brian Granger, Min Ragan-Kelley
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
ray
Apache 2.0

----------------------------------------------
referencing
MIT License
Copyright (c) 2022 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
regex
Apache 2.0
```

```
Copyright 2020 Matthew Barnett

----------------------------------------------
requests
Apache 2.0
Copyright 2019 Kenneth Reitz

----------------------------------------------
rich
MIT License
Copyright (c) 2020 Will McGugan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
rpds-py
MIT License
Copyright (c) 2023 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
safetensors
Apache 2.0
Copyright 2018- The Hugging Face team. All rights reserved.
```

```
----------------------------------------------
sentencepiece
Apache Software License

----------------------------------------------
shellingham
ISC License (ISCL)
Copyright (c) 2018, Tzu-ping Chung <uranusjr@gmail.com>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------
six
MIT License
Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
sniffio
Apache Software License; MIT License
This software is made available under the terms of *either* of the
licenses found in LICENSE.APACHE2 or LICENSE.MIT. Contributions to are
made under the terms of *both* these licenses.
The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
```

```
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
starlette
BSD License
Copyright © 2018, [Encode OSS Ltd](https://www.encode.io/).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
sympy
BSD License
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
```

```
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:

Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:

Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/latex
```

```
are directly copied from latex2sympy project and are licensed as:

Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
tiktoken
MIT License

Copyright (c) 2022 OpenAI, Shantanu Jain

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

MIT License

Copyright (c) 2022 OpenAI, Shantanu Jain

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
tokenizers
Apache Software License

----------------------------------------------
torch
BSD License
From PyTorch:

Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
```

```
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


The Pytorch repository and source distributions bundle several libraries
 that are
compatibly licensed.  We list these here.

Name: DCGM
License: Apache-2.0
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/DCGM
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/DCGM/LICENSE

Name: FP16
License: MIT
Files: third_party/FP16
  For details, see the files concatenated below: third_party/FP16/LICENSE

Name: FXdiv
License: MIT
Files: third_party/FXdiv
  For details, see the files concatenated below: third_party/FXdiv/LICENSE

Name: NNPACK
```

```
License: BSD-2-Clause
Files: third_party/NNPACK
  For details, see the files concatenated below: third_party/NNPACK/LICENSE

Name: QNNPACK
License: BSD-3-Clause
Files: third_party/QNNPACK
  For details, see the files concatenated below: third_party/QNNPACK/LICENSE

Name: VulkanMemoryAllocator
License: MIT
Files: third_party/VulkanMemoryAllocator
  For details, see the files concatenated below: third_party/
VulkanMemoryAllocator/LICENSE.txt

Name: XNNPACK
License: BSD-3-Clause
Files: third_party/XNNPACK
  For details, see the files concatenated below: third_party/XNNPACK/LICENSE

Name: benchmark
License: Apache-2.0
Files: third_party/benchmark,
     third_party/onnx/third_party/benchmark,
     third_party/onnx-tensorrt/third_party/onnx/third_party/benchmark,
     third_party/protobuf/third_party/benchmark
  For details, see the files concatenated below: third_party/benchmark/
LICENSE,
     third_party/onnx/third_party/benchmark/LICENSE,
     third_party/onnx-tensorrt/third_party/onnx/third_party/benchmark/
LICENSE,
     third_party/protobuf/third_party/benchmark/LICENSE

Name: clog
License: BSD-2-Clause
Files: third_party/QNNPACK/deps/clog,
     third_party/cpuinfo/deps/clog,
     third_party/fbgemm/third_party/cpuinfo/deps/clog
  For details, see the files concatenated below: third_party/QNNPACK/deps/
clog/LICENSE,
     third_party/cpuinfo/deps/clog/LICENSE,
     third_party/fbgemm/third_party/cpuinfo/deps/clog/LICENSE

Name: colorama
License: BSD-3-Clause
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/DCGM/
testing/python3/libs_3rdparty/colorama
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/DCGM/testing/python3/
libs_3rdparty/colorama/LICENSE.txt

Name: cpplint
License: BSD-3-Clause
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/json/
third_party/cpplint,
     third_party/nlohmann/tools/cpplint
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/json/third_party/cpplint/LICENSE,
     third_party/nlohmann/tools/cpplint/LICENSE

Name: cpr
License: MIT
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/cpr
```

```
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/cpr/LICENSE

Name: cpuinfo
License: BSD-2-Clause
Files: third_party/cpuinfo,
     third_party/fbgemm/third_party/cpuinfo
  For details, see the files concatenated below: third_party/cpuinfo/
LICENSE,
     third_party/fbgemm/third_party/cpuinfo/LICENSE

Name: cudnn_frontend
License: MIT
Files: third_party/cudnn_frontend
  For details, see the files concatenated below: third_party/cudnn_frontend/
LICENSE.txt

Name: cutlass
License: BSD-3-Clause
Files: third_party/cutlass,
     third_party/fbgemm/third_party/cutlass
  For details, see the files concatenated below: third_party/cutlass/
LICENSE.txt,
     third_party/fbgemm/third_party/cutlass/LICENSE.txt

Name: dart
License: Apache-2.0
Files: third_party/flatbuffers/dart
  For details, see the files concatenated below: third_party/flatbuffers/
dart/LICENSE

Name: doctest
License: MIT
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/json/
test/thirdparty/doctest,
     third_party/nlohmann/tests/thirdparty/doctest
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/json/test/thirdparty/doctest/
LICENSE.txt,
     third_party/nlohmann/tests/thirdparty/doctest/LICENSE.txt

Name: dynolog
License: MIT
Files: third_party/kineto/libkineto/third_party/dynolog
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/LICENSE

Name: eigen
License: BSD-3-Clause
Files: third_party/eigen
  For details, see the files concatenated below: third_party/eigen/
COPYING.BSD

Name: fbgemm
License: BSD-3-Clause
Files: third_party/fbgemm
  For details, see the files concatenated below: third_party/fbgemm/LICENSE

Name: flatbuffers
License: Apache-2.0
Files: third_party/flatbuffers
  For details, see the files concatenated below: third_party/flatbuffers/
LICENSE
```

```
Name: fmt
License: MIT with exception
Files: third_party/fmt,
     third_party/kineto/libkineto/third_party/dynolog/third_party/fmt,
     third_party/kineto/libkineto/third_party/fmt
  For details, see the files concatenated below: third_party/fmt/LICENSE,
     third_party/kineto/libkineto/third_party/dynolog/third_party/fmt/
LICENSE.rst,
     third_party/kineto/libkineto/third_party/fmt/LICENSE.rst

Name: foxi
License: MIT
Files: third_party/foxi
  For details, see the files concatenated below: third_party/foxi/LICENSE

Name: gemmlowp
License: Apache-2.0
Files: third_party/gemmlowp/gemmlowp
  For details, see the files concatenated below: third_party/gemmlowp/
gemmlowp/LICENSE

Name: generator
License: Apache-2.0
Files: third_party/fbgemm/third_party/googletest/googlemock/scripts/
generator,
     third_party/googletest/googlemock/scripts/generator,
     third_party/kineto/libkineto/third_party/googletest/googlemock/scripts/
generator,
     third_party/protobuf/third_party/googletest/googlemock/scripts/
generator,
     third_party/tensorpipe/third_party/googletest/googlemock/scripts/
generator
  For details, see the files concatenated below: third_party/fbgemm/
third_party/googletest/googlemock/scripts/generator/LICENSE,
     third_party/googletest/googlemock/scripts/generator/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/googlemock/scripts/
generator/LICENSE,
     third_party/protobuf/third_party/googletest/googlemock/scripts/
generator/LICENSE,
     third_party/tensorpipe/third_party/googletest/googlemock/scripts/
generator/LICENSE

Name: gloo
License: BSD-3-Clause
Files: third_party/gloo
  For details, see the files concatenated below: third_party/gloo/LICENSE

Name: googlemock
License: BSD-3-Clause
Files: third_party/fbgemm/third_party/googletest/googlemock,
     third_party/kineto/libkineto/third_party/googletest/googlemock,
     third_party/protobuf/third_party/googletest/googlemock,
     third_party/tensorpipe/third_party/googletest/googlemock
  For details, see the files concatenated below: third_party/fbgemm/
third_party/googletest/googlemock/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/googlemock/LICENSE,
     third_party/protobuf/third_party/googletest/googlemock/LICENSE,
     third_party/tensorpipe/third_party/googletest/googlemock/LICENSE

Name: googletest
License: BSD-3-Clause
Files: third_party/fbgemm/third_party/googletest,
     third_party/fbgemm/third_party/googletest/googletest,
     third_party/googletest,
```

```
     third_party/kineto/libkineto/third_party/dynolog/third_party/
googletest,
     third_party/kineto/libkineto/third_party/googletest,
     third_party/kineto/libkineto/third_party/googletest/googletest,
     third_party/protobuf/third_party/googletest,
     third_party/protobuf/third_party/googletest/googletest,
     third_party/tensorpipe/third_party/googletest,
     third_party/tensorpipe/third_party/googletest/googletest
  For details, see the files concatenated below: third_party/fbgemm/
third_party/googletest/LICENSE,
     third_party/fbgemm/third_party/googletest/googletest/LICENSE,
     third_party/googletest/LICENSE,
     third_party/kineto/libkineto/third_party/dynolog/third_party/
googletest/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/googletest/LICENSE,
     third_party/protobuf/third_party/googletest/LICENSE,
     third_party/protobuf/third_party/googletest/googletest/LICENSE,
     third_party/tensorpipe/third_party/googletest/LICENSE,
     third_party/tensorpipe/third_party/googletest/googletest/LICENSE

Name: gtest
License: BSD-3-Clause
Files: third_party/ideep/mkl-dnn/tests/gtests/gtest
  For details, see the files concatenated below: third_party/ideep/mkl-dnn/
tests/gtests/gtest/LICENSE

Name: hipify_torch
License: MIT
Files: third_party/fbgemm/third_party/hipify_torch
  For details, see the files concatenated below: third_party/fbgemm/
third_party/hipify_torch/LICENSE.txt

Name: ideep
License: MIT
Files: third_party/ideep
  For details, see the files concatenated below: third_party/ideep/LICENSE

Name: ios-cmake
License: BSD-3-Clause
Files: third_party/ios-cmake
  For details, see the files concatenated below: third_party/ios-cmake/
LICENSE

Name: kineto
License: BSD-3-Clause
Files: third_party/kineto
  For details, see the files concatenated below: third_party/kineto/LICENSE

Name: libnop
License: Apache-2.0
Files: third_party/tensorpipe/third_party/libnop
  For details, see the files concatenated below: third_party/tensorpipe/
third_party/libnop/LICENSE

Name: libuv
License: MIT
Files: third_party/tensorpipe/third_party/libuv
  For details, see the files concatenated below: third_party/tensorpipe/
third_party/libuv/LICENSE

Name: mimalloc
License: MIT
Files: third_party/mimalloc
```

```
  For details, see the files concatenated below: third_party/mimalloc/
LICENSE

Name: miniz-2.1.0
License: MIT
Files: third_party/miniz-2.1.0
  For details, see the files concatenated below: third_party/miniz-2.1.0/
LICENSE

Name: mkl-dnn
License: Apache-2.0
Files: third_party/ideep/mkl-dnn
  For details, see the files concatenated below: third_party/ideep/mkl-dnn/
LICENSE

Name: nccl
License: BSD-3-Clause
Files: third_party/nccl/nccl
  For details, see the files concatenated below: third_party/nccl/nccl/
LICENSE.txt

Name: neon2sse
License: BSD-Source-Code
Files: third_party/neon2sse
  For details, see the files concatenated below: third_party/neon2sse/
LICENSE

Name: onnx
License: Apache-2.0
Files: third_party/onnx
  For details, see the files concatenated below: third_party/onnx/LICENSE

Name: onnx
License: MIT
Files: third_party/onnx-tensorrt/third_party/onnx
  For details, see the files concatenated below: third_party/onnx-tensorrt/
third_party/onnx/LICENSE

Name: onnx-tensorrt
License: MIT
Files: third_party/onnx-tensorrt
  For details, see the files concatenated below: third_party/onnx-tensorrt/
LICENSE

Name: pfs
License: Apache-2.0
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/pfs
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/pfs/LICENSE

Name: protobuf
License: BSD-3-Clause
Files: third_party/protobuf
  For details, see the files concatenated below: third_party/protobuf/
LICENSE

Name: psimd
License: MIT
Files: third_party/psimd
  For details, see the files concatenated below: third_party/psimd/LICENSE

Name: pthreadpool
License: BSD-2-Clause
Files: third_party/pthreadpool
```

```
  For details, see the files concatenated below: third_party/pthreadpool/
LICENSE

Name: pybind11
License: BSD-3-Clause
Files: third_party/onnx/third_party/pybind11,
     third_party/onnx-tensorrt/third_party/onnx/third_party/pybind11,
     third_party/pybind11,
     third_party/tensorpipe/third_party/pybind11
  For details, see the files concatenated below: third_party/onnx/
third_party/pybind11/LICENSE,
     third_party/onnx-tensorrt/third_party/onnx/third_party/pybind11/
LICENSE,
     third_party/pybind11/LICENSE,
     third_party/tensorpipe/third_party/pybind11/LICENSE

Name: python
License: BSD-3-Clause
Files: third_party/cutlass/python
  For details, see the files concatenated below: third_party/cutlass/python/
LICENSE.txt

Name: python-peachpy
License: BSD-2-Clause
Files: third_party/python-peachpy
  For details, see the files concatenated below: third_party/python-peachpy/
LICENSE.rst

Name: sleef
License: BSL-1.0
Files: third_party/sleef
  For details, see the files concatenated below: third_party/sleef/
LICENSE.txt

Name: swift
License: Apache-2.0
Files: third_party/flatbuffers/swift
  For details, see the files concatenated below: third_party/flatbuffers/
swift/LICENSE

Name: tb_plugin
License: BSD-3-Clause
Files: third_party/kineto/tb_plugin
  For details, see the files concatenated below: third_party/kineto/
tb_plugin/LICENSE

Name: tbb
License: Apache-2.0
Files: third_party/tbb
  For details, see the files concatenated below: third_party/tbb/LICENSE

Name: tensorpipe
License: BSD-3-Clause
Files: third_party/tensorpipe
  For details, see the files concatenated below: third_party/tensorpipe/
LICENSE.txt

Name: test
License: MIT with exception
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/cpr/test
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/cpr/test/LICENSE

Name: zstd
```

```
License: BSD-3-Clause
Files: third_party/zstd
  For details, see the files concatenated below: third_party/zstd/LICENSE

third_party/kineto/libkineto/third_party/dynolog/third_party/DCGM/LICENSE
---------------------------------------------------------------------------
Copyright (c) 2022, NVIDIA CORPORATION.  All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


third_party/FP16/LICENSE
------------------------
The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


third_party/FXdiv/LICENSE
-------------------------
The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2016-2017 Marat Dukhan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


third_party/NNPACK/LICENSE
--------------------------
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/QNNPACK/LICENSE
---------------------------
BSD License

For QNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
```

```
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/VulkanMemoryAllocator/LICENSE.txt
---------------------------------------------
Copyright (c) 2017-2022 Advanced Micro Devices, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


third_party/XNNPACK/LICENSE
---------------------------
BSD License

For XNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.
Copyright 2019 Google LLC

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
```

```
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/benchmark/LICENSE
-----------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
```

```
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
```

```
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
```

```
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/onnx/third_party/benchmark/LICENSE
----------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
```

```
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/onnx-tensorrt/third_party/onnx/third_party/benchmark/LICENSE
--------------------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/protobuf/third_party/benchmark/LICENSE
--------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
```

```
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
```

```
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/QNNPACK/deps/clog/LICENSE
-------------------------------------
Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/cpuinfo/deps/clog/LICENSE
-------------------------------------
Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
```

```
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/cpuinfo/deps/clog/LICENSE
--------------------------------------------------------
Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/kineto/libkineto/third_party/dynolog/third_party/DCGM/testing/
python3/libs_3rdparty/colorama/LICENSE.txt
----------------------------------------------------------------------------------------
Copyright (c) 2010 Jonathan Hartley <tartley@tartley.com>

Released under the New BSD license (reproduced below), or alternatively you
 may
use this software under any OSI approved open source license such as those
 at
http://opensource.org/licenses/alphabetical

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name(s) of the copyright holders, nor those of its
 contributors
  may be used to endorse or promote products derived from this software
 without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



third_party/kineto/libkineto/third_party/dynolog/third_party/json/
third_party/cpplint/LICENSE
----------------------------------------------------------------------------------------
cpplint.py and its corresponding unit tests are Copyright (C) 2009 Google
 Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
```

```
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/nlohmann/tools/cpplint/LICENSE
------------------------------------------
cpplint.py and its corresponding unit tests are Copyright (C) 2009 Google
 Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/dynolog/third_party/cpr/LICENSE
-------------------------------------------------------------------------
This license applies to everything except the contents of the "test"
directory and its subdirectories.

MIT License

Copyright (c) 2017-2021 Huu Nguyen
Copyright (c) 2022 libcpr and many other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

third_party/cpuinfo/LICENSE
---------------------------
Copyright (c) 2019 Google LLC
Copyright (c) 2017-2018 Facebook Inc.
Copyright (C) 2012-2017 Georgia Institute of Technology
Copyright (C) 2010-2012 Marat Dukhan

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/cpuinfo/LICENSE
----------------------------------------------
Copyright (c) 2019 Google LLC
Copyright (c) 2017-2018 Facebook Inc.
Copyright (C) 2012-2017 Georgia Institute of Technology
Copyright (C) 2010-2012 Marat Dukhan

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/cudnn_frontend/LICENSE.txt
--------------------------------------
/*
 * Copyright (c) 2020, NVIDIA CORPORATION. All rights reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 * copy of this software and associated documentation files (the
 "Software"),
 * to deal in the Software without restriction, including without limitation
 * the rights to use, copy, modify, merge, publish, distribute, sublicense,
 * and/or sell copies of the Software, and to permit persons to whom the
 * Software is furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 * THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 * DEALINGS IN THE SOFTWARE.
 */


third_party/cutlass/LICENSE.txt
-------------------------------
Copyright (c) 2017 - 2024 NVIDIA CORPORATION & AFFILIATES. All rights
 reserved.
SPDX-License-Identifier: BSD-3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/cutlass/LICENSE.txt
--------------------------------------------------
Copyright (c) 2017 - 2022 NVIDIA CORPORATION & AFFILIATES. All rights
 reserved.
SPDX-License-Identifier: BSD-3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/flatbuffers/dart/LICENSE
------------------------------------
                                 Apache License
                           Version 2.0, January 2004
```

```
                         http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.
```

```
   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.
```

```
   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2014 Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
```

```
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/kineto/libkineto/third_party/dynolog/third_party/json/test/
thirdparty/doctest/LICENSE.txt
-------------------------------------------------------------------------------------------
The MIT License (MIT)

Copyright (c) 2016-2021 Viktor Kirilov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/nlohmann/tests/thirdparty/doctest/LICENSE.txt
-------------------------------------------------------------
The MIT License (MIT)

Copyright (c) 2016-2021 Viktor Kirilov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/kineto/libkineto/third_party/dynolog/LICENSE
--------------------------------------------------------
MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/eigen/COPYING.BSD
-----------------------------
/*
 Copyright (c) 2011, Intel Corporation. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification,
 are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name of Intel Corporation nor the names of its contributors
 may
   be used to endorse or promote products derived from this software without
   specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
```

```
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
 ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/


third_party/fbgemm/LICENSE
--------------------------
BSD License

For FBGEMM software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/flatbuffers/LICENSE
-------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
```

```
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
```

```
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0
```

```
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/fmt/LICENSE
------------------------
Copyright (c) 2012 - present, Victor Zverovich and {fmt} contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


third_party/kineto/libkineto/third_party/dynolog/third_party/fmt/LICENSE.rst
----------------------------------------------------------------------------
Copyright (c) 2012 - present, Victor Zverovich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---
```

```
As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


third_party/kineto/libkineto/third_party/fmt/LICENSE.rst
--------------------------------------------------------
Copyright (c) 2012 - present, Victor Zverovich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


third_party/foxi/LICENSE
------------------------
MIT License

Copyright (c) 2019 Lu Fang

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/gemmlowp/gemmlowp/LICENSE
-------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/fbgemm/third_party/googletest/googlemock/scripts/generator/
LICENSE
-------------------------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).
```

```
      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
```

```
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
```

```
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [2007] Neal Norwitz
   Portions Copyright [2007] Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/googletest/googlemock/scripts/generator/LICENSE
------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.
```

```
      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
```

```
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
```

```
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [2007] Neal Norwitz
   Portions Copyright [2007] Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/kineto/libkineto/third_party/googletest/googlemock/scripts/
generator/LICENSE
-------------------------------------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/
```

```
   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
```

```
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [2007] Neal Norwitz
   Portions Copyright [2007] Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
```

```
       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/protobuf/third_party/googletest/googlemock/scripts/generator/
LICENSE
--------------------------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
```

```
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
```

```
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [2007] Neal Norwitz
   Portions Copyright [2007] Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/tensorpipe/third_party/googletest/googlemock/scripts/generator/
LICENSE
--------------------------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
```

```
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
```

```
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
```

```
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [2007] Neal Norwitz
   Portions Copyright [2007] Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/gloo/LICENSE
------------------------
BSD License

For Gloo software

Copyright (c) 2017-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
```

```
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/googletest/googlemock/LICENSE
------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/googletest/googlemock/LICENSE
----------------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/protobuf/third_party/googletest/googlemock/LICENSE
--------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/tensorpipe/third_party/googletest/googlemock/LICENSE
----------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/googletest/LICENSE
-------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/googletest/googletest/LICENSE
------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/googletest/LICENSE
------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/dynolog/third_party/googletest/
LICENSE
--------------------------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/googletest/LICENSE
-------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/googletest/googletest/LICENSE
----------------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/protobuf/third_party/googletest/LICENSE
---------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/protobuf/third_party/googletest/googletest/LICENSE
--------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/tensorpipe/third_party/googletest/LICENSE
-----------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/tensorpipe/third_party/googletest/googletest/LICENSE
----------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

```
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/ideep/mkl-dnn/tests/gtests/gtest/LICENSE
-----------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/hipify_torch/LICENSE.txt
-------------------------------------------------------
MIT License

Copyright (c) 2017 AMD Compute Libraries
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/ideep/LICENSE
-------------------------
Copyright (c) 2018 Intel Corporation.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


third_party/ios-cmake/LICENSE
-----------------------------
Copyright (c) 2011-2014, Andrew Fischer <andrew@ltengsoft.com>
Copyright (c) 2016, Bogdan Cristea <cristeab@gmail.com>
Copyright (c) 2017, Yangqing Jia <me@daggerfs.com>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
```

```
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
may be used to endorse or promote products derived from this software
 without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/LICENSE
--------------------------
BSD License

For Kineto software

Copyright (c) Meta Platforms, Inc. and affiliates.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Meta nor the names of its contributors may be used to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
```

```
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/tensorpipe/third_party/libnop/LICENSE
--------------------------------------------------
Copyright 2017 The Native Object Protocols Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


third_party/tensorpipe/third_party/libuv/LICENSE
--------------------------------------------------
libuv is licensed for use as follows:

====
Copyright (c) 2015-present libuv project contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
====

This license applies to parts of libuv originating from the
https://github.com/joyent/libuv repository:

====

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

====

This license applies to all parts of libuv that are not externally
maintained libraries.

The externally maintained libraries used by libuv are:

  - tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD license.

  - inet_pton and inet_ntop implementations, contained in src/inet.c, are
    copyright the Internet Systems Consortium, Inc., and licensed under the
 ISC
    license.

  - stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris. Three
    clause BSD license.

  - pthread-fixes.c, copyright Google Inc. and Sony Mobile Communications
 AB.
    Three clause BSD license.

  - android-ifaddrs.h, android-ifaddrs.c, copyright Berkeley Software Design
    Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant
 agreement
    n° 289016). Three clause BSD license.


third_party/mimalloc/LICENSE
----------------------------
MIT License

Copyright (c) 2018-2021 Microsoft Corporation, Daan Leijen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
third_party/miniz-2.1.0/LICENSE
-------------------------------
Copyright 2013-2014 RAD Game Tools and Valve Software
Copyright 2010-2014 Rich Geldreich and Tenacious Software LLC

All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


third_party/ideep/mkl-dnn/LICENSE
---------------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
```

```
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


 ==============================================================================

   Copyright 2016-2023 Intel Corporation
   Copyright 2018 YANDEX LLC
   Copyright 2019-2023 FUJITSU LIMITED
   Copyright 2020-2023 Arm Ltd. and affiliates
   Copyright 2020-2022 Codeplay Software Limited
   Copyright 2021 Alanna Tempest
   Copyright 2022-2023 IBM Corporation
   Copyright 2023 KNS Group LLC (YADRO)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   This distribution includes third party software ("third party programs").
   This third party software, even if included with the distribution of
   the Intel software, may be governed by separate license terms, including
   without limitation, third party license terms, other Intel software
 license
   terms, and open source software license terms. These separate license
 terms
   govern your use of the third party programs as set forth in the
   "THIRD-PARTY-PROGRAMS" file.


third_party/nccl/nccl/LICENSE.txt
---------------------------------

 Copyright (c) 2015-2020, NVIDIA CORPORATION. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
```

```
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  * Neither the name of NVIDIA CORPORATION, Lawrence Berkeley National
    Laboratory, the U.S. Department of Energy, nor the names of their
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 The U.S. Department of Energy funded the development of this software
 under subcontract 7078610 with Lawrence Berkeley National Laboratory.


This code also includes files from the NVIDIA Tools Extension SDK project.

See:

   https://github.com/NVIDIA/NVTX

for more information and license details.


third_party/neon2sse/LICENSE
----------------------------
created by Victoria Zhislina, the Senior Application Engineer, Intel
 Corporation,  victoria.zhislina@intel.com

*** Copyright (C) 2012-2016 Intel Corporation.  All rights reserved.

IMPORTANT: READ BEFORE DOWNLOADING, COPYING, INSTALLING OR USING.

By downloading, copying, installing or using the software you agree to this
 license.
If you do not agree to this license, do not download, install, copy or use
 the software.

                              License Agreement
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

 * The name of the copyright holders may not be used to endorse or promote
 products
   derived from this software without specific prior written permission.

This software is provided by the copyright holders and contributors "as is"
 and
any express or implied warranties, including, but not limited to, the
 implied
warranties of merchantability and fitness for a particular purpose are
 disclaimed.
```

```
In no event shall the Intel Corporation or contributors be liable for any
 direct,
indirect, incidental, special, exemplary, or consequential damages
(including, but not limited to, procurement of substitute goods or services;
loss of use, data, or profits; or business interruption) however caused
and on any theory of liability, whether in contract, strict liability,
or tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of such damage.


third_party/onnx/LICENSE
------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
```

```
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
```

```
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
```

```
   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/onnx-tensorrt/third_party/onnx/LICENSE
--------------------------------------------------
Open Neural Network Exchange

Copyright (c) Facebook, Inc. and Microsoft Corporation.
All rights reserved.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the ""Software""), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


third_party/onnx-tensorrt/LICENSE
---------------------------------
MIT License

Copyright (c) 2018, NVIDIA CORPORATION. All rights reserved.
Copyright (c) 2018 Open Neural Network Exchange

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
```

```
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/kineto/libkineto/third_party/dynolog/third_party/pfs/LICENSE
--------------------------------------------------------------------------
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2020-present Daniel Trugman

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/protobuf/LICENSE
----------------------------
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.


third_party/psimd/LICENSE
-------------------------
The MIT License (MIT)
```

```
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2014-2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


third_party/pthreadpool/LICENSE
-------------------------------
Copyright 2019 Google LLC
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017 Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



third_party/onnx/third_party/pybind11/LICENSE
---------------------------------------------
Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file .github/CONTRIBUTING.md, which clarifies
 licensing of
external contributions to this project including patches, pull requests,
 etc.


third_party/onnx-tensorrt/third_party/onnx/third_party/pybind11/LICENSE
----------------------------------------------------------------------------
Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
```

```
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

You are under no obligation whatsoever to provide any bug fixes, patches, or
upgrades to the features, functionality or performance of the source code
("Enhancements") to anyone; however, if you choose to make your Enhancements
available either publicly, or directly to the author of this software,
 without
imposing a separate written license agreement for such Enhancements, then
 you
hereby grant the following license: a non-exclusive, royalty-free perpetual
license to install, use, modify, prepare derivative works, incorporate into
other computer software, distribute, and sublicense such enhancements or
derivative works thereof, in binary and source code form.


third_party/pybind11/LICENSE
----------------------------
Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file .github/CONTRIBUTING.md, which clarifies
 licensing of
external contributions to this project including patches, pull requests,
 etc.


third_party/tensorpipe/third_party/pybind11/LICENSE
---------------------------------------------------
Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file CONTRIBUTING.md, which clarifies licensing of
external contributions to this project including patches, pull requests,
 etc.


third_party/cutlass/python/LICENSE.txt
--------------------------------------
Copyright (c) 2017 - 2024 NVIDIA CORPORATION & AFFILIATES. All rights
 reserved.
SPDX-License-Identifier: BSD-3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
```

```
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/python-peachpy/LICENSE.rst
---------------------------------------
==============================
PeachPy license (2-clause BSD)
==============================

Copyright (c) 2017, Facebook Inc.
Copyright (c) 2013-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


third_party/sleef/LICENSE.txt
-----------------------------
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
```

```
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


third_party/flatbuffers/swift/LICENSE
-------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/kineto/tb_plugin/LICENSE
------------------------------------
BSD License

For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
```

```
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/tbb/LICENSE
------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/tensorpipe/LICENSE.txt
----------------------------------
BSD License

For TensorPipe software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Meta nor the names of its contributors may be used to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/dynolog/third_party/cpr/test/
LICENSE
--------------------------------------------------------------------------
This license applies to everything inside this directory and all
```

```
subdirectories.

                    GNU GENERAL PUBLIC LICENSE
                      Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
```

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that

```
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
```

```
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
```

```
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
```

```
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
```

```
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.
```

```
  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
```

```
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
```

```
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
```

```
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.

third_party/zstd/LICENSE
------------------------
BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
torchvision
BSD
BSD 3-Clause License

Copyright (c) Soumith Chintala 2016,
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
tqdm
MIT License; Mozilla Public License 2.0 (MPL 2.0)
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:
```

```
* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-----------------------------------------------
transformers
Apache 2.0
Copyright 2018- The Hugging Face team. All rights reserved.

-----------------------------------------------
triton
BSD
Copyright (c) 2022, NVIDIA CORPORATION. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
```

```
 * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
 * Neither the name of NVIDIA CORPORATION nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----------------------------------------------
typer
MIT License
The MIT License (MIT)

Copyright (c) 2019 Sebastián Ramírez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
typing_extensions
Python Software Foundation License
A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
```

```
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
```

```
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
```

```
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
```

```
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```

```
ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
----------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------
tzdata
Apache 2.0
Copyright (c) 2020, Paul Ganssle (Google)

----------------------------------------------
urllib3
MIT License
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
uvicorn
BSD License
Copyright © 2017-present, [Encode OSS Ltd](https://www.encode.io/).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
```

```
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------------------------------
vllm-flash-attn
BSD License
BSD 3-Clause License

Copyright (c) 2022, the respective contributors, as shown by the AUTHORS
 file.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
xformers
BSD License
```

```
From xFormers:

Copyright (c) Facebook, Inc. and its affiliates


===

BSD 3-Clause License

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------
xxhash
BSD License
Copyright (c) 2014-2020, Yue Du
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
```

```
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
yarl
Apache Software License

----------------------------------------------

===================================Licenses===================================
Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
```

```
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
```

```
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.
```

```
   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-----------------------------------------------
```

Provider: vLLM Team / Component(s): vLLM 0.7.1

```
===================================Third Party
 Info===================================
vllm
Apache 2.0
Copyright (c) 2023, The vLLM team.
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
```

```
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
```

```
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
```

```
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

===================================Fourth Party
 Info===================================
aiohttp
Apache 2.0
Copyright aio-libs contributors.

----------------------------------------------

aiohappyeyeballs

A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
```

```
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
```

```
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
```

```
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
```

```
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
```

```
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
----------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.


_____________________________________________________
aiosignal
Apache 2.0
Copyright 2013-2019 Nikolay Kim and Andrew Svetlov

----------------------------------------------
annotated-types
MIT License
The MIT License (MIT)

Copyright (c) 2022 the contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
anyio
MIT License
The MIT License (MIT)
```

```
Copyright (c) 2018 Alex Grönholm

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
async-timeout
Apache 2.0
Copyright 2016-2020 aio-libs collaboration.

----------------------------------------------
attrs
MIT License
The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the attrs contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
certifi
```

```
Mozilla Public License 2.0 (MPL 2.0)
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $

----------------------------------------------
charset-normalizer
MIT License
MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
----------------------------------------------
click
BSD License
Copyright 2014 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
```

```
2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
cloudpickle
BSD License
This module was extracted from the `cloud` package, developed by
PiCloud, Inc.

Copyright (c) 2015, Cloudpickle contributors.
Copyright (c) 2012, Regents of the University of California.
Copyright (c) 2009 PiCloud, Inc. http://www.picloud.com.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
    * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of the University of California, Berkeley nor the
      names of its contributors may be used to endorse or promote
      products derived from this software without specific prior written
      permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
cmake
Apache 2.0
Copyright 2000-2024 Kitware, Inc. and Contributors

----------------------------------------------
datasets
```

```
Apache Software License

----------------------------------------------
dill
BSD License
Copyright (c) 2004-2016 California Institute of Technology.
Copyright (c) 2016-2024 The Uncertainty Quantification Foundation.
All rights reserved.

This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    - Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------------------------------
diskcache
Apache 2.0
Copyright 2016-2022 Grant Jenks

----------------------------------------------
distro
Apache Software License

----------------------------------------------
dnspython
ISC License (ISCL)
ISC License

Copyright (C) Dnspython Contributors

Permission to use, copy, modify, and/or distribute this software for
any purpose with or without fee is hereby granted, provided that the
above copyright notice and this permission notice appear in all
copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
```

```
WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE
AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.



Copyright (C) 2001-2017 Nominum, Inc.
Copyright (C) Google Inc.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose with or without fee is hereby granted,
provided that the above copyright notice and this permission notice
appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINUM DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NOMINUM BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

-----------------------------------------------
email_validator
The Unlicense (Unlicense)
This is free and unencumbered software released into the public
domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a
compiled binary, for any purpose, commercial or non-commercial,
and by any means.

In jurisdictions that recognize copyright laws, the author or
authors of this software dedicate any and all copyright
interest in the software to the public domain. We make this
dedication for the benefit of the public at large and to the
detriment of our heirs and successors. We intend this
dedication to be an overt act of relinquishment in perpetuity
of all present and future rights to this software under
copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR
ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

For more information, please refer to <https://unlicense.org/>

-----------------------------------------------
exceptiongroup
MIT License
The MIT License (MIT)

Copyright (c) 2022 Alex Grönholm
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


This project contains code copied from the Python standard library.
The following is the required license notice for those parts.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.
```

```
5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

----------------------------------------------
einops
MIT License

Copyright (c) 2018 Alex Rogozhnikov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
compressed-tensors

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.
```

```
      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
```

```
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
```

```
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

----------------------------------------------
fastapi
```

```
MIT License
The MIT License (MIT)

Copyright (c) 2018 Sebastián Ramírez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

------------------------------------------------
fastapi-cli
MIT License
The MIT License (MIT)

Copyright (c) 2024 Sebastián Ramírez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

------------------------------------------------
filelock
The Unlicense (Unlicense)
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
```

```
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

----------------------------------------------
frozenlist
Apache 2.0
Copyright 2013-2019 Nikolay Kim and Andrew Svetlov

----------------------------------------------
fsspec
BSD License
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
h11
MIT License
The MIT License (MIT)

Copyright (c) 2016 Nathaniel J. Smith <njs@pobox.com> and other contributors
```

```
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
httpcore
BSD License
Copyright © 2020, [Encode OSS Ltd](https://www.encode.io/).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
httpx
BSD License
Copyright © 2019, [Encode OSS Ltd](https://www.encode.io/).
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:
```

```
* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
huggingface-hub
Apache Software License

----------------------------------------------
idna
BSD License
BSD 3-Clause License

Copyright (c) 2013-2024, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----------------------------------------------
interegular
MIT License
```

```
MIT License

Copyright (c) 2019 @MegaIng and @qntm

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
jinja2
BSD License
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
jsonschema
MIT License
Copyright (c) 2013 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
jsonschema-specifications
MIT License
Copyright (c) 2022 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
lark
MIT License
Copyright © 2017 Erez Shinan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
llvmlite
BSD
Copyright (c) 2014-, Continuum Analytics, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
gguf
MIT License

Copyright (c) [year] [fullname]

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.

-----------------------------------------------
importlib_metadata
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
----------------------------------------------
zipp
MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

----------------------------------------------
lm-format-enforcer
MIT License
MIT License

Copyright (c) 2023 Noam Gat

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
```

```
SOFTWARE.

----------------------------------------------
mistral_common
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
```

```
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
```

```
      identification within third-party archives.

   Copyright 2024 Mistral AI

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-----------------------------------------------
msgspec
BSD 3-Clause "New" or "Revised" License

Copyright (c) 2021, Jim Crist-Harif
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------
markdown-it-py
MIT License
MIT License

Copyright (c) 2020 ExecutableBookProject

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
markupsafe
BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
mdurl
MIT License
Copyright (c) 2015 Vitaly Puzrin, Alex Kocharin.
Copyright (c) 2021 Taneli Hukkinen

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:
```

```
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

.parse() is based on Joyent's node.js `url` code:

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

----------------------------------------------
mpmath
BSD License
Copyright (c) 2005-2021 Fredrik Johansson and mpmath contributors

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
```

```
DAMAGE.

----------------------------------------------
msgpack
Apache 2.0
Copyright (C) 2008-2011 INADA Naoki <songofacandy@gmail.com>

----------------------------------------------
multidict
Apache 2.0
Copyright 2016 Andrew Svetlov and aio-libs contributors

----------------------------------------------
multiprocess
BSD License
Copyright (c) 2006-2008, R Oudkerk

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of author nor the names of any contributors may be
   used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

----------------------------------------------
nest-asyncio
BSD License
BSD 2-Clause License

Copyright (c) 2018-2020, Ewald de Wit
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
```

```
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
networkx
BSD License
NetworkX is distributed with the 3-clause BSD license.

::

   Copyright (C) 2004-2024, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
ninja
Apache Software License

----------------------------------------------
numba
BSD License
Copyright (c) 2012, Anaconda, Inc.
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
numpy
BSD License
Copyright (c) 2005-2023, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
```

```
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt


Note that the following files are vendored in the repository and sdist but
 not
installed in built numpy packages:

Name: Meson
Files: vendored-meson/meson/*
License: Apache 2.0
  For license text, see vendored-meson/meson/COPYING

Name: spin
Files: .spin/cmds.py
License: BSD-3
  For license text, see .spin/LICENSE

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: numpy.libs/libopenblas*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
```

```
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: numpy.libs/libopenblas*.so
Description: bundled in OpenBLAS
Availability: https://github.com/OpenMathLib/OpenBLAS/
License: BSD-3-Clause-Attribution
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.

  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

```
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: GCC runtime library
Files: numpy.libs/libgfortran*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran
License: GPL-3.0-with-GCC-exception
  Copyright (C) 2002-2017 Free Software Foundation, Inc.

  Libgfortran is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 3, or (at your option)
  any later version.

  Libgfortran is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  Under Section 7 of GPL version 3, you are granted additional
  permissions described in the GCC Runtime Library Exception, version
  3.1, as published by the Free Software Foundation.

  You should have received a copy of the GNU General Public License and
  a copy of the GCC Runtime Library Exception along with this program;
  see the files COPYING3 and COPYING.RUNTIME respectively.  If not, see
  <http://www.gnu.org/licenses/>.

----

Full text of license texts referred to above follows (that they are
listed below does not necessarily imply the conditions apply to the
present binary release):

----

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
```

```
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with
the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for
input to an assembler, loader, linker and/or execution
phase. Notwithstanding that, Target Code does not include data in any
format that is used as a compiler intermediate representation, or used
for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
non-intermediate languages designed for human-written code, and/or in
Java Virtual Machine byte code, into Target Code. Thus, for example,
use of source code generators and preprocessors need not be considered
part of the Compilation Process, since the Compilation Process can be
understood as starting with the output of the generators or
preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or
with other GPL-compatible software, or if it is done without using any
work based on GCC. For example, using non-GPL-compatible Software to
optimize any GCC intermediate representations would not qualify as an
Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by
combining the Runtime Library with Independent Modules, even if such
propagation would otherwise violate the terms of GPLv3, provided that
all Target Code was generated by Eligible Compilation Processes. You
may then convey such a combination under terms of your choice,
consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general
presumption that third-party software is unaffected by the copyleft
requirements of the license of GCC.

----

                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                            Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
```

```
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.
```

```
  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
```

```
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.
```

```
  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
```

```
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.
```

```
  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
```

```
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
```

rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying

```
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
```

```
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
```

```
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

Name: libquadmath
Files: numpy.libs/libquadmath*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
License: LGPL-2.1-or-later

    GCC Quad-Precision Math Library
    Copyright (C) 2010-2019 Free Software Foundation, Inc.
    Written by Francois-Xavier Coudert  <fxcoudert@gcc.gnu.org>

    This file is part of the libquadmath library.
    Libquadmath is free software; you can redistribute it and/or
    modify it under the terms of the GNU Library General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    Libquadmath is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.
    https://www.gnu.org/licenses/old-licenses/lgpl-2.1.html

----------------------------------------------
nvidia-ml-py
BSD License
Copyright (c) 2011-2015, NVIDIA Corporation.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
    * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
    * Neither the name of the NVIDIA Corporation nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
```

```
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
openai
Apache Software License
Copyright 2024 OpenAI

----------------------------------------------
outlines
Apache 2.0
Copyright 2023- The Outlines developers

----------------------------------------------
packaging
Apache Software License; BSD License
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
pandas
BSD License
BSD 3-Clause License
```

```
Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2023, Open source contributors.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
pillow
Historical Permission Notice and Disclaimer (HPND)
The Python Imaging Library (PIL) is

    Copyright © 1997-2011 by Secret Labs AB
    Copyright © 1995-2011 by Fredrik Lundh and contributors

Pillow is the friendly PIL fork. It is

    Copyright © 2010-2024 by Jeffrey A. Clark and contributors

Like PIL, Pillow is licensed under the open source HPND License:

By obtaining, using, and/or copying this software and/or its associated
documentation, you agree that you have read, understood, and will comply
with the following terms and conditions:

Permission to use, copy, modify and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appears in all copies, and that
both that copyright notice and this permission notice appear in supporting
documentation, and that the name of Secret Labs AB or the author not be
used in advertising or publicity pertaining to distribution of the software
without specific, written prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.
IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR ANY SPECIAL,
```

```
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.


----

BROTLI

Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


----

BZIP2


--------------------------------------------------------------------------

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2019 Julian R Seward.  All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software.  If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
```

```
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

--------------------------------------------------------------------------


----

FREETYPE2

The FreeType  2 font  engine is  copyrighted work  and cannot  be used
legally without  a software  license.  In order  to make  this project
usable to  a vast majority of  developers, we distribute it  under two
mutually exclusive open-source licenses.

This means that *you* must choose  *one* of the two licenses described
below, then obey all its terms and conditions when using FreeType 2 in
any of your projects or products.

  - The FreeType License,  found in the file  `docs/FTL.TXT`, which is
    similar to the  original BSD license *with*  an advertising clause
    that forces  you to explicitly  cite the FreeType project  in your
    product's  documentation.  All  details are  in the  license file.
    This license is suited to products which don't use the GNU General
    Public License.

    Note that  this license  is compatible to  the GNU  General Public
    License version 3, but not version 2.

  - The   GNU   General   Public   License   version   2,   found   in
    `docs/GPLv2.TXT`  (any  later  version  can  be  used  also),  for
    programs  which  already  use  the  GPL.  Note  that  the  FTL  is
    incompatible with GPLv2 due to its advertisement clause.

The contributed  BDF and PCF  drivers come  with a license  similar to
that  of the  X Window  System.  It is  compatible to  the above  two
licenses (see files `src/bdf/README`  and `src/pcf/README`).  The same
holds   for   the   source   code   files   `src/base/fthash.c`   and
`include/freetype/internal/fthash.h`; they were part of the BDF driver
in earlier FreeType versions.

The gzip  module uses the  zlib license (see  `src/gzip/zlib.h`) which
too is compatible to the above two licenses.

The files `src/autofit/ft-hb.c` and `src/autofit/ft-hb.h` contain code
taken almost  verbatim from the  HarfBuzz file `hb-ft.cc`,  which uses
the 'Old MIT' license, compatible to the above two licenses.

The  MD5 checksum  support  (only used  for  debugging in  development
builds) is in the public domain.

--------------------------------------------------------------------------
```

```
                    The FreeType Project LICENSE
                    ----------------------------

                            2006-Jan-27

                    Copyright 1996-2002, 2006 by
          David Turner, Robert Wilhelm, and Werner Lemberg



Introduction
============

  The FreeType  Project is distributed in  several archive packages;
  some of them may contain, in addition to the FreeType font engine,
  various tools and  contributions which rely on, or  relate to, the
  FreeType Project.

  This  license applies  to all  files found  in such  packages, and
  which do not  fall under their own explicit  license.  The license
  affects  thus  the  FreeType   font  engine,  the  test  programs,
  documentation and makefiles, at the very least.

  This  license   was  inspired  by  the  BSD,   Artistic,  and  IJG
  (Independent JPEG  Group) licenses, which  all encourage inclusion
  and  use of  free  software in  commercial  and freeware  products
  alike.  As a consequence, its main points are that:

    o We don't promise that this software works. However, we will be
      interested in any kind of bug reports. (`as is' distribution)

    o You can  use this software for whatever you  want, in parts or
      full form, without having to pay us. (`royalty-free' usage)

    o You may not pretend that  you wrote this software.  If you use
      it, or  only parts of it,  in a program,  you must acknowledge
      somewhere  in  your  documentation  that  you  have  used  the
      FreeType code. (`credits')

  We  specifically  permit  and  encourage  the  inclusion  of  this
  software, with  or without modifications,  in commercial products.
  We  disclaim  all warranties  covering  The  FreeType Project  and
  assume no liability related to The FreeType Project.


  Finally,  many  people  asked  us  for  a  preferred  form  for  a
  credit/disclaimer to use in compliance with this license.  We thus
  encourage you to use the following text:

   """
    Portions of this software are copyright © <year> The FreeType
    Project (www.freetype.org).  All rights reserved.
   """

  Please replace <year> with the value from the FreeType version you
  actually use.


Legal Terms
===========

0. Definitions
--------------
```

```
  Throughout this license,  the terms `package', `FreeType Project',
  and  `FreeType  archive' refer  to  the  set  of files  originally
  distributed  by the  authors  (David Turner,  Robert Wilhelm,  and
  Werner Lemberg) as the `FreeType Project', be they named as alpha,
  beta or final release.

  `You' refers to  the licensee, or person using  the project, where
  `using' is a generic term including compiling the project's source
  code as  well as linking it  to form a  `program' or `executable'.
  This  program is  referred to  as  `a program  using the  FreeType
  engine'.

  This  license applies  to all  files distributed  in  the original
  FreeType  Project,  including  all  source  code,  binaries  and
  documentation,  unless  otherwise  stated  in  the  file  in  its
  original, unmodified form as  distributed in the original archive.
  If you are  unsure whether or not a particular  file is covered by
  this license, you must contact us to verify this.

  The FreeType  Project is copyright (C) 1996-2000  by David Turner,
  Robert Wilhelm, and Werner Lemberg.  All rights reserved except as
  specified below.

1. No Warranty
--------------

  THE FREETYPE PROJECT  IS PROVIDED `AS IS' WITHOUT  WARRANTY OF ANY
  KIND, EITHER  EXPRESS OR IMPLIED,  INCLUDING, BUT NOT  LIMITED TO,
  WARRANTIES  OF  MERCHANTABILITY  AND  FITNESS  FOR  A  PARTICULAR
  PURPOSE.  IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS
  BE LIABLE  FOR ANY DAMAGES CAUSED  BY THE USE OR  THE INABILITY TO
  USE, OF THE FREETYPE PROJECT.

2. Redistribution
-----------------

  This  license  grants  a  worldwide, royalty-free,  perpetual  and
  irrevocable right  and license to use,  execute, perform, compile,
  display,  copy,  create  derivative  works  of,  distribute  and
  sublicense the  FreeType Project (in  both source and  object code
  forms)  and  derivative works  thereof  for  any  purpose; and  to
  authorize others  to exercise  some or all  of the  rights granted
  herein, subject to the following conditions:

    o Redistribution of  source code  must retain this  license file
      (`FTL.TXT') unaltered; any  additions, deletions or changes to
      the original  files must be clearly  indicated in accompanying
      documentation.  The  copyright  notices  of  the  unaltered,
      original  files must  be  preserved in  all  copies of  source
      files.

    o Redistribution in binary form must provide a  disclaimer  that
      states  that  the software is based in part of the work of the
      FreeType Team,  in  the  distribution  documentation.  We also
      encourage you to put an URL to the FreeType web page  in  your
      documentation, though this isn't mandatory.

  These conditions  apply to any  software derived from or  based on
  the FreeType Project,  not just the unmodified files.  If you use
  our work, you  must acknowledge us.  However, no  fee need be paid
  to us.

3. Advertising
--------------
```

```
  Neither the  FreeType authors and  contributors nor you  shall use
  the name of the  other for commercial, advertising, or promotional
  purposes without specific prior written permission.

  We suggest,  but do not require, that  you use one or  more of the
  following phrases to refer  to this software in your documentation
  or advertising  materials: `FreeType Project',  `FreeType Engine',
  `FreeType library', or `FreeType Distribution'.

  As  you have  not signed  this license,  you are  not  required to
  accept  it.   However,  as  the FreeType  Project  is  copyrighted
  material, only  this license, or  another one contracted  with the
  authors, grants you  the right to use, distribute,  and modify it.
  Therefore,  by  using,  distributing,  or modifying  the  FreeType
  Project, you indicate that you understand and accept all the terms
  of this license.

4. Contacts
-----------

  There are two mailing lists related to FreeType:

    o freetype@nongnu.org

      Discusses general use and applications of FreeType, as well as
      future and  wanted additions to the  library and distribution.
      If  you are looking  for support,  start in  this list  if you
      haven't found anything to help you in the documentation.

    o freetype-devel@nongnu.org

      Discusses bugs,  as well  as engine internals,  design issues,
      specific licenses, porting, etc.

  Our home page can be found at

    https://www.freetype.org


--- end of FTL.TXT ---

------------------------------------------------------------------------------

            GNU GENERAL PUBLIC LICENSE
               Version 2, June 1991

 Copyright (C) 1989, 1991 Free Software Foundation, Inc.
     51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.)  You can apply it to
your programs, too.
```

```
  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

            GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

  1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
```

```
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

  2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

    b) You must cause any work that you distribute or publish, that in
    whole or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

    c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License.  (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

    a) Accompany it with the complete corresponding machine-readable
    source code, which must be distributed under the terms of Sections
    1 and 2 above on a medium customarily used for software interchange; or,

    b) Accompany it with a written offer, valid for at least three
    years, to give any third party, for a charge no more than your
    cost of physically performing source distribution, a complete
    machine-readable copy of the corresponding source code, to be
    distributed under the terms of Sections 1 and 2 above on a medium
    customarily used for software interchange; or,
```

```
    c) Accompany it with the information you received as to the offer
    to distribute corresponding source code.  (This alternative is
    allowed only for noncommercial distribution and only if you
    received the program in object code or executable form with such
    an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
```

```
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
```

```
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

             END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301
 USA


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year  name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
```

library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

The following license details are part of `src/bdf/README`:

```
License
*******

Copyright (C) 2001-2002 by Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*** Portions of the driver (that is, bdflib.c and bdf.h):

Copyright 2000 Computing Research Labs, New Mexico State University
Copyright 2001-2002, 2011 Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.


Credits
*******

This driver is based on excellent Mark Leisher's bdf library.  If you
find something good in this driver you should probably thank him, not
me.
```

```
The following license details are part of `src/pcf/README`:

```
License
*******

Copyright (C) 2000 by Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


Credits
*******

Keith Packard wrote the pcf driver found in XFree86.  His work is at
the same time the specification and the sample implementation of the
PCF format.  Undoubtedly, this driver is inspired from his work.
```

HARFBUZZ

HarfBuzz is licensed under the so-called "Old MIT" license. Details follow.
For parts of HarfBuzz that are licensed under different licenses see
 individual
files names COPYING in subdirectories where applicable.

Copyright © 2010-2022 Google, Inc.
Copyright © 2015-2020 Ebrahim Byagowi
Copyright © 2019,2020 Facebook, Inc.
Copyright © 2012,2015 Mozilla Foundation
Copyright © 2011 Codethink Limited
Copyright © 2008,2010 Nokia Corporation and/or its subsidiary(-ies)
Copyright © 2009 Keith Stribley
Copyright © 2011 Martin Hosken and SIL International
Copyright © 2007 Chris Wilson
Copyright © 2005,2006,2020,2021,2022,2023 Behdad Esfahbod
Copyright © 2004,2007,2008,2009,2010,2013,2021,2022,2023 Red Hat, Inc.
Copyright © 1998-2005 David Turner and Werner Lemberg
Copyright © 2016 Igalia S.L.
Copyright © 2022 Matthias Clasen
Copyright © 2018,2021 Khaled Hosny
Copyright © 2018,2019,2020 Adobe, Inc
Copyright © 2013-2015 Alexei Podtelezhnikov
```

```
For full copyright notices consult the individual files in the package.


Permission is hereby granted, without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.


----

LCMS2

Little CMS
Copyright (c) 1998-2020 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


----

LIBJPEG

1. We don't promise that this software works.  (But if you find any bugs,
   please let us know!)
2. You can use this software for whatever you want.  You don't have to pay
 us.
3. You may not pretend that you wrote this software.  If you use it in a
   program, you must acknowledge somewhere in your documentation that
   you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
```

```
fitness for a particular purpose.  This software is provided "AS IS", and
 you,
its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2020, Thomas G. Lane, Guido Vollbeding.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this
software (or portions thereof) for any purpose, without fee, subject to
 these
conditions:
(1) If any part of the source code for this software is distributed, then
 this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG
 code,
not just to the unmodified library.  If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company
 name
in advertising or publicity relating to this software or products derived
 from
it.  This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage the use of this software as the basis
 of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.


----

LIBLZMA

XZ Utils Licensing
==================

    Different licenses apply to different files in this package. Here
    is a rough summary of which licenses apply to which parts of this
    package (but check the individual files to be sure!):

      - liblzma is in the public domain.

      - xz, xzdec, and lzmadec command line tools are in the public
        domain unless GNU getopt_long had to be compiled and linked
        in from the lib directory. The getopt_long code is under
        GNU LGPLv2.1+.

      - The scripts to grep, diff, and view compressed files have been
        adapted from gzip. These scripts and their documentation are
        under GNU GPLv2+.

      - All the documentation in the doc directory and most of the
```

```
        XZ Utils specific documentation files in other directories
        are in the public domain.

      - Translated messages are in the public domain.

      - The build system contains public domain files, and files that
        are under GNU GPLv2+ or GNU GPLv3+. None of these files end up
        in the binaries being built.

      - Test files and test code in the tests directory, and debugging
        utilities in the debug directory are in the public domain.

      - The extra directory may contain public domain files, and files
        that are under various free software licenses.

    You can do whatever you want with the files that have been put into
    the public domain. If you find public domain legally problematic,
    take the previous sentence as a license grant. If you still find
    the lack of copyright legally problematic, you have too many
    lawyers.

    As usual, this software is provided "as is", without any warranty.

    If you copy significant amounts of public domain code from XZ Utils
    into your project, acknowledging this somewhere in your software is
    polite (especially if it is proprietary, non-free software), but
    naturally it is not legally required. Here is an example of a good
    notice to put into "about box" or into documentation:

        This software includes code from XZ Utils <http://tukaani.org/xz/>.

    The following license texts are included in the following files:
      - COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1
      - COPYING.GPLv2: GNU General Public License version 2
      - COPYING.GPLv3: GNU General Public License version 3

    Note that the toolchain (compiler, linker etc.) may add some code
    pieces that are copyrighted. Thus, it is possible that e.g. liblzma
    binary wouldn't actually be in the public domain in its entirety
    even though it contains no copyrighted code from the XZ Utils source
    package.

    If you have questions, don't hesitate to ask the author(s) for more
    information.


----

LIBPNG

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2
---------------------------------------

 * Copyright (c) 1995-2022 The PNG Reference Library Authors.
 * Copyright (c) 2018-2022 Cosmin Truta.
 * Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
 * Copyright (c) 1996-1997 Andreas Dilger.
 * Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
```

```
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

 1. The origin of this software must not be misrepresented; you
    must not claim that you wrote the original software.  If you
    use this software in a product, an acknowledgment in the product
    documentation would be appreciated, but is not required.

 2. Altered source versions must be plainly marked as such, and must
    not be misrepresented as being the original software.

 3. This Copyright notice may not be removed or altered from any
    source or altered source distribution.


PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
------------------------------------------------------------------------

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

    Simon-Pierre Cadieux
    Eric S. Raymond
    Mans Rullgard
    Cosmin Truta
    Gilles Vollant
    James Yu
    Mandar Sahastrabuddhe
    Google Inc.
    Vadim Barkov

and with the following additions to the disclaimer:

    There is no warranty against interference with your enjoyment of
    the library or against infringement.  There is no warranty that our
    efforts or the library will fulfill any of your particular purposes
    or needs.  This library is provided with all faults, and the entire
    risk of satisfactory quality, performance, accuracy, and effort is
    with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

    Tom Lane
    Glenn Randers-Pehrson
```

```
    Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

    John Bowler
    Kevin Bracey
    Sam Bushell
    Magnus Holmgren
    Greg Roelofs
    Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

    Andreas Dilger
    Dave Martindale
    Guy Eric Schalnat
    Paul Schmidt
    Tim Wegner

The PNG Reference Library is supplied "AS IS".  The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose.  The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

 1. The origin of this source code must not be misrepresented.

 2. Altered versions must be plainly marked as such and must not
    be misrepresented as being the original source.

 3. This Copyright notice may not be removed or altered from any
    source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products.  If you use
this source code in a product, acknowledgment is not required but would
be appreciated.


----

LIBTIFF

Copyright (c) 1988-1997 Sam Leffler
Copyright (c) 1991-1997 Silicon Graphics, Inc.
```

```
Permission to use, copy, modify, distribute, and sell this software and
its documentation for any purpose is hereby granted without fee, provided
that (i) the above copyright notices and this permission notice appear in
all copies of the software and related documentation, and (ii) the names of
Sam Leffler and Silicon Graphics may not be used in any advertising or
publicity relating to the software without the specific, prior written
permission of Sam Leffler and Silicon Graphics.

THE SOFTWARE IS PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND,
EXPRESS, IMPLIED OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY
WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL SAM LEFFLER OR SILICON GRAPHICS BE LIABLE FOR
ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND,
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER OR NOT ADVISED OF THE POSSIBILITY OF DAMAGE, AND ON ANY THEORY OF
LIABILITY, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THIS SOFTWARE.


----

LIBWEBP

Copyright (c) 2010, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

  * Neither the name of Google nor the names of its contributors may
    be used to endorse or promote products derived from this software
    without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----

OPENJPEG

*
 * The copyright in this software is being made available under the 2-
clauses
 * BSD License, included below. This software may be subject to other third
```

```
 * party and contributor rights, including patent rights, and no such rights
 * are granted under this license.
 *
 * Copyright (c) 2002-2014, Universite catholique de Louvain (UCL), Belgium
 * Copyright (c) 2002-2014, Professor Benoit Macq
 * Copyright (c) 2003-2014, Antonin Descampe
 * Copyright (c) 2003-2009, Francois-Olivier Devaux
 * Copyright (c) 2005, Herve Drolon, FreeImage Team
 * Copyright (c) 2002-2003, Yannick Verschueren
 * Copyright (c) 2001-2003, David Janssens
 * Copyright (c) 2011-2012, Centre National d'Etudes Spatiales (CNES),
 France
 * Copyright (c) 2012, CS Systemes d'Information, France
 *
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS `AS
 IS'
 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 THE
 * POSSIBILITY OF SUCH DAMAGE.
 */


----

RAQM

The MIT License (MIT)

Copyright © 2015 Information Technology Authority (ITA) <foss@ita.gov.om>
Copyright © 2016 Khaled Hosny <khaledhosny@eglug.org>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


----

XAU

Copyright 1988, 1993, 1994, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.


----

XCB

Copyright (C) 2001-2006 Bart Massey, Jamey Sharp, and Josh Triplett.
All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall
be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
```

```
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the names of the authors
or their institutions shall not be used in advertising or
otherwise to promote the sale, use or other dealings in this
Software without prior written authorization from the
authors.


----

XDMCP

Copyright 1989, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.

Author:  Keith Packard, MIT X Consortium


----

ZLIB

 (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu
```

```
If you use the zlib library in a product, we would appreciate *not*
 receiving
lengthy legal documents to sign.  The sources are provided for free but
 without
warranty of any kind.  The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include
 in
the file ChangeLog history information documenting your changes.  Please
 read
the FAQ for more information on the distribution of modified source
 versions.

----------------------------------------------
prometheus-fastapi-instrumentator
ISC
ISC License

Copyright (c) 2022 Tim Schwenke <tim@trallnag.com>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------
prometheus_client
Apache 2.0
Copyright Prometheus Authors 2014-2024

----------------------------------------------
protobuf
3-Clause BSD License
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.

----------------------------------------------
psutil
BSD License
BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
py-cpuinfo
MIT License
The MIT License (MIT)

Copyright (c) 2014-2022 Matthew Brennan Jones
 <matthew.brennan.jones@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
```

```
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
pyairports
Apache 2.0
Copyright (C) 2015-2016 Data61, Commonwealth Scientific and Industrial
 Research Organisation (CSIRO).

----------------------------------------------
pyarrow
Apache Software License

----------------------------------------------
pyarrow-hotfix
Apache License, Version 2.0

----------------------------------------------
pycountry
GNU Lesser General Public License v2 (LGPLv2)
   GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

 Copyright (C) 1991, 1999 Free Software Foundation, Inc.
 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
 as the successor of the GNU Library Public License, version 2, hence
 the version number 2.1.]

                             Preamble

  The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
```

```
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

  We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.
```

```
  For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

  In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

  Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

  The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

                  GNU LESSER GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

  A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

  The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

  "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

  Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

  1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
```

```
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

  You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application.  Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
```

```
that version instead if you wish.)  Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
```

```
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

    a) Accompany the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

  It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

  7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work
    based on the Library, uncombined with any other library
    facilities.  This must be distributed under the terms of the
    Sections above.
```

```
    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
```

```
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                            NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                      END OF TERMS AND CONDITIONS

----------------------------------------------
pydantic
MIT License
The MIT License (MIT)

Copyright (c) 2017 to present Pydantic Services Inc. and individual
 contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

```
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
pydantic_core
MIT License
The MIT License (MIT)

Copyright (c) 2022 Samuel Colvin

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
pygments
BSD License
Copyright (c) 2006-2022 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
```

```
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
python-dateutil
Apache Software License; BSD License
Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
```

```
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.
----------------------------------------------
python-multipart
Apache Software License

----------------------------------------------
pytz
MIT License
Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

----------------------------------------------
pyyaml
MIT License
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
pyzmq
BSD License
BSD 3-Clause License

Copyright (c) 2009-2012, Brian Granger, Min Ragan-Kelley

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
ray
Apache 2.0

----------------------------------------------
partial-json-parser
MIT License

Copyright (c) 2023 Promplate Dev Team

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


----------------------------------------------
referencing
MIT License
Copyright (c) 2022 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
regex
Apache 2.0
Copyright 2020 Matthew Barnett

----------------------------------------------
requests
Apache 2.0
Copyright 2019 Kenneth Reitz

----------------------------------------------
rich
MIT License
Copyright (c) 2020 Will McGugan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
rpds-py
MIT License
Copyright (c) 2023 Julian Berman

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
safetensors
Apache 2.0
Copyright 2018- The Hugging Face team. All rights reserved.

----------------------------------------------
sentencepiece
Apache Software License

----------------------------------------------
shellingham
ISC License (ISCL)
Copyright (c) 2018, Tzu-ping Chung <uranusjr@gmail.com>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------
six
MIT License
Copyright (c) 2010-2020 Benjamin Peterson
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------
sniffio
Apache Software License; MIT License
This software is made available under the terms of *either* of the
licenses found in LICENSE.APACHE2 or LICENSE.MIT. Contributions to are
made under the terms of *both* these licenses.
The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

------------------------------------------------
starlette
BSD License
Copyright © 2018, [Encode OSS Ltd](https://www.encode.io/).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
```

```
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
sympy
BSD License
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:

Copyright (c) 2006-2018 SymPy Development Team,
              2013-2023 Sergey B Kirpichev
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of Diofant or SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Submodules taken from the multipledispatch project (https://github.com/
mrocklin/multipledispatch)
are licensed as:

Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of multipledispatch nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------
```

```
The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

```
----------------------------------------------
tiktoken
MIT License

Copyright (c) 2022 OpenAI, Shantanu Jain

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

MIT License

Copyright (c) 2022 OpenAI, Shantanu Jain

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
tokenizers
Apache Software License

----------------------------------------------
torch
BSD License
From PyTorch:
```

```
Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
```

```
3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.


The Pytorch repository and source distributions bundle several libraries
 that are
compatibly licensed.  We list these here.

Name: DCGM
License: Apache-2.0
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/DCGM
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/DCGM/LICENSE

Name: FP16
License: MIT
Files: third_party/FP16
  For details, see the files concatenated below: third_party/FP16/LICENSE

Name: FXdiv
License: MIT
Files: third_party/FXdiv
  For details, see the files concatenated below: third_party/FXdiv/LICENSE

Name: NNPACK
License: BSD-2-Clause
Files: third_party/NNPACK
  For details, see the files concatenated below: third_party/NNPACK/LICENSE

Name: QNNPACK
License: BSD-3-Clause
Files: third_party/QNNPACK
  For details, see the files concatenated below: third_party/QNNPACK/LICENSE

Name: VulkanMemoryAllocator
License: MIT
Files: third_party/VulkanMemoryAllocator
  For details, see the files concatenated below: third_party/
VulkanMemoryAllocator/LICENSE.txt

Name: XNNPACK
License: BSD-3-Clause
Files: third_party/XNNPACK
  For details, see the files concatenated below: third_party/XNNPACK/LICENSE

Name: benchmark
License: Apache-2.0
Files: third_party/benchmark,
     third_party/onnx/third_party/benchmark,
```

```
     third_party/onnx-tensorrt/third_party/onnx/third_party/benchmark,
     third_party/protobuf/third_party/benchmark
  For details, see the files concatenated below: third_party/benchmark/
LICENSE,
     third_party/onnx/third_party/benchmark/LICENSE,
     third_party/onnx-tensorrt/third_party/onnx/third_party/benchmark/
LICENSE,
     third_party/protobuf/third_party/benchmark/LICENSE

Name: clog
License: BSD-2-Clause
Files: third_party/QNNPACK/deps/clog,
     third_party/cpuinfo/deps/clog,
     third_party/fbgemm/third_party/cpuinfo/deps/clog
  For details, see the files concatenated below: third_party/QNNPACK/deps/
clog/LICENSE,
     third_party/cpuinfo/deps/clog/LICENSE,
     third_party/fbgemm/third_party/cpuinfo/deps/clog/LICENSE

Name: colorama
License: BSD-3-Clause
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/DCGM/
testing/python3/libs_3rdparty/colorama
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/DCGM/testing/python3/
libs_3rdparty/colorama/LICENSE.txt

Name: cpplint
License: BSD-3-Clause
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/json/
third_party/cpplint,
     third_party/nlohmann/tools/cpplint
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/json/third_party/cpplint/LICENSE,
     third_party/nlohmann/tools/cpplint/LICENSE

Name: cpr
License: MIT
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/cpr
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/cpr/LICENSE

Name: cpuinfo
License: BSD-2-Clause
Files: third_party/cpuinfo,
     third_party/fbgemm/third_party/cpuinfo
  For details, see the files concatenated below: third_party/cpuinfo/
LICENSE,
     third_party/fbgemm/third_party/cpuinfo/LICENSE

Name: cudnn_frontend
License: MIT
Files: third_party/cudnn_frontend
  For details, see the files concatenated below: third_party/cudnn_frontend/
LICENSE.txt

Name: cutlass
License: BSD-3-Clause
Files: third_party/cutlass,
     third_party/fbgemm/third_party/cutlass
  For details, see the files concatenated below: third_party/cutlass/
LICENSE.txt,
     third_party/fbgemm/third_party/cutlass/LICENSE.txt
```

```
Name: dart
License: Apache-2.0
Files: third_party/flatbuffers/dart
  For details, see the files concatenated below: third_party/flatbuffers/
dart/LICENSE

Name: doctest
License: MIT
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/json/
test/thirdparty/doctest,
     third_party/nlohmann/tests/thirdparty/doctest
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/json/test/thirdparty/doctest/
LICENSE.txt,
     third_party/nlohmann/tests/thirdparty/doctest/LICENSE.txt

Name: dynolog
License: MIT
Files: third_party/kineto/libkineto/third_party/dynolog
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/LICENSE

Name: eigen
License: BSD-3-Clause
Files: third_party/eigen
  For details, see the files concatenated below: third_party/eigen/
COPYING.BSD

Name: fbgemm
License: BSD-3-Clause
Files: third_party/fbgemm
  For details, see the files concatenated below: third_party/fbgemm/LICENSE

Name: flatbuffers
License: Apache-2.0
Files: third_party/flatbuffers
  For details, see the files concatenated below: third_party/flatbuffers/
LICENSE

Name: fmt
License: MIT with exception
Files: third_party/fmt,
     third_party/kineto/libkineto/third_party/dynolog/third_party/fmt,
     third_party/kineto/libkineto/third_party/fmt
  For details, see the files concatenated below: third_party/fmt/LICENSE,
     third_party/kineto/libkineto/third_party/dynolog/third_party/fmt/
LICENSE.rst,
     third_party/kineto/libkineto/third_party/fmt/LICENSE.rst

Name: foxi
License: MIT
Files: third_party/foxi
  For details, see the files concatenated below: third_party/foxi/LICENSE

Name: gemmlowp
License: Apache-2.0
Files: third_party/gemmlowp/gemmlowp
  For details, see the files concatenated below: third_party/gemmlowp/
gemmlowp/LICENSE

Name: generator
License: Apache-2.0
Files: third_party/fbgemm/third_party/googletest/googlemock/scripts/
generator,
```

```
     third_party/googletest/googlemock/scripts/generator,
     third_party/kineto/libkineto/third_party/googletest/googlemock/scripts/
generator,
     third_party/protobuf/third_party/googletest/googlemock/scripts/
generator,
     third_party/tensorpipe/third_party/googletest/googlemock/scripts/
generator
  For details, see the files concatenated below: third_party/fbgemm/
third_party/googletest/googlemock/scripts/generator/LICENSE,
     third_party/googletest/googlemock/scripts/generator/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/googlemock/scripts/
generator/LICENSE,
     third_party/protobuf/third_party/googletest/googlemock/scripts/
generator/LICENSE,
     third_party/tensorpipe/third_party/googletest/googlemock/scripts/
generator/LICENSE

Name: gloo
License: BSD-3-Clause
Files: third_party/gloo
  For details, see the files concatenated below: third_party/gloo/LICENSE

Name: googlemock
License: BSD-3-Clause
Files: third_party/fbgemm/third_party/googletest/googlemock,
     third_party/kineto/libkineto/third_party/googletest/googlemock,
     third_party/protobuf/third_party/googletest/googlemock,
     third_party/tensorpipe/third_party/googletest/googlemock
  For details, see the files concatenated below: third_party/fbgemm/
third_party/googletest/googlemock/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/googlemock/LICENSE,
     third_party/protobuf/third_party/googletest/googlemock/LICENSE,
     third_party/tensorpipe/third_party/googletest/googlemock/LICENSE

Name: googletest
License: BSD-3-Clause
Files: third_party/fbgemm/third_party/googletest,
     third_party/fbgemm/third_party/googletest/googletest,
     third_party/googletest,
     third_party/kineto/libkineto/third_party/dynolog/third_party/
googletest,
     third_party/kineto/libkineto/third_party/googletest,
     third_party/kineto/libkineto/third_party/googletest/googletest,
     third_party/protobuf/third_party/googletest,
     third_party/protobuf/third_party/googletest/googletest,
     third_party/tensorpipe/third_party/googletest,
     third_party/tensorpipe/third_party/googletest/googletest
  For details, see the files concatenated below: third_party/fbgemm/
third_party/googletest/LICENSE,
     third_party/fbgemm/third_party/googletest/googletest/LICENSE,
     third_party/googletest/LICENSE,
     third_party/kineto/libkineto/third_party/dynolog/third_party/
googletest/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/LICENSE,
     third_party/kineto/libkineto/third_party/googletest/googletest/LICENSE,
     third_party/protobuf/third_party/googletest/LICENSE,
     third_party/protobuf/third_party/googletest/googletest/LICENSE,
     third_party/tensorpipe/third_party/googletest/LICENSE,
     third_party/tensorpipe/third_party/googletest/googletest/LICENSE

Name: gtest
License: BSD-3-Clause
Files: third_party/ideep/mkl-dnn/tests/gtests/gtest
```

```
  For details, see the files concatenated below: third_party/ideep/mkl-dnn/
tests/gtests/gtest/LICENSE

Name: hipify_torch
License: MIT
Files: third_party/fbgemm/third_party/hipify_torch
  For details, see the files concatenated below: third_party/fbgemm/
third_party/hipify_torch/LICENSE.txt

Name: ideep
License: MIT
Files: third_party/ideep
  For details, see the files concatenated below: third_party/ideep/LICENSE

Name: ios-cmake
License: BSD-3-Clause
Files: third_party/ios-cmake
  For details, see the files concatenated below: third_party/ios-cmake/
LICENSE

Name: kineto
License: BSD-3-Clause
Files: third_party/kineto
  For details, see the files concatenated below: third_party/kineto/LICENSE

Name: libnop
License: Apache-2.0
Files: third_party/tensorpipe/third_party/libnop
  For details, see the files concatenated below: third_party/tensorpipe/
third_party/libnop/LICENSE

Name: libuv
License: MIT
Files: third_party/tensorpipe/third_party/libuv
  For details, see the files concatenated below: third_party/tensorpipe/
third_party/libuv/LICENSE

Name: mimalloc
License: MIT
Files: third_party/mimalloc
  For details, see the files concatenated below: third_party/mimalloc/
LICENSE

Name: miniz-2.1.0
License: MIT
Files: third_party/miniz-2.1.0
  For details, see the files concatenated below: third_party/miniz-2.1.0/
LICENSE

Name: mkl-dnn
License: Apache-2.0
Files: third_party/ideep/mkl-dnn
  For details, see the files concatenated below: third_party/ideep/mkl-dnn/
LICENSE

Name: nccl
License: BSD-3-Clause
Files: third_party/nccl/nccl
  For details, see the files concatenated below: third_party/nccl/nccl/
LICENSE.txt

Name: neon2sse
License: BSD-Source-Code
Files: third_party/neon2sse
```

```
  For details, see the files concatenated below: third_party/neon2sse/
LICENSE

Name: onnx
License: Apache-2.0
Files: third_party/onnx
  For details, see the files concatenated below: third_party/onnx/LICENSE

Name: onnx
License: MIT
Files: third_party/onnx-tensorrt/third_party/onnx
  For details, see the files concatenated below: third_party/onnx-tensorrt/
third_party/onnx/LICENSE

Name: onnx-tensorrt
License: MIT
Files: third_party/onnx-tensorrt
  For details, see the files concatenated below: third_party/onnx-tensorrt/
LICENSE

Name: pfs
License: Apache-2.0
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/pfs
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/pfs/LICENSE

Name: protobuf
License: BSD-3-Clause
Files: third_party/protobuf
  For details, see the files concatenated below: third_party/protobuf/
LICENSE

Name: psimd
License: MIT
Files: third_party/psimd
  For details, see the files concatenated below: third_party/psimd/LICENSE

Name: pthreadpool
License: BSD-2-Clause
Files: third_party/pthreadpool
  For details, see the files concatenated below: third_party/pthreadpool/
LICENSE

Name: pybind11
License: BSD-3-Clause
Files: third_party/onnx/third_party/pybind11,
     third_party/onnx-tensorrt/third_party/onnx/third_party/pybind11,
     third_party/pybind11,
     third_party/tensorpipe/third_party/pybind11
  For details, see the files concatenated below: third_party/onnx/
third_party/pybind11/LICENSE,
     third_party/onnx-tensorrt/third_party/onnx/third_party/pybind11/
LICENSE,
     third_party/pybind11/LICENSE,
     third_party/tensorpipe/third_party/pybind11/LICENSE

Name: python
License: BSD-3-Clause
Files: third_party/cutlass/python
  For details, see the files concatenated below: third_party/cutlass/python/
LICENSE.txt

Name: python-peachpy
License: BSD-2-Clause
```

```
Files: third_party/python-peachpy
  For details, see the files concatenated below: third_party/python-peachpy/
LICENSE.rst

Name: sleef
License: BSL-1.0
Files: third_party/sleef
  For details, see the files concatenated below: third_party/sleef/
LICENSE.txt

Name: swift
License: Apache-2.0
Files: third_party/flatbuffers/swift
  For details, see the files concatenated below: third_party/flatbuffers/
swift/LICENSE

Name: tb_plugin
License: BSD-3-Clause
Files: third_party/kineto/tb_plugin
  For details, see the files concatenated below: third_party/kineto/
tb_plugin/LICENSE

Name: tbb
License: Apache-2.0
Files: third_party/tbb
  For details, see the files concatenated below: third_party/tbb/LICENSE

Name: tensorpipe
License: BSD-3-Clause
Files: third_party/tensorpipe
  For details, see the files concatenated below: third_party/tensorpipe/
LICENSE.txt

Name: test
License: MIT with exception
Files: third_party/kineto/libkineto/third_party/dynolog/third_party/cpr/test
  For details, see the files concatenated below: third_party/kineto/
libkineto/third_party/dynolog/third_party/cpr/test/LICENSE

Name: zstd
License: BSD-3-Clause
Files: third_party/zstd
  For details, see the files concatenated below: third_party/zstd/LICENSE

third_party/kineto/libkineto/third_party/dynolog/third_party/DCGM/LICENSE
--------------------------------------------------------------------------
Copyright (c) 2022, NVIDIA CORPORATION.  All rights reserved.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


third_party/FP16/LICENSE
------------------------
The MIT License (MIT)
```

```
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


third_party/FXdiv/LICENSE
-------------------------
The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2016-2017 Marat Dukhan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


third_party/NNPACK/LICENSE
--------------------------
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
```

```
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/QNNPACK/LICENSE
---------------------------
BSD License

For QNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/VulkanMemoryAllocator/LICENSE.txt
---------------------------------------------
Copyright (c) 2017-2022 Advanced Micro Devices, Inc. All rights reserved.
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


third_party/XNNPACK/LICENSE
---------------------------
BSD License

For XNNPACK software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.
Copyright 2019 Google LLC

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/benchmark/LICENSE
-----------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
 systems,
      and issue tracking systems that are managed by, or on behalf of, the
```

```
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.
```

```
   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
```

```
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/onnx/third_party/benchmark/LICENSE
----------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
```

```
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.

  3. Grant of Patent License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     (except as stated in this section) patent license to make, have made,
     use, offer to sell, sell, import, and otherwise transfer the Work,
     where such license applies only to those patent claims licensable
     by such Contributor that are necessarily infringed by their
     Contribution(s) alone or by combination of their Contribution(s)
     with the Work to which such Contribution(s) was submitted. If You
     institute patent litigation against any entity (including a
     cross-claim or counterclaim in a lawsuit) alleging that the Work
     or a Contribution incorporated within the Work constitutes direct
     or contributory patent infringement, then any patent licenses
     granted to You under this License for that Work shall terminate
     as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute copies of the
     Work or Derivative Works thereof in any medium, with or without
     modifications, and in Source or Object form, provided that You
     meet the following conditions:

     (a) You must give any other recipients of the Work or
         Derivative Works a copy of this License; and

     (b) You must cause any modified files to carry prominent notices
         stating that You changed the files; and

     (c) You must retain, in the Source form of any Derivative Works
         that You distribute, all copyright, patent, trademark, and
         attribution notices from the Source form of the Work,
         excluding those notices that do not pertain to any part of
         the Derivative Works; and
```

```
      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
```

```
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/onnx-tensorrt/third_party/onnx/third_party/benchmark/LICENSE
--------------------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/protobuf/third_party/benchmark/LICENSE
--------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.


third_party/QNNPACK/deps/clog/LICENSE
-------------------------------------
Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/cpuinfo/deps/clog/LICENSE
-------------------------------------
Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
```

```
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/cpuinfo/deps/clog/LICENSE
--------------------------------------------------------
Copyright (C) 2018 Marat Dukhan
Copyright (c) 2017-2018 Facebook Inc.
Copyright (c) 2017 Georgia Institute of Technology

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/dynolog/third_party/DCGM/testing/
python3/libs_3rdparty/colorama/LICENSE.txt
-------------------------------------------------------------------------------
Copyright (c) 2010 Jonathan Hartley <tartley@tartley.com>

Released under the New BSD license (reproduced below), or alternatively you
 may
use this software under any OSI approved open source license such as those
 at
http://opensource.org/licenses/alphabetical

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
```

```
* Neither the name(s) of the copyright holders, nor those of its
 contributors
  may be used to endorse or promote products derived from this software
 without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



third_party/kineto/libkineto/third_party/dynolog/third_party/json/
third_party/cpplint/LICENSE
-------------------------------------------------------------------------------------------
cpplint.py and its corresponding unit tests are Copyright (C) 2009 Google
 Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/nlohmann/tools/cpplint/LICENSE
------------------------------------------
cpplint.py and its corresponding unit tests are Copyright (C) 2009 Google
 Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/dynolog/third_party/cpr/LICENSE
---------------------------------------------------------------------------
This license applies to everything except the contents of the "test"
directory and its subdirectories.

MIT License

Copyright (c) 2017-2021 Huu Nguyen
Copyright (c) 2022 libcpr and many other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

third_party/cpuinfo/LICENSE
---------------------------
Copyright (c) 2019 Google LLC
Copyright (c) 2017-2018 Facebook Inc.
Copyright (C) 2012-2017 Georgia Institute of Technology
Copyright (C) 2010-2012 Marat Dukhan
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/cpuinfo/LICENSE
----------------------------------------------
Copyright (c) 2019 Google LLC
Copyright (c) 2017-2018 Facebook Inc.
Copyright (C) 2012-2017 Georgia Institute of Technology
Copyright (C) 2010-2012 Marat Dukhan

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/cudnn_frontend/LICENSE.txt
```

```
---------------------------------------
/*
 * Copyright (c) 2020, NVIDIA CORPORATION. All rights reserved.
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 * copy of this software and associated documentation files (the
 "Software"),
 * to deal in the Software without restriction, including without limitation
 * the rights to use, copy, modify, merge, publish, distribute, sublicense,
 * and/or sell copies of the Software, and to permit persons to whom the
 * Software is furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included
 in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 * THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 * DEALINGS IN THE SOFTWARE.
 */


third_party/cutlass/LICENSE.txt
-------------------------------
Copyright (c) 2017 - 2024 NVIDIA CORPORATION & AFFILIATES. All rights
 reserved.
SPDX-License-Identifier: BSD-3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/fbgemm/third_party/cutlass/LICENSE.txt
--------------------------------------------------
Copyright (c) 2017 - 2022 NVIDIA CORPORATION & AFFILIATES. All rights
 reserved.
SPDX-License-Identifier: BSD-3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/flatbuffers/dart/LICENSE
------------------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
```

```
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.
```

```
   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.
```

```
   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2014 Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/kineto/libkineto/third_party/dynolog/third_party/json/test/
thirdparty/doctest/LICENSE.txt
-------------------------------------------------------------------------------------------
The MIT License (MIT)

Copyright (c) 2016-2021 Viktor Kirilov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/nlohmann/tests/thirdparty/doctest/LICENSE.txt
---------------------------------------------------------
The MIT License (MIT)

Copyright (c) 2016-2021 Viktor Kirilov

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/kineto/libkineto/third_party/dynolog/LICENSE
--------------------------------------------------------
MIT License

Copyright (c) Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/eigen/COPYING.BSD
-----------------------------
/*
 Copyright (c) 2011, Intel Corporation. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification,
 are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name of Intel Corporation nor the names of its contributors
 may
   be used to endorse or promote products derived from this software without
   specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
 ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/


third_party/fbgemm/LICENSE
--------------------------
BSD License

For FBGEMM software

Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
```

```
 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/flatbuffers/LICENSE
-------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
```

```
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:
```

```
      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
```

```
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/fmt/LICENSE
-----------------------
Copyright (c) 2012 - present, Victor Zverovich and {fmt} contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
```

```
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


third_party/kineto/libkineto/third_party/dynolog/third_party/fmt/LICENSE.rst
--------------------------------------------------------------------------------
Copyright (c) 2012 - present, Victor Zverovich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


third_party/kineto/libkineto/third_party/fmt/LICENSE.rst
--------------------------------------------------------
Copyright (c) 2012 - present, Victor Zverovich

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
```

```
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--- Optional exception to the license ---

As an exception, if, as a result of your compiling your source code,
 portions
of this Software are embedded into a machine-executable object form of such
source code, you may redistribute such embedded portions in such object form
without including the above copyright and permission notices.


third_party/foxi/LICENSE
------------------------
MIT License

Copyright (c) 2019 Lu Fang

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/gemmlowp/gemmlowp/LICENSE
-------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
```

```
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
```

```
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
```

```
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/fbgemm/third_party/googletest/googlemock/scripts/generator/
LICENSE
--------------------------------------------------------------------------------
```

```
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
```

```
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
```

```
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [2007] Neal Norwitz
   Portions Copyright [2007] Google Inc.
```

```
   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/googletest/googlemock/scripts/generator/LICENSE
------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.
```

```
      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
```

```
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
```

```
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [2007] Neal Norwitz
   Portions Copyright [2007] Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/kineto/libkineto/third_party/googletest/googlemock/scripts/
generator/LICENSE
-------------------------------------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.
```

```
      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
```

```
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
```

```
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [2007] Neal Norwitz
   Portions Copyright [2007] Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/protobuf/third_party/googletest/googlemock/scripts/generator/
LICENSE
--------------------------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
```

```
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [2007] Neal Norwitz
   Portions Copyright [2007] Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.


third_party/tensorpipe/third_party/googletest/googlemock/scripts/generator/
LICENSE
--------------------------------------------------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
```

```
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [2007] Neal Norwitz
   Portions Copyright [2007] Google Inc.

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/gloo/LICENSE
------------------------
BSD License

For Gloo software

Copyright (c) 2017-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/fbgemm/third_party/googletest/googlemock/LICENSE
------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/googletest/googlemock/LICENSE
----------------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/protobuf/third_party/googletest/googlemock/LICENSE
--------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/tensorpipe/third_party/googletest/googlemock/LICENSE
----------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/fbgemm/third_party/googletest/LICENSE
-------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/googletest/googletest/LICENSE
------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/googletest/LICENSE
------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/dynolog/third_party/googletest/
LICENSE
-------------------------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/kineto/libkineto/third_party/googletest/LICENSE
-----------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/googletest/googletest/LICENSE
----------------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/protobuf/third_party/googletest/LICENSE
---------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/protobuf/third_party/googletest/googletest/LICENSE
--------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/tensorpipe/third_party/googletest/LICENSE
-----------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/tensorpipe/third_party/googletest/googletest/LICENSE
----------------------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/ideep/mkl-dnn/tests/gtests/gtest/LICENSE
----------------------------------------------------
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/fbgemm/third_party/hipify_torch/LICENSE.txt
-------------------------------------------------------
MIT License

Copyright (c) 2017 AMD Compute Libraries

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/ideep/LICENSE
```

```
-------------------------
Copyright (c) 2018 Intel Corporation.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


third_party/ios-cmake/LICENSE
-----------------------------
Copyright (c) 2011-2014, Andrew Fischer <andrew@ltengsoft.com>
Copyright (c) 2016, Bogdan Cristea <cristeab@gmail.com>
Copyright (c) 2017, Yangqing Jia <me@daggerfs.com>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
may be used to endorse or promote products derived from this software
 without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
third_party/kineto/LICENSE
--------------------------
BSD License

For Kineto software

Copyright (c) Meta Platforms, Inc. and affiliates.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Meta nor the names of its contributors may be used to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/tensorpipe/third_party/libnop/LICENSE
-------------------------------------------------
Copyright 2017 The Native Object Protocols Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


third_party/tensorpipe/third_party/libuv/LICENSE
```

```
-------------------------------------------------
libuv is licensed for use as follows:

====
Copyright (c) 2015-present libuv project contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
====

This license applies to parts of libuv originating from the
https://github.com/joyent/libuv repository:

====

Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

====

This license applies to all parts of libuv that are not externally
maintained libraries.

The externally maintained libraries used by libuv are:

  - tree.h (from FreeBSD), copyright Niels Provos. Two clause BSD license.

  - inet_pton and inet_ntop implementations, contained in src/inet.c, are
    copyright the Internet Systems Consortium, Inc., and licensed under the
 ISC
    license.

  - stdint-msvc2008.h (from msinttypes), copyright Alexander Chemeris. Three
```

```
    clause BSD license.

  - pthread-fixes.c, copyright Google Inc. and Sony Mobile Communications
 AB.
    Three clause BSD license.

  - android-ifaddrs.h, android-ifaddrs.c, copyright Berkeley Software Design
    Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant
 agreement
    n° 289016). Three clause BSD license.


third_party/mimalloc/LICENSE
----------------------------
MIT License

Copyright (c) 2018-2021 Microsoft Corporation, Daan Leijen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/miniz-2.1.0/LICENSE
-------------------------------
Copyright 2013-2014 RAD Game Tools and Valve Software
Copyright 2010-2014 Rich Geldreich and Tenacious Software LLC

All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

```
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


third_party/ideep/mkl-dnn/LICENSE
---------------------------------
                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
```

```
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
```

```
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS


 ==============================================================================

   Copyright 2016-2023 Intel Corporation
   Copyright 2018 YANDEX LLC
```

```
   Copyright 2019-2023 FUJITSU LIMITED
   Copyright 2020-2023 Arm Ltd. and affiliates
   Copyright 2020-2022 Codeplay Software Limited
   Copyright 2021 Alanna Tempest
   Copyright 2022-2023 IBM Corporation
   Copyright 2023 KNS Group LLC (YADRO)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

   This distribution includes third party software ("third party programs").
   This third party software, even if included with the distribution of
   the Intel software, may be governed by separate license terms, including
   without limitation, third party license terms, other Intel software
 license
   terms, and open source software license terms. These separate license
 terms
   govern your use of the third party programs as set forth in the
   "THIRD-PARTY-PROGRAMS" file.


third_party/nccl/nccl/LICENSE.txt
---------------------------------

 Copyright (c) 2015-2020, NVIDIA CORPORATION. All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
  * Neither the name of NVIDIA CORPORATION, Lawrence Berkeley National
    Laboratory, the U.S. Department of Energy, nor the names of their
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

 The U.S. Department of Energy funded the development of this software
 under subcontract 7078610 with Lawrence Berkeley National Laboratory.
```

```
This code also includes files from the NVIDIA Tools Extension SDK project.

See:

   https://github.com/NVIDIA/NVTX

for more information and license details.


third_party/neon2sse/LICENSE
----------------------------
created by Victoria Zhislina, the Senior Application Engineer, Intel
 Corporation,  victoria.zhislina@intel.com

*** Copyright (C) 2012-2016 Intel Corporation.  All rights reserved.

IMPORTANT: READ BEFORE DOWNLOADING, COPYING, INSTALLING OR USING.

By downloading, copying, installing or using the software you agree to this
 license.
If you do not agree to this license, do not download, install, copy or use
 the software.

                             License Agreement
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

 * The name of the copyright holders may not be used to endorse or promote
 products
   derived from this software without specific prior written permission.

This software is provided by the copyright holders and contributors "as is"
 and
any express or implied warranties, including, but not limited to, the
 implied
warranties of merchantability and fitness for a particular purpose are
 disclaimed.
In no event shall the Intel Corporation or contributors be liable for any
 direct,
indirect, incidental, special, exemplary, or consequential damages
(including, but not limited to, procurement of substitute goods or services;
loss of use, data, or profits; or business interruption) however caused
and on any theory of liability, whether in contract, strict liability,
or tort (including negligence or otherwise) arising in any way out of
the use of this software, even if advised of the possibility of such damage.


third_party/onnx/LICENSE
------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.


third_party/onnx-tensorrt/third_party/onnx/LICENSE
--------------------------------------------------
Open Neural Network Exchange

Copyright (c) Facebook, Inc. and Microsoft Corporation.
All rights reserved.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the ""Software""), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.


third_party/onnx-tensorrt/LICENSE
---------------------------------
MIT License

Copyright (c) 2018, NVIDIA CORPORATION. All rights reserved.
Copyright (c) 2018 Open Neural Network Exchange

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


third_party/kineto/libkineto/third_party/dynolog/third_party/pfs/LICENSE
-------------------------------------------------------------------------
                                 Apache License
```

```
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
```

```
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
```

```
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   Copyright 2020-present Daniel Trugman

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
```

```
third_party/protobuf/LICENSE
----------------------------
Copyright 2008 Google Inc.  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
    * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.


third_party/psimd/LICENSE
-------------------------
The MIT License (MIT)

Copyright (c) 2017 Facebook Inc.
Copyright (c) 2014-2017 Georgia Institute of Technology
Copyright 2019 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

```
third_party/pthreadpool/LICENSE
-------------------------------
Copyright 2019 Google LLC
Copyright (c) 2017 Facebook Inc.
Copyright (c) 2015-2017 Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



third_party/onnx/third_party/pybind11/LICENSE
---------------------------------------------
Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
```

```
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file .github/CONTRIBUTING.md, which clarifies
 licensing of
external contributions to this project including patches, pull requests,
 etc.


third_party/onnx-tensorrt/third_party/onnx/third_party/pybind11/LICENSE
-----------------------------------------------------------------------
Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

You are under no obligation whatsoever to provide any bug fixes, patches, or
upgrades to the features, functionality or performance of the source code
("Enhancements") to anyone; however, if you choose to make your Enhancements
available either publicly, or directly to the author of this software,
 without
imposing a separate written license agreement for such Enhancements, then
 you
hereby grant the following license: a non-exclusive, royalty-free perpetual
license to install, use, modify, prepare derivative works, incorporate into
other computer software, distribute, and sublicense such enhancements or
derivative works thereof, in binary and source code form.


third_party/pybind11/LICENSE
----------------------------
Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file .github/CONTRIBUTING.md, which clarifies
 licensing of
external contributions to this project including patches, pull requests,
 etc.


third_party/tensorpipe/third_party/pybind11/LICENSE
---------------------------------------------------
Copyright (c) 2016 Wenzel Jakob <wenzel.jakob@epfl.ch>, All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
```

```
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please also refer to the file CONTRIBUTING.md, which clarifies licensing of
external contributions to this project including patches, pull requests,
 etc.


third_party/cutlass/python/LICENSE.txt
--------------------------------------
Copyright (c) 2017 - 2024 NVIDIA CORPORATION & AFFILIATES. All rights
 reserved.
SPDX-License-Identifier: BSD-3-Clause

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/python-peachpy/LICENSE.rst
---------------------------------------
==============================
PeachPy license (2-clause BSD)
==============================

Copyright (c) 2017, Facebook Inc.
Copyright (c) 2013-2017, Georgia Institute of Technology
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
```

```
2. Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.


third_party/sleef/LICENSE.txt
-----------------------------
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.


third_party/flatbuffers/swift/LICENSE
-------------------------------------

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/kineto/tb_plugin/LICENSE
------------------------------------
BSD License
```

```
For Kineto software

Copyright (c) Facebook, Inc. and its affiliates. All rights reserved.

All contributions by Microsoft:
Copyright (c) Microsoft Corporation. (The Azure AI Platform team)

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/tbb/LICENSE
------------------------
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
```

```
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
```

```
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
```

```
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


third_party/tensorpipe/LICENSE.txt
----------------------------------
BSD License

For TensorPipe software
```

```
Copyright (c) Meta Platforms, Inc. and affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Meta nor the names of its contributors may be used to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


third_party/kineto/libkineto/third_party/dynolog/third_party/cpr/test/
LICENSE
--------------------------------------------------------------------------------
This license applies to everything inside this directory and all
subdirectories.

                      GNU GENERAL PUBLIC LICENSE
                        Version 3, 29 June 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                             Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
```

```
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
```

```
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.
```

```
  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
```

```
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
```

```
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.
```

```
  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

  When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

  Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.
```

```
  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.
```

```
  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.
```

```
  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
```

```
  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
```

```
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.

third_party/zstd/LICENSE
------------------------
BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name Facebook nor the names of its contributors may be used
 to
   endorse or promote products derived from this software without specific
   prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------
torchvision
BSD
BSD 3-Clause License

Copyright (c) Soumith Chintala 2016,
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
tqdm
MIT License; Mozilla Public License 2.0 (MPL 2.0)
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------

Copyright (c) 2013 noamraph
```

```
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
transformers
Apache 2.0
Copyright 2018- The Hugging Face team. All rights reserved.

----------------------------------------------
triton
BSD
Copyright (c) 2022, NVIDIA CORPORATION. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
 * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
 * Neither the name of NVIDIA CORPORATION nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----------------------------------------------
typer
MIT License
The MIT License (MIT)
```

```
Copyright (c) 2019 Sebastián Ramírez

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
typing_extensions
Python Software Foundation License
A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
```

```
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
```

```
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
```

```
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
```

```
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
-------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------
tzdata
Apache 2.0
Copyright (c) 2020, Paul Ganssle (Google)

----------------------------------------------
urllib3
MIT License
```

```
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
uvicorn
BSD License
Copyright © 2017-present, [Encode OSS Ltd](https://www.encode.io/).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------------------------------
vllm-flash-attn
```

```
BSD License
BSD 3-Clause License

Copyright (c) 2022, the respective contributors, as shown by the AUTHORS
 file.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------
xformers
BSD License
From xFormers:

Copyright (c) Facebook, Inc. and its affiliates


===

BSD 3-Clause License

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
xxhash
BSD License
Copyright (c) 2014-2020, Yue Du
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
yarl
Apache Software License

----------------------------------------------

===================================Licenses===================================
Apache 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.
```

```
     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications
     represent, as a whole, an original work of authorship. For the
purposes
     of this License, Derivative Works shall not include works that remain
     separable from, or merely link (or bind by name) to the interfaces of,
     the Work and Derivative Works thereof.

     "Contribution" shall mean any work of authorship, including
     the original version of the Work and any modifications or additions
     to that Work or Derivative Works thereof, that is intentionally
     submitted to Licensor for inclusion in the Work by the copyright owner
     or by an individual or Legal Entity authorized to submit on behalf of
     the copyright owner. For the purposes of this definition, "submitted"
     means any form of electronic, verbal, or written communication sent
     to the Licensor or its representatives, including but not limited to
     communication on electronic mailing lists, source code control
systems,
     and issue tracking systems that are managed by, or on behalf of, the
     Licensor for the purpose of discussing and improving the Work, but
     excluding communication that is conspicuously marked or otherwise
     designated in writing by the copyright owner as "Not a Contribution."

     "Contributor" shall mean Licensor and any individual or Legal Entity
     on behalf of whom a Contribution has been received by Licensor and
     subsequently incorporated within the Work.

  2. Grant of Copyright License. Subject to the terms and conditions of
     this License, each Contributor hereby grants to You a perpetual,
     worldwide, non-exclusive, no-charge, royalty-free, irrevocable
     copyright license to reproduce, prepare Derivative Works of,
     publicly display, publicly perform, sublicense, and distribute the
     Work and such Derivative Works in Source or Object form.
```

```
   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.
```

```
   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
```

```
   limitations under the License.
----------------------------------------------

blake3-py

CC0-1.0 OR Apache-2.0


This work is released into the public domain with CC0 1.0. Alternatively, it
 is
licensed under the Apache License 2.0.

-------------------------------------------------------------------------------

Creative Commons Legal Code

CC0 1.0 Universal

    CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
    LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN
    ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS
    INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES
    REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS
    PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM
    THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED
    HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
exclusive Copyright and Related Rights (defined below) upon the creator
and subsequent owner(s) (each and all, an "owner") of an original work of
authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for
the purpose of contributing to a commons of creative, cultural and
scientific works ("Commons") that the public can reliably and without fear
of later claims of infringement build upon, modify, incorporate in other
works, reuse and redistribute as freely as possible in any form whatsoever
and for any purposes, including without limitation commercial purposes.
These owners may contribute to the Commons to promote the ideal of a free
culture and the further production of creative, cultural and scientific
works, or to gain reputation or greater distribution for their Work in
part through the use and efforts of others.

For these and/or other purposes and motivations, and without any
expectation of additional consideration or compensation, the person
associating CC0 with a Work (the "Affirmer"), to the extent that he or she
is an owner of Copyright and Related Rights in the Work, voluntarily
elects to apply CC0 to the Work and publicly distribute the Work under its
terms, with knowledge of his or her Copyright and Related Rights in the
Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
protected by copyright and related or neighboring rights ("Copyright and
Related Rights"). Copyright and Related Rights include, but are not
limited to, the following:

  i. the right to reproduce, adapt, distribute, perform, display,
     communicate, and translate a Work;
 ii. moral rights retained by the original author(s) and/or performer(s);
iii. publicity and privacy rights pertaining to a person's image or
     likeness depicted in a Work;
 iv. rights protecting against unfair competition in regards to a Work,
```

```
     subject to the limitations in paragraph 4(a), below;
  v. rights protecting the extraction, dissemination, use and reuse of data
     in a Work;
 vi. database rights (such as those arising under Directive 96/9/EC of the
     European Parliament and of the Council of 11 March 1996 on the legal
     protection of databases, and under any national implementation
     thereof, including any amended or successor version of such
     directive); and
vii. other similar, equivalent or corresponding rights throughout the
     world based on applicable law or treaty, and any national
     implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention
of, applicable law, Affirmer hereby overtly, fully, permanently,
irrevocably and unconditionally waives, abandons, and surrenders all of
Affirmer's Copyright and Related Rights and associated claims and causes
of action, whether now known or unknown (including existing as well as
future claims and causes of action), in the Work (i) in all territories
worldwide, (ii) for the maximum duration provided by applicable law or
treaty (including future time extensions), (iii) in any current or future
medium and for any number of copies, and (iv) for any purpose whatsoever,
including without limitation commercial, advertising or promotional
purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each
member of the public at large and to the detriment of Affirmer's heirs and
successors, fully intending that such Waiver shall not be subject to
revocation, rescission, cancellation, termination, or any other legal or
equitable action to disrupt the quiet enjoyment of the Work by the public
as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
be judged legally invalid or ineffective under applicable law, then the
Waiver shall be preserved to the maximum extent permitted taking into
account Affirmer's express Statement of Purpose. In addition, to the
extent the Waiver is so judged Affirmer hereby grants to each affected
person a royalty-free, non transferable, non sublicensable, non exclusive,
irrevocable and unconditional license to exercise Affirmer's Copyright and
Related Rights in the Work (i) in all territories worldwide, (ii) for the
maximum duration provided by applicable law or treaty (including future
time extensions), (iii) in any current or future medium and for any number
of copies, and (iv) for any purpose whatsoever, including without
limitation commercial, advertising or promotional purposes (the
"License"). The License shall be deemed effective as of the date CC0 was
applied by Affirmer to the Work. Should any part of the License for any
reason be judged legally invalid or ineffective under applicable law, such
partial invalidity or ineffectiveness shall not invalidate the remainder
of the License, and in such case Affirmer hereby affirms that he or she
will not (i) exercise any of his or her remaining Copyright and Related
Rights in the Work or (ii) assert any associated claims and causes of
action with respect to the Work, in either case contrary to Affirmer's
express Statement of Purpose.

4. Limitations and Disclaimers.

 a. No trademark or patent rights held by Affirmer are waived, abandoned,
    surrendered, licensed or otherwise affected by this document.
 b. Affirmer offers the Work as-is and makes no representations or
    warranties of any kind concerning the Work, express, implied,
    statutory or otherwise, including without limitation warranties of
    title, merchantability, fitness for a particular purpose, non
    infringement, or the absence of latent or other defects, accuracy, or
    the present or absence of errors, whether or not discoverable, all to
    the greatest extent permissible under applicable law.
 c. Affirmer disclaims responsibility for clearing rights of other persons
    that may apply to the Work or any use thereof, including without
```

```
    limitation any person's Copyright and Related Rights in the Work.
    Further, Affirmer disclaims responsibility for obtaining any necessary
    consents, permissions or other rights required for any use of the
    Work.
 d. Affirmer understands and acknowledges that Creative Commons is not a
    party to this document and has no duty or obligation with respect to
    this CC0 or use of the Work.

--------------------------------------------------------------------------------

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
 purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
```

```
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
```

```
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
```

```
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright 2020 Jack O'Connor

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.


----------------------------------------------
depyf

MIT license

MIT License

Copyright (c) 2023 Tsinghua University, Machine Learning Group (THUML)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
astor

BSD License (BSD-3-Clause)


Copyright (c) 2012, Patrick Maupin
Copyright (c) 2013, Berker Peksag
Copyright (c) 2008, Armin Ronacher
All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
 and/or
other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
may be used to endorse or promote products derived from this software
 without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------------------------------
dill

BSD License (BSD-3-Clause)

Copyright (c) 2004-2016 California Institute of Technology.
Copyright (c) 2016-2025 The Uncertainty Quantification Foundation.
All rights reserved.

This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    - Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
```

```
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-----------------------------------------------
airportsdata

 MIT License (The MIT License (MIT) Copyright (c) 2020- Mike Borsetti

 The MIT License (MIT)

Copyright (c) 2020- Mike Borsetti <mike@borsetti.com>

This project includes data from https://github.com/mwgg/Airports Copyright
(c) 2014 mwgg

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-----------------------------------------------
```

Provider: VMware / Component(s): govmomi 0.25.0

```
github.com/vmware/govmomi
-------- Copyrights
Copyright (c) 2014-2016 VMware, Inc. All Rights Reserved.
Copyright (c) 2014-2015 VMware, Inc. All Rights Reserved.
Copyright (c) 2019 VMware, Inc. All Rights Reserved.
Copyright (c) 2015 VMware, Inc. All Rights Reserved.
Copyright (c) 2016-2017 VMware, Inc. All Rights Reserved.
Copyright (c) 2015-2017 VMware, Inc. All Rights Reserved.
Copyright (c) 2020 VMware, Inc. All Rights Reserved.
```

Copyright (c) 2017 VMware, Inc. All Rights Reserved.
Copyright (c) 2014-2017 VMware, Inc. All Rights Reserved.
Copyright (c) 2014-2020 VMware, Inc. All Rights Reserved.
Copyright (c) 2016 VMware, Inc. All Rights Reserved.
Copyright (c) 2021 VMware, Inc. All Rights Reserved.
Copyright (c) 2018 VMware, Inc. All Rights Reserved.
Copyright (c) 2014-2018 VMware, Inc. All Rights Reserved.
Copyright (c) 2015-2016 VMware, Inc. All Rights Reserved.
Copyright (c) 2017-2018 VMware, Inc. All Rights Reserved.
Copyright (c) 2014 VMware, Inc. All Rights Reserved.
Copyright (c) 2015-2019 VMware, Inc. All Rights Reserved.
Copyright (c) 2015-2021 VMware, Inc. All Rights Reserved.
Copyright (c) ${YEARS} VMware, Inc. All Rights Reserved.
Copyright 2017 VMware, Inc. All Rights Reserved.
Copyright (c) 2015-2020 VMware, Inc. All Rights Reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2016-2017 VMware, Inc. All Rights Reserved.
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.

-------- License
SPDX:Apache-2.0

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

```
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
```

```
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions
    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
```

```
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/rasky/go-xdr
-------- Copyrights
Copyright (c) 2012-2014 Dave Collins
Copyright (c) 2012 Dave Collins
Copyright (c) 2014 Dave Collins
Copyright (c) 2015-2017 Giovanni Bajo

-------- Dependencies Summary
github.com/rasky/go-xdr

-------- License used by Dependencies
Copyright (c) 2012-2014 Dave Collins

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/vmware/vmw-guestinfo
-------- Copyrights
Copyright 2017 VMware, Inc. All rights reserved.
Copyright 2016-2017 VMware, Inc. All Rights Reserved.
Copyright 2016 VMware, Inc. All Rights Reserved.

-------- Dependencies Summary
github.com/vmware/vmw-guestinfo

-------- License used by Dependencies
SPDX:Apache-2.0
                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
```

```
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
```

```
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.
```

```
   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/google/uuid
-------- Copyrights
Copyright (c) 2009,2014 Google Inc. All rights reserved.
Copyright 2016 Google Inc.  All rights reserved.

-------- Dependencies Summary
github.com/google/uuid

-------- License used by Dependencies
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/a8m/tree
-------- Copyrights
Copyright (c) 2015-2017 Ariel Mashraki

-------- Dependency
github.com/dougm/pretty
-------- Copyrights
Copyright 2012 Keith Rarick

-------- Dependency
github.com/kr/text
-------- Copyrights
Copyright 2012 Keith Rarick

-------- Dependencies Summary
github.com/a8m/tree
github.com/dougm/pretty
github.com/kr/text

-------- License used by Dependencies
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

ATTRIBUTION-HELPER-GENERATED:
License file based on go.mod with md5 sum: d56a4772ac65e56b77e29a53c93d3870
```

Provider: VMware / Component(s): SockJS 1.4.0

```
Copyright (c) 2011-2012 VMware, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Fourth Party dependencies

debug v. 3.2.5
Copyright (c) 2014 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the 'Software'), to deal
 in the
Software without restriction, including without limitation the rights to
 use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies of the
 Software,
and to permit persons to whom the Software is furnished to do so, subject to
 the
following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR
 A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
 HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

eventsource v. 1.0.7
Copyright (c) EventSource GitHub organisation

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

```
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

url-parse v. 1.4.3
Copyright (c) 2015 Unshift.io, Arnout Kazemier,  the Contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

querystringify v. 2.1.0
Copyright (c) 2015 Unshift.io, Arnout Kazemier,  the Contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


requiresport v. 1.0.0
Copyright (c) 2015 Unshift.io, Arnout Kazemier,  the Contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
```

```
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


faye-websocket v. 0.11.1
Copyright (c) 2010-2017 James Coglan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the 'Software'), to deal
 in
the Software without restriction, including without limitation the rights
 to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


websocket-driver v. 0.7.0
Copyright (c) 2010-2017 James Coglan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the 'Software'), to deal
 in
the Software without restriction, including without limitation the rights
 to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
```

```
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


http-parser-js v. 0.4.9
Copyright (c) 2015 Tim Caswell (https://github.com/creationix) and other
 contributors.
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights
 to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Some files from the tests folder are from joyent/node and mscedex/io.js, a
 fork
of nodejs/io.js:

    tests/iojs/test-http-parser-durability.js

    This file is from
https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-
parser-durability.js
with modifications by Jan Schär (jscissr).

    """ Copyright io.js contributors. All rights reserved.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
```

```
of this software and associated documentation files (the "Software"), to
 deal in
the Software without restriction, including without limitation the rights
 to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 """

    tests/fixtures/* tests/parallel/* tests/testpy/* tests/common.js

tests/test.py tests/utils.py

    These files are from https://github.com/nodejs/node with changes by Jan
 Schär (jscissr).

    Node.js is licensed for use as follows:

    """ Copyright Node.js contributors. All rights reserved.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
of this software and associated documentation files (the "Software"), to
 deal in
the Software without restriction, including without limitation the rights
 to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 """
```

```
    This license applies to parts of Node.js originating from the
https://github.com/joyent/node repository:

    """ Copyright Joyent, Inc. and other Node contributors. All rights
 reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights
 to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 """

websocket-extensions v. 0.1.3
Copyright (c) 2014-2017 James Coglan

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the 'Software'), to deal
 in
the Software without restriction, including without limitation the rights
 to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
-json3 v. 3.2.2
Copyright (c) 2012-2014 Kit Cambridge.
http://kitcambridge.be/

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-url-parse v. 1.4.3
Copyright (c) 2015 Unshift.io, Arnout Kazemier,  the Contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-querystringify v. 1.0.0
Copyright (c) 2015 Unshift.io, Arnout Kazemier,  the Contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
```

```
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

-requires-port v. 1.0.0
Copyright (c) 2015 Unshift.io, Arnout Kazemier,  the Contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


ISC Licensed dependencies
-inherits v. 2.0.3
The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
 AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
```

Provider: VMware / Component(s): Virtual-disk 0.0.2

```
github.com/vmware/virtual-disks
-------- Copyrights
Copyright 2020 VMware, Inc.
Copyright 2021 VMware, Inc..
Copyright 2020 VMware, Inc.
Copyright (c) 2018-2021 the Go Library for Virtual Disk Development Kit
 contributors.
-------- Notices
Go Library for Virtual Disk Development Kit
Copyright 2020 VMware, Inc.

This product is licensed to you under the Apache 2.0 license (the
 "License").  You may not use this
product except in compliance with the Apache 2.0 License.

This product may include a number of subcomponents with separate copyright
 notices and license
terms. Your use of these subcomponents is subject to the terms and
 conditions of the subcomponent's
license, as noted in the LICENSE file.



-------- License
Go Library for Virtual Disk Development Kit
Copyright 2020 VMware, Inc.

The Apache 2.0 license (the "License") set forth below applies to all parts
 of the Go Library for
Virtual Disk Development Kit project. You may not use this file except in
 compliance with the
License.

Apache License

Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the
copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other
entities that control, are controlled by, or are under common control
with that entity. For the purposes of this definition, "control" means
(i) the power, direct or indirect, to cause the direction or management
of such entity, whether by contract or otherwise, or (ii) ownership
of fifty percent (50%) or more of the outstanding shares, or (iii)
beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation source,
```

```
and configuration files.

"Object" form shall mean any form resulting from mechanical transformation
or translation of a Source form, including but not limited to compiled
object code, generated documentation, and conversions to other media
types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a copyright
notice that is included in or attached to the work (an example is provided
in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form,
that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent,
as a whole, an original work of authorship. For the purposes of this
License, Derivative Works shall not include works that remain separable
from, or merely link (or bind by name) to the interfaces of, the Work
and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the
original version of the Work and any modifications or additions to
that Work or Derivative Works thereof, that is intentionally submitted
to Licensor for inclusion in the Work by the copyright owner or by an
individual or Legal Entity authorized to submit on behalf of the copyright
owner. For the purposes of this definition, "submitted" means any form of
electronic, verbal, or written communication sent to the Licensor or its
representatives, including but not limited to communication on electronic
mailing lists, source code control systems, and issue tracking systems
that are managed by, or on behalf of, the Licensor for the purpose of
discussing and improving the Work, but excluding communication that is
conspicuously marked or otherwise designated in writing by the copyright
owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License.
Subject to the terms and conditions of this License, each Contributor
hereby grants to You a perpetual, worldwide, non-exclusive, no-charge,
royalty-free, irrevocable copyright license to reproduce, prepare
Derivative Works of, publicly display, publicly perform, sublicense, and
distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.
Subject to the terms and conditions of this License, each Contributor
hereby grants to You a perpetual, worldwide, non-exclusive, no-charge,
royalty- free, irrevocable (except as stated in this section) patent
license to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to those
patent claims licensable by such Contributor that are necessarily
infringed by their Contribution(s) alone or by combination of
their Contribution(s) with the Work to which such Contribution(s)
was submitted. If You institute patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Work or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses granted
to You under this License for that Work shall terminate as of the date
such litigation is filed.

4. Redistribution.
You may reproduce and distribute copies of the Work or Derivative Works
thereof in any medium, with or without modifications, and in Source or
```

```
Object form, provided that You meet the following conditions:

  a. You must give any other recipients of the Work or Derivative Works
     a copy of this License; and

  b. You must cause any modified files to carry prominent notices stating
     that You changed the files; and

  c. You must retain, in the Source form of any Derivative Works that
     You distribute, all copyright, patent, trademark, and attribution
     notices from the Source form of the Work, excluding those notices
     that do not pertain to any part of the Derivative Works; and

  d. If the Work includes a "NOTICE" text file as part of its
     distribution, then any Derivative Works that You distribute must
     include a readable copy of the attribution notices contained
     within such NOTICE file, excluding those notices that do not
     pertain to any part of the Derivative Works, in at least one of
     the following places: within a NOTICE text file distributed as part
     of the Derivative Works; within the Source form or documentation,
     if provided along with the Derivative Works; or, within a display
     generated by the Derivative Works, if and wherever such third-party
     notices normally appear. The contents of the NOTICE file are for
     informational purposes only and do not modify the License. You
     may add Your own attribution notices within Derivative Works that
     You distribute, alongside or as an addendum to the NOTICE text
     from the Work, provided that such additional attribution notices
     cannot be construed as modifying the License.  You may add Your own
     copyright statement to Your modifications and may provide additional
     or different license terms and conditions for use, reproduction, or
     distribution of Your modifications, or for any such Derivative Works
     as a whole, provided Your use, reproduction, and distribution of the
     Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.
Unless You explicitly state otherwise, any Contribution intentionally
submitted for inclusion in the Work by You to the Licensor shall be
under the terms and conditions of this License, without any additional
terms or conditions.  Notwithstanding the above, nothing herein shall
supersede or modify the terms of any separate license agreement you may
have executed with Licensor regarding such Contributions.

6. Trademarks.
This License does not grant permission to use the trade names, trademarks,
service marks, or product names of the Licensor, except as required for
reasonable and customary use in describing the origin of the Work and
reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.
Unless required by applicable law or agreed to in writing, Licensor
provides the Work (and each Contributor provides its Contributions) on
an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express or implied, including, without limitation, any warranties or
conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR
A PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any risks
associated with Your exercise of permissions under this License.

8. Limitation of Liability.
In no event and under no legal theory, whether in tort (including
negligence), contract, or otherwise, unless required by applicable law
(such as deliberate and grossly negligent acts) or agreed to in writing,
shall any Contributor be liable to You for damages, including any direct,
indirect, special, incidental, or consequential damages of any character
```

```
arising as a result of this License or out of the use or inability to
use the Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all other
commercial damages or losses), even if such Contributor has been advised
of the possibility of such damages.

9. Accepting Warranty or Additional Liability.
While redistributing the Work or Derivative Works thereof, You may
choose to offer, and charge a fee for, acceptance of support, warranty,
indemnity, or other liability obligations and/or rights consistent with
this License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf of
any other Contributor, and only if You agree to indemnify, defend, and
hold each Contributor harmless for any liability incurred by, or claims
asserted against, such Contributor by reason of your accepting any such
warranty or additional liability.

END OF TERMS AND CONDITIONS




----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/pkg/errors
-------- Copyrights
Copyright (c) 2015, Dave Cheney

-------- Dependencies Summary
github.com/pkg/errors

-------- License used by Dependencies
Copyright (c) 2015, Dave Cheney
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------- Dependencies Grouped by License ------------
-------- Dependency
golang.org/x/sys
```

```
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.


-------- Dependencies Summary
golang.org/x/sys

-------- License used by Dependencies
SPDX:BSD-3-Clause--modified-by-Google
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------- Dependencies Grouped by License ------------
-------- Dependency
github.com/sirupsen/logrus
-------- Copyrights
Copyright (c) 2014 Simon Eskildsen
Copyright (c) 2012 Miki Tebeka .

-------- Dependencies Summary
github.com/sirupsen/logrus

-------- License used by Dependencies
SPDX:MIT
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
 without
limitation the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to permit persons to
 whom
the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Vojta Jina / Component(s): grunt-bump 37f9893

```
The MIT License (MIT)

Copyright (c) 2014 Vojta Jína

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
```

Provider: WAKAYAMA Shirou / Component(s): gopsutil 3.22.5

```
github.com/shirou/gopsutil/v3
-------- Copyrights
Copyright (c) 2014, WAKAYAMA Shirou
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright (c) 1992-2016 The FreeBSD Project.
Copyright (c) 1992-2011 The FreeBSD Project.
Copyright 2009 The Go Authors.  All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.

-------- License
gopsutil is distributed under BSD license reproduced below.

Copyright (c) 2014, WAKAYAMA Shirou
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.
 * Neither the name of the gopsutil authors nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------
internal/common/binary.go in the gopsutil is copied and modified from
 golang/encoding/binary.go.
```

```
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------- Dependency
golang.org/x/sys
-------- Copyrights
Copyright (c) 2009 The Go Authors. All rights reserved.
Copyright 2019 The Go Authors. All rights reserved.
Copyright 2018 The Go Authors. All rights reserved.
Copyright 2020 The Go Authors. All rights reserved.
Copyright 2011 The Go Authors. All rights reserved.
Copyright 2012 The Go Authors. All rights reserved.
Copyright 2015 The Go Authors. All rights reserved.
Copyright 2013 The Go Authors. All rights reserved.
Copyright 2009 The Go Authors. All rights reserved.
Copyright 2016 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All rights reserved.
Copyright 2010 The Go Authors. All rights reserved.
Copyright 2014 The Go Authors. All rights reserved.
Copyright 2021 The Go Authors. All rights reserved.
Copyright 2022 The Go Authors. All rights reserved.
Copyright 2009,2010 The Go Authors. All rights reserved.
Copyright 2017 The Go Authors. All right reserved.
-------- Patents
Additional IP Rights Grant (Patents)

"This implementation" means the copyrightable works distributed by
Google as part of the Go project.

Google hereby grants to You a perpetual, worldwide, non-exclusive,
no-charge, royalty-free, irrevocable (except as stated in this section)
patent license to make, have made, use, offer to sell, sell, import,
transfer and otherwise run, modify and propagate the contents of this
implementation of Go, where such license applies only to those patent
claims, both currently owned or controlled by Google and acquired in
the future, licensable by Google that are necessarily infringed by this
implementation of Go.  This grant does not include claims that would be
infringed only as a consequence of further modification of this
implementation.  If you or your agent or exclusive licensee institute or
```

```
order or agree to the institution of patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging
that this implementation of Go or any code incorporated within this
implementation of Go constitutes direct or contributory patent
infringement, or inducement of patent infringement, then any patent
rights granted to you under this License for this implementation of Go
shall terminate as of the date such litigation is filed.

-------- License used by Dependency
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------- Dependency
github.com/tklauser/go-sysconf
-------- Copyrights
Copyright (c) 2018-2021, Tobias Klauser
Copyright 2018 Tobias Klauser. All rights reserved.
Copyright 2021 Tobias Klauser. All rights reserved.
Copyright 2022 Tobias Klauser. All rights reserved.

-------- License used by Dependency
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------- Dependency
github.com/google/go-cmp
-------- Copyrights
Copyright 2017, The Go Authors. All rights reserved.
Copyright 2019, The Go Authors. All rights reserved.
Copyright 2020, The Go Authors. All rights reserved.
Copyright 2018, The Go Authors. All rights reserved.
Copyright (c) 2017 The Go Authors. All rights reserved.

-------- License used by Dependency
Redistribution and use in source and binary forms, with
or without modification, are permitted provided that the following
 conditions
are met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------- Dependency
github.com/lufia/plan9stats
-------- Copyrights
Copyright (c) 2019, KADOTA, Kyohei

-------- License used by Dependency
Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
```

```
1. Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
 contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------- Dependency
github.com/yusufpapurcu/wmi
-------- Copyrights
Copyright (c) 2013 Stack Exchange

-------- License used by Dependency
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

-------- Dependency
github.com/lufia/plan9stats
```

```
-------- Copyrights
Copyright (c) 2020 Power DevOps

-------- License used by Dependency
Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: X.Org Foundation / Component(s): xf86-video-dummy 0.4.1

```
xf86-video-dummy

Copyright 2002, SuSE Linux AG, Author: Egbert Eich

MIT License
Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
```

Provider: Yarn Contributors / Component(s): yarn 1.22.10

```
BSD 2-Clause License
```

```
For Yarn software

Copyright (c) 2016-present, Yarn Contributors. All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
 this list of
conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
 this list of
conditions and the following disclaimer in the documentation and/or other
 materials
provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
 OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Yehuda Katz / Component(s): es6-promise 4.2.6

```
URL for License - https://github.com/stefanpenner/es6-promise/blob/master/
LICENSE

Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors

LICENSE NAME: MIT

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NON INFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
--------------------------------------------------------------------------------
```

```
Note - The component has NO 4th party components.
```

Provider: YOOtheme GmbH / Component(s): uikit 3.0.0-rc.4

```
url for license: https://github.com/uikit/uikit/blob/v3.0.0-rc.4/LICENSE.md

Copyright (c) 2013-2018 YOOtheme GmbH, getuikit.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.
```

Provider: Yukihiro Matsumoto / Component(s): irb 1.3.3

```
Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
```

Provider: Yukihiro Matsumoto / Component(s): reline 0.2.3

```
reline 0.2.3

The gem is available as open source under the terms of the Ruby License.

https://github.com/ruby/reline/blob/master/COPYING:

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>.
```

```
You can redistribute it and/or modify it under either the terms of the
2-clause BSDL (see the file BSDL), or the conditions below:
  1. You may make and give away verbatim copies of the source form of the
     software without restriction, provided that you duplicate all of the
     original copyright notices and associated disclaimers.
  2. You may modify your copy of the software in any way, provided that
     you do at least ONE of the following:
       a) place your modifications in the Public Domain or otherwise
          make them Freely Available, such as by posting said
   modifications to Usenet or an equivalent medium, or by allowing
   the author to include your modifications in the software.
       b) use the modified software only within your corporation or
          organization.
       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.
       d) make other distribution arrangements with the author.
  3. You may distribute the software in object code or binary form,
     provided that you do at least ONE of the following:
       a) distribute the binaries and library files of the software,
   together with instructions (in the manual page or equivalent)
   on where to get the original distribution.
       b) accompany the distribution with the machine-readable source of
   the software.
       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.
       d) make other distribution arrangements with the author.
  4. You may modify and include the part of the software into any other
     software (possibly commercial).  But some files in the distribution
     are not written by the author, so that they are not under these terms.
     For the list of those files and their copying conditions, see the
     file LEGAL.
  5. The scripts and library files supplied as input to or produced as
     output from the software do not automatically fall under the
     copyright of the software, but belong to whomever generated them,
     and may be sold commercially, and may be aggregated with this
     software.
  6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
     IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
     WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
     PURPOSE.

--------------------------------------------------------------------------------
https://github.com/ruby/reline/blob/master/BSDL

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
```

```
-----------------------------------------------------------------------------
In developing Reline, we have used some of the rb-readline implementation,
 so this library includes copyright notice, list of conditions and
 the disclaimer under the 3-Clause BSD License. Reline would never
 have been developed without rb-readline. Thank you for the tremendous
 accomplishments.

https://github.com/ruby/reline/blob/master/license_of_rb-readline:

Copyright (c) 2009, Park Heesob
All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of Park Heesob nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Provider: Yukihiro Matsumoto / Component(s): Ruby 2.6.6

```
According to Ruby's license terms, Ruby version 2.6.5 is licensed under a
 dual license.  Oracle elects the 2-clause BSD license.

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>.
You can redistribute it and/or modify it under either the terms of the
2-clause BSDL:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
```

```
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.


Or the conditions below:

  1. You may make and give away verbatim copies of the source form of the
     software without restriction, provided that you duplicate all of the
     original copyright notices and associated disclaimers.

  2. You may modify your copy of the software in any way, provided that
     you do at least ONE of the following:

       a) place your modifications in the Public Domain or otherwise
          make them Freely Available, such as by posting said
    modifications to Usenet or an equivalent medium, or by allowing
    the author to include your modifications in the software.

       b) use the modified software only within your corporation or
          organization.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.

  3. You may distribute the software in object code or binary form,
     provided that you do at least ONE of the following:

       a) distribute the binaries and library files of the software,
    together with instructions (in the manual page or equivalent)
    on where to get the original distribution.

       b) accompany the distribution with the machine-readable source of
    the software.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.

  4. You may modify and include the part of the software into any other
     software (possibly commercial).  But some files in the distribution
     are not written by the author, so that they are not under these terms.

     For the list of those files and their copying conditions, see below.

  5. The scripts and library files supplied as input to or produced as
     output from the software do not automatically fall under the
     copyright of the software, but belong to whomever generated them,
     and may be sold commercially, and may be aggregated with this
     software.

  6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
     IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
     WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
     PURPOSE.


LEGAL NOTICE INFORMATION
------------------------
```

```
All the files in this distribution are covered under either the Ruby's
license (see the file COPYING) or public-domain except some files
mentioned below.

ccan/build_assert/build_assert.h:
ccan/check_type/check_type.h:
ccan/container_of/container_of.h:
ccan/str/str.h:

  These files are licensed under the CC0.

    https://creativecommons.org/choose/zero/

-------------------------------------------
Creative Commons Legal Code

CC0 1.0 Universal

    CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
    LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN
    ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS
    INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES
    REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS
    PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM
    THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED
    HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
exclusive Copyright and Related Rights (defined below) upon the creator
and subsequent owner(s) (each and all, an "owner") of an original work of
authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for
the purpose of contributing to a commons of creative, cultural and
scientific works ("Commons") that the public can reliably and without fear
of later claims of infringement build upon, modify, incorporate in other
works, reuse and redistribute as freely as possible in any form whatsoever
and for any purposes, including without limitation commercial purposes.
These owners may contribute to the Commons to promote the ideal of a free
culture and the further production of creative, cultural and scientific
works, or to gain reputation or greater distribution for their Work in
part through the use and efforts of others.

For these and/or other purposes and motivations, and without any
expectation of additional consideration or compensation, the person
associating CC0 with a Work (the "Affirmer"), to the extent that he or she
is an owner of Copyright and Related Rights in the Work, voluntarily
elects to apply CC0 to the Work and publicly distribute the Work under its
terms, with knowledge of his or her Copyright and Related Rights in the
Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
protected by copyright and related or neighboring rights ("Copyright and
Related Rights"). Copyright and Related Rights include, but are not
limited to, the following:

  i. the right to reproduce, adapt, distribute, perform, display,
     communicate, and translate a Work;
 ii. moral rights retained by the original author(s) and/or performer(s);
iii. publicity and privacy rights pertaining to a person's image or
     likeness depicted in a Work;
```

```
 iv. rights protecting against unfair competition in regards to a Work,
     subject to the limitations in paragraph 4(a), below;
  v. rights protecting the extraction, dissemination, use and reuse of data
     in a Work;
 vi. database rights (such as those arising under Directive 96/9/EC of the
     European Parliament and of the Council of 11 March 1996 on the legal
     protection of databases, and under any national implementation
     thereof, including any amended or successor version of such
     directive); and
vii. other similar, equivalent or corresponding rights throughout the
     world based on applicable law or treaty, and any national
     implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention
of, applicable law, Affirmer hereby overtly, fully, permanently,
irrevocably and unconditionally waives, abandons, and surrenders all of
Affirmer's Copyright and Related Rights and associated claims and causes
of action, whether now known or unknown (including existing as well as
future claims and causes of action), in the Work (i) in all territories
worldwide, (ii) for the maximum duration provided by applicable law or
treaty (including future time extensions), (iii) in any current or future
medium and for any number of copies, and (iv) for any purpose whatsoever,
including without limitation commercial, advertising or promotional
purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each
member of the public at large and to the detriment of Affirmer's heirs and
successors, fully intending that such Waiver shall not be subject to
revocation, rescission, cancellation, termination, or any other legal or
equitable action to disrupt the quiet enjoyment of the Work by the public
as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
be judged legally invalid or ineffective under applicable law, then the
Waiver shall be preserved to the maximum extent permitted taking into
account Affirmer's express Statement of Purpose. In addition, to the
extent the Waiver is so judged Affirmer hereby grants to each affected
person a royalty-free, non transferable, non sublicensable, non exclusive,
irrevocable and unconditional license to exercise Affirmer's Copyright and
Related Rights in the Work (i) in all territories worldwide, (ii) for the
maximum duration provided by applicable law or treaty (including future
time extensions), (iii) in any current or future medium and for any number
of copies, and (iv) for any purpose whatsoever, including without
limitation commercial, advertising or promotional purposes (the
"License"). The License shall be deemed effective as of the date CC0 was
applied by Affirmer to the Work. Should any part of the License for any
reason be judged legally invalid or ineffective under applicable law, such
partial invalidity or ineffectiveness shall not invalidate the remainder
of the License, and in such case Affirmer hereby affirms that he or she
will not (i) exercise any of his or her remaining Copyright and Related
Rights in the Work or (ii) assert any associated claims and causes of
action with respect to the Work, in either case contrary to Affirmer's
express Statement of Purpose.

4. Limitations and Disclaimers.

 a. No trademark or patent rights held by Affirmer are waived, abandoned,
    surrendered, licensed or otherwise affected by this document.
 b. Affirmer offers the Work as-is and makes no representations or
    warranties of any kind concerning the Work, express, implied,
    statutory or otherwise, including without limitation warranties of
    title, merchantability, fitness for a particular purpose, non
    infringement, or the absence of latent or other defects, accuracy, or
    the present or absence of errors, whether or not discoverable, all to
    the greatest extent permissible under applicable law.
 c. Affirmer disclaims responsibility for clearing rights of other persons
```

```
    that may apply to the Work or any use thereof, including without
    limitation any person's Copyright and Related Rights in the Work.
    Further, Affirmer disclaims responsibility for obtaining any necessary
    consents, permissions or other rights required for any use of the
    Work.
 d. Affirmer understands and acknowledges that Creative Commons is not a
    party to this document and has no duty or obligation with respect to
    this CC0 or use of the Work.

----------------------------------------
ccan/list/list.h:

  This file is licensed under the MIT License.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.

include/ruby/onigmo.h:
include/ruby/oniguruma.h:
regcomp.c:
regenc.c:
regenc.h:
regerror.c:
regexec.c:
regint.h:
regparse.c:
regparse.h:
enc/ascii.c:
enc/big5.c:
enc/cp949.c:
enc/emacs_mule.c:
enc/encdb.c:
enc/euc_jp.c:
enc/euc_kr.c:
enc/euc_tw.c:
enc/gb18030.c:
enc/gb2312.c:
enc/gbk.c:
enc/iso_8859_1.c:
enc/iso_8859_10.c:
```

```
enc/iso_8859_11.c:
enc/iso_8859_13.c:
enc/iso_8859_14.c:
enc/iso_8859_15.c:
enc/iso_8859_16.c:
enc/iso_8859_2.c:
enc/iso_8859_3.c:
enc/iso_8859_4.c:
enc/iso_8859_5.c:
enc/iso_8859_6.c:
enc/iso_8859_7.c:
enc/iso_8859_8.c:
enc/iso_8859_9.c:
enc/koi8_r.c:
enc/koi8_u.c:
enc/shift_jis.c:
enc/unicode.c:
enc/us_ascii.c:
enc/utf_16be.c:
enc/utf_16le.c:
enc/utf_32be.c:
enc/utf_32le.c:
enc/utf_8.c:
enc/windows_1251.c:

  Onigmo (Oniguruma-mod) LICENSE

    Copyright (c) 2002-2009  K.Kosako  <sndgk393 AT ybb DOT ne DOT jp>
    Copyright (c) 2011-2014  K.Takata  <kentkt AT csc DOT jp>
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

  Oniguruma LICENSE

    Copyright (c) 2002-2009  K.Kosako  <sndgk393 AT ybb DOT ne DOT jp>
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
```

```
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

  * https://github.com/k-takata/Onigmo/
  * https://github.com/kkos/oniguruma
  * https://svnweb.freebsd.org/ports/head/devel/oniguruma/

    When this software is partly used or it is distributed with Ruby,
    this of Ruby follows the license of Ruby.

enc/trans/GB/GB12345%UCS.src:
enc/trans/GB/UCS%GB12345.src:
enc/trans/GB/GB2312%UCS.src:
enc/trans/GB/UCS%GB2312.src:

  These files have this explanatory texts.

    This mapping data was created from files provided by Unicode, Inc.
    (The Unicode Consortium). The files were used to create a product
 supporting
    Unicode, as explicitly permitted in the files' copyright notices.
    Please note that Unicode, Inc. never made any claims as to fitness of
 these
    files for any particular purpose, and has ceased to publish the files
 many
    years ago.

enc/trans/JIS/JISX0201-KANA%UCS.src:
enc/trans/JIS/JISX0208@1990%UCS.src:
enc/trans/JIS/JISX0212%UCS.src:
enc/trans/JIS/UCS%JISX0201-KANA.src:
enc/trans/JIS/UCS%JISX0208@1990.src:
enc/trans/JIS/UCS%JISX0212.src:

  These files are copyrighted as the following.

    © 2015 Unicode®, Inc.
    For terms of use, see http://www.unicode.org/terms_of_use.html

enc/trans/JIS/JISX0213-1%UCS@BMP.src:
enc/trans/JIS/JISX0213-1%UCS@SIP.src:
enc/trans/JIS/JISX0213-2%UCS@BMP.src:
enc/trans/JIS/JISX0213-2%UCS@SIP.src:

  These files are copyrighted as the following.
```

```
    Copyright (C) 2001 earthian@tama.or.jp, All Rights Reserved.
    Copyright (C) 2001 I'O, All Rights Reserved.
    Copyright (C) 2006 Project X0213, All Rights Reserved.
    You can use, modify, distribute this table freely.

enc/trans/JIS/UCS@BMP%JISX0213-1.src:
enc/trans/JIS/UCS@BMP%JISX0213-2.src:
enc/trans/JIS/UCS@SIP%JISX0213-1.src:
enc/trans/JIS/UCS@SIP%JISX0213-2.src:

  These files are copyrighted as the following.

    Copyright (C) 2001 earthian@tama.or.jp, All Rights Reserved.
    Copyright (C) 2001 I'O, All Rights Reserved.
    You can use, modify, distribute this table freely.

parse.c:

  This file is licensed under the GPL, but is incorporated into Ruby and
  redistributed under the terms of the Ruby license, as permitted by the
  exception to the GPL below.

    Copyright (C) 1984, 1989-1990, 2000-2015, 2018 Free Software Foundation,
 Inc.

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

    As a special exception, you may create a larger work that contains
    part or all of the Bison parser skeleton and distribute that work
    under terms of your choice, so long as that work isn't itself a
    parser generator using the skeleton or a modified version thereof
    as a parser skeleton.  Alternatively, if you modify or redistribute
    the parser skeleton itself, you may (at your option) remove this
    special exception, which will cause the skeleton and the resulting
    Bison output files to be licensed under the GNU General Public
    License without this special exception.

    This special exception was added by the Free Software Foundation in
    version 2.2 of Bison.

util.c (partly):

  This file contains the source code under these licenses.

    Copyright (c) 1991, 2000, 2001 by Lucent Technologies.

    Permission to use, copy, modify, and distribute this software for any
    purpose without fee is hereby granted, provided that this entire notice
    is included in all copies of any software which is or includes a copy
    or modification of this software and in all copies of the supporting
    documentation for such software.
```

```
    THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
    WARRANTY.  IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY
    REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
    OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.


    Copyright (c) 2004-2008 David Schultz <das@FreeBSD.ORG>
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

win32/win32.[ch]:

  You can apply the Artistic License to these files. (or GPL,
  alternatively)

    Copyright (c) 1993, Intergraph Corporation

    You may distribute under the terms of either the GNU General Public
    License or the Artistic License, as specified in the perl README file.

----------------------------------------

                        The Artistic License 2.0

            Copyright (c) 2000-2006, The Perl Foundation.

     Everyone is permitted to copy and distribute verbatim copies
      of this license document, but changing it is not allowed.

Preamble

This license establishes the terms under which a given free software
Package may be copied, modified, distributed, and/or redistributed.
The intent is that the Copyright Holder maintains some artistic
control over the development of that Package while still keeping the
Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this
license directly with the Copyright Holder of a given Package.  If the
terms of this license do not permit the full use that you propose to
```

```
make of the Package, you should contact the Copyright Holder and seek
a different licensing arrangement.

Definitions

    "Copyright Holder" means the individual(s) or organization(s)
    named in the copyright notice for the entire Package.

    "Contributor" means any party that has contributed code or other
    material to the Package, in accordance with the Copyright Holder's
    procedures.

    "You" and "your" means any person who would like to copy,
    distribute, or modify the Package.

    "Package" means the collection of files distributed by the
    Copyright Holder, and derivatives of that collection and/or of
    those files. A given Package may consist of either the Standard
    Version, or a Modified Version.

    "Distribute" means providing a copy of the Package or making it
    accessible to anyone else, or in the case of a company or
    organization, to others outside of your company or organization.

    "Distributor Fee" means any fee that you charge for Distributing
    this Package or providing support for this Package to another
    party.  It does not mean licensing fees.

    "Standard Version" refers to the Package if it has not been
    modified, or has been modified only in ways explicitly requested
    by the Copyright Holder.

    "Modified Version" means the Package, if it has been changed, and
    such changes were not explicitly requested by the Copyright
    Holder.

    "Original License" means this Artistic License as Distributed with
    the Standard Version of the Package, in its current version or as
    it may be modified by The Perl Foundation in the future.

    "Source" form means the source code, documentation source, and
    configuration files for the Package.

    "Compiled" form means the compiled bytecode, object code, binary,
    or any other form resulting from mechanical transformation or
    translation of the Source form.


Permission for Use and Modification Without Distribution

(1)  You are permitted to use the Standard Version and create and use
Modified Versions for any purpose without restriction, provided that
you do not Distribute the Modified Version.


Permissions for Redistribution of the Standard Version

(2)  You may Distribute verbatim copies of the Source form of the
Standard Version of this Package in any medium without restriction,
either gratis or for a Distributor Fee, provided that you duplicate
all of the original copyright notices and associated disclaimers.  At
your discretion, such verbatim copies may or may not include a
Compiled form of the Package.
```

```
(3)  You may apply any bug fixes, portability changes, and other
modifications made available from the Copyright Holder.  The resulting
Package will still be considered the Standard Version, and as such
will be subject to the Original License.


Distribution of Modified Versions of the Package as Source

(4)  You may Distribute your Modified Version as Source (either gratis
or for a Distributor Fee, and with or without a Compiled form of the
Modified Version) provided that you clearly document how it differs
from the Standard Version, including, but not limited to, documenting
any non-standard features, executables, or modules, and provided that
you do at least ONE of the following:

    (a)  make the Modified Version available to the Copyright Holder
    of the Standard Version, under the Original License, so that the
    Copyright Holder may include your modifications in the Standard
    Version.

    (b)  ensure that installation of your Modified Version does not
    prevent the user installing or running the Standard Version. In
    addition, the Modified Version must bear a name that is different
    from the name of the Standard Version.

    (c)  allow anyone who receives a copy of the Modified Version to
    make the Source form of the Modified Version available to others
    under

  (i)  the Original License or

  (ii)  a license that permits the licensee to freely copy,
  modify and redistribute the Modified Version using the same
  licensing terms that apply to the copy that the licensee
  received, and requires that the Source form of the Modified
  Version, and of any works derived from it, be made freely
  available in that license fees are prohibited but Distributor
  Fees are allowed.


Distribution of Compiled Forms of the Standard Version
or Modified Versions without the Source

(5)  You may Distribute Compiled forms of the Standard Version without
the Source, provided that you include complete instructions on how to
get the Source of the Standard Version.  Such instructions must be
valid at the time of your distribution.  If these instructions, at any
time while you are carrying out such distribution, become invalid, you
must provide new instructions on demand or cease further distribution.
If you provide valid instructions or cease distribution within thirty
days after you become aware that the instructions are invalid, then
you do not forfeit any of your rights under this license.

(6)  You may Distribute a Modified Version in Compiled form without
the Source, provided that you comply with Section 4 with respect to
the Source of the Modified Version.


Aggregating or Linking the Package

(7)  You may aggregate the Package (either the Standard Version or
Modified Version) with other packages and Distribute the resulting
aggregation provided that you do not charge a licensing fee for the
Package.  Distributor Fees are permitted, and licensing fees for other
```

```
components in the aggregation are permitted. The terms of this license
apply to the use and Distribution of the Standard or Modified Versions
as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with
other works, to embed the Package in a larger work of your own, or to
build stand-alone binary or bytecode versions of applications that
include the Package, and Distribute the result without restriction,
provided the result does not expose a direct interface to the Package.


Items That are Not Considered Part of a Modified Version

(9) Works (including, but not limited to, modules and scripts) that
merely extend or make use of the Package, do not, by themselves, cause
the Package to be a Modified Version.  In addition, such works are not
considered parts of the Package itself, and are not subject to the
terms of this license.


General Provisions

(10)  Any use, modification, and distribution of the Standard or
Modified Versions is governed by this Artistic License. By using,
modifying or distributing the Package, you accept this license. Do not
use, modify, or distribute the Package, if you do not accept this
license.

(11)  If your Modified Version has been derived from a Modified
Version made by someone other than you, you are nevertheless required
to ensure that your Modified Version complies with the requirements of
this license.

(12)  This license does not grant you the right to use any trademark,
service mark, tradename, or logo of the Copyright Holder.

(13)  This license includes the non-exclusive, worldwide,
free-of-charge patent license to make, have made, use, offer to sell,
sell, import and otherwise transfer the Package with respect to any
patent claims licensable by the Copyright Holder that are necessarily
infringed by the Package. If you institute patent litigation
(including a cross-claim or counterclaim) against any party alleging
that the Package constitutes direct or contributory patent
infringement, then this Artistic License to you shall terminate on the
date that such litigation is filed.

(14)  Disclaimer of Warranty:
THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS
IS' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL
LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL
DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------

random.c:

  This file contains the source code under the new-style BSD license.

    A C-program for MT19937, with initialization improved 2002/2/10.
    Coded by Takuji Nishimura and Makoto Matsumoto.
```

```
    This is a faster version by taking Shawn Cokus's optimization,
    Matthe Bellew's simplification, Isaku Wada's real version.

    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).

    Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. The names of its contributors may not be used to endorse or promote
       products derived from this software without specific prior written
       permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR
    CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


    Any feedback is very welcome.
    http://www.math.keio.ac.jp/matumoto/emt.html
    email: matumoto@math.keio.ac.jp

  The Wayback Machine url: http://web.archive.org/web/19990429082237/http://
www.math.keio.ac.jp/matumoto/emt.html

vm_dump.c:procstat_vm:

  This file contains the source code under the new-style BSD license.

    Copyright (c) 2007 Robert N. M. Watson
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

    $FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11
 21:57:37Z jhb $

vsnprintf.c:

  This file is under the old-style BSD license.  Note that the
  paragraph 3 below is now null and void.

    Copyright (c) 1990, 1993
    The Regents of the University of California.  All rights reserved.

    This code is derived from software contributed to Berkeley by
    Chris Torek.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the University nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

    IMPORTANT NOTE:
    --------------
    From ftp://ftp.cs.berkeley.edu/pub/4bsd/README.Impt.License.Change
    paragraph 3 above is now null and void.

st.c:
strftime.c:
include/ruby/st.h:
```

```
missing/acosh.c:
missing/alloca.c:
missing/dup2.c:
missing/erf.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strerror.c:
missing/strstr.c:
missing/tgamma.c:
ext/date/date_strftime.c:
ext/digest/sha1/sha1.c:
ext/digest/sha1/sha1.h:
ext/sdbm/_sdbm.c:
ext/sdbm/sdbm.h:

  These files are all under public domain.

missing/crypt.c:

  This file is under the old-style BSD license.  Note that the
  paragraph 3 below is now null and void.

    Copyright (c) 1989, 1993
    The Regents of the University of California.  All rights reserved.

    This code is derived from software contributed to Berkeley by
    Tom Truscott.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the University nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

missing/setproctitle.c:
```

```
  This file is under the old-style BSD license.  Note that the
  paragraph 3 below is now null and void.

    Copyright 2003 Damien Miller
    Copyright (c) 1983, 1995-1997 Eric P. Allman
    Copyright (c) 1988, 1993
    The Regents of the University of California.  All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the University nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

missing/strlcat.c:
missing/strlcpy.c:

  These files are under an ISC-style license.

    Copyright (c) 1998, 2015 Todd C. Miller <Todd.Miller@courtesan.com>

    Permission to use, copy, modify, and distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
    OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

missing/langinfo.c:

  This file is from http://www.cl.cam.ac.uk/~mgk25/ucs/langinfo.c.
  Ruby uses a modified version. The file contains the following
  author/copyright notice:

    Markus.Kuhn@cl.cam.ac.uk -- 2002-03-11
    Permission to use, copy, modify, and distribute this software
    for any purpose and without fee is hereby granted. The author
```

```
    disclaims all warranties with regard to this software.

ext/digest/md5/md5.c:
ext/digest/md5/md5.h:

  These files are under the following license.  Ruby uses modified
  versions of them.

    Copyright (C) 1999, 2000 Aladdin Enterprises.  All rights reserved.

    This software is provided 'as-is', without any express or implied
    warranty.  In no event will the authors be held liable for any damages
    arising from the use of this software.

    Permission is granted to anyone to use this software for any purpose,
    including commercial applications, and to alter it and redistribute it
    freely, subject to the following restrictions:

    1. The origin of this software must not be misrepresented; you must not
       claim that you wrote the original software. If you use this software
       in a product, an acknowledgment in the product documentation would be
       appreciated but is not required.
    2. Altered source versions must be plainly marked as such, and must not
 be
       misrepresented as being the original software.
    3. This notice may not be removed or altered from any source
 distribution.

    L. Peter Deutsch
    ghost@aladdin.com

ext/digest/rmd160/rmd160.c:
ext/digest/rmd160/rmd160.h:

  These files have the following copyright information, and by the
  author we are allowed to use it under the new-style BSD license.

    AUTHOR::  Antoon Bosselaers, ESAT-COSIC
              (Arranged for libc by Todd C. Miller)
    DATE::    1 March 1996

    Copyright (c) Katholieke Universiteit Leuven
    1996, All Rights Reserved

ext/digest/sha2/sha2.c:
ext/digest/sha2/sha2.h:

  These files are under the new-style BSD license.

    Copyright 2000 Aaron D. Gifford.  All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the copyright holder nor the names of
 contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.
```

```
    THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) AND CONTRIBUTOR(S) ``AS IS''
 AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR(S) OR CONTRIBUTOR(S) BE
 LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

ext/json/generator/generator.c:

  The file contains the following copyright notice.

    Copyright 2001-2004 Unicode, Inc.

    Disclaimer::

      This source code is provided as is by Unicode, Inc. No claims are
      made as to fitness for any particular purpose. No warranties of any
      kind are expressed or implied. The recipient agrees to determine
      applicability of information provided. If this file has been
      purchased on magnetic or optical media from Unicode, Inc., the
      sole remedy for any claim will be exchange of defective media
      within 90 days of receipt.

    Limitations on Rights to Redistribute This Code::

      Unicode, Inc. hereby grants the right to freely use the information
      supplied in this file in the creation of products supporting the
      Unicode Standard, and to make copies of this file in any form
      for internal or external distribution as long as this notice
      remains attached.

ext/nkf/nkf-utf8/config.h:
ext/nkf/nkf-utf8/nkf.c:
ext/nkf/nkf-utf8/utf8tbl.c:

  These files are under the following license.  So to speak, it is
  copyrighted semi-public-domain software.

    Copyright (C) 1987, Fujitsu LTD. (Itaru ICHIKAWA)

    Everyone is permitted to do anything on this program
    including copying, modifying, improving,
    as long as you don't try to pretend that you wrote it.
    i.e., the above copyright notice has to appear in all copies.
    Binary distribution requires original version messages.
    You don't have to ask before copying, redistribution or publishing.
    THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE.

ext/psych:
test/psych:

  The files under these directories are under the following license, except
 for
```

```
  ext/psych/yaml.

    Copyright 2009 Aaron Patterson, et al.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy of
    this software and associated documentation files (the 'Software'), to
 deal in
    the Software without restriction, including without limitation the
 rights to
    use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
    of the Software, and to permit persons to whom the Software is furnished
 to do
    so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE.

ext/psych/yaml:

  The files under this directory are under the following license.

    Copyright (c) 2006 Kirill Simonov

    Permission is hereby granted, free of charge, to any person obtaining a
 copy of
    this software and associated documentation files (the "Software"), to
 deal in
    the Software without restriction, including without limitation the
 rights to
    use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
    of the Software, and to permit persons to whom the Software is furnished
 to do
    so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
```

```
    SOFTWARE.

ext/socket/addrinfo.h:
ext/socket/getaddrinfo.c:
ext/socket/getnameinfo.c:

  These files are under the new-style BSD license.

    Copyright (C) 1995, 1996, 1997, 1998, and 1999 WIDE Project.
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the project nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

ext/win32ole/win32ole.c:

  You can apply the Artistic License to this file. (or GPL,
  alternatively)

    (c) 1995 Microsoft Corporation. All rights reserved.
    Developed by ActiveWare Internet Corp., http://www.ActiveWare.com

    Other modifications Copyright (c) 1997, 1998 by Gurusamy Sarathy
    <gsar@umich.edu> and Jan Dubois <jan.dubois@ibm.net>

    You may distribute under the terms of either the GNU General Public
    License or the Artistic License, as specified in the README file
    of the Perl distribution.

  The Wayback Machine url: http://web.archive.org/web/19970607104352/http://
www.activeware.com:80/

lib/rdoc/generator/template/darkfish/css/fonts.css:

  This file is licensed under the SIL Open Font License.

    http://scripts.sil.org/OFL

spec/mspec:
```

```
spec/ruby:

    Copyright (c) 2008 Engine Yard, Inc. All rights reserved.

    Permission is hereby granted, free of charge, to any person
    obtaining a copy of this software and associated documentation
    files (the "Software"), to deal in the Software without
    restriction, including without limitation the rights to use,
    copy, modify, merge, publish, distribute, sublicense, and/or sell
    copies of the Software, and to permit persons to whom the
    Software is furnished to do so, subject to the following
    conditions:

    The above copyright notice and this permission notice shall be
    included in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
    EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
    OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
    HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
    WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
    OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Yukihiro Matsumoto / Component(s): Ruby 2.7.4

```
https://www.ruby-lang.org/en/about/license.txt

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>.
You can redistribute it and/or modify it under either the terms of the
2-clause BSDL:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.


Or the conditions below:

  1. You may make and give away verbatim copies of the source form of the
     software without restriction, provided that you duplicate all of the
```

```
     original copyright notices and associated disclaimers.

  2. You may modify your copy of the software in any way, provided that
     you do at least ONE of the following:

       a) place your modifications in the Public Domain or otherwise
          make them Freely Available, such as by posting said
   modifications to Usenet or an equivalent medium, or by allowing
   the author to include your modifications in the software.

       b) use the modified software only within your corporation or
          organization.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.

  3. You may distribute the software in object code or binary form,
     provided that you do at least ONE of the following:

       a) distribute the binaries and library files of the software,
   together with instructions (in the manual page or equivalent)
   on where to get the original distribution.

       b) accompany the distribution with the machine-readable source of
   the software.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.

  4. You may modify and include the part of the software into any other
     software (possibly commercial).  But some files in the distribution
     are not written by the author, so that they are not under these terms.

     For the list of those files and their copying conditions, see the
     file LEGAL.

  5. The scripts and library files supplied as input to or produced as
     output from the software do not automatically fall under the
     copyright of the software, but belong to whomever generated them,
     and may be sold commercially, and may be aggregated with this
     software.

  6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
     IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
     WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
     PURPOSE.


= LEGAL NOTICE INFORMATION
--------------------------

All the files in this distribution are covered under either the Ruby's
license (see the file COPYING) or public-domain except some files
mentioned below.

ccan/build_assert/build_assert.h::
ccan/check_type/check_type.h::
ccan/container_of/container_of.h::
ccan/str/str.h::
```

```
  These files are licensed under the CC0.

  >>>
    https://creativecommons.org/choose/zero/

ccan/list/list.h::

---------------------------------------------
Creative Commons Legal Code

CC0 1.0 Universal

    CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
    LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN
    ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS
    INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES
    REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS
    PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM
    THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED
    HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
exclusive Copyright and Related Rights (defined below) upon the creator
and subsequent owner(s) (each and all, an "owner") of an original work of
authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for
the purpose of contributing to a commons of creative, cultural and
scientific works ("Commons") that the public can reliably and without fear
of later claims of infringement build upon, modify, incorporate in other
works, reuse and redistribute as freely as possible in any form whatsoever
and for any purposes, including without limitation commercial purposes.
These owners may contribute to the Commons to promote the ideal of a free
culture and the further production of creative, cultural and scientific
works, or to gain reputation or greater distribution for their Work in
part through the use and efforts of others.

For these and/or other purposes and motivations, and without any
expectation of additional consideration or compensation, the person
associating CC0 with a Work (the "Affirmer"), to the extent that he or she
is an owner of Copyright and Related Rights in the Work, voluntarily
elects to apply CC0 to the Work and publicly distribute the Work under its
terms, with knowledge of his or her Copyright and Related Rights in the
Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
protected by copyright and related or neighboring rights ("Copyright and
Related Rights"). Copyright and Related Rights include, but are not
limited to, the following:

  i. the right to reproduce, adapt, distribute, perform, display,
     communicate, and translate a Work;
 ii. moral rights retained by the original author(s) and/or performer(s);
iii. publicity and privacy rights pertaining to a person's image or
     likeness depicted in a Work;
 iv. rights protecting against unfair competition in regards to a Work,
     subject to the limitations in paragraph 4(a), below;
  v. rights protecting the extraction, dissemination, use and reuse of data
     in a Work;
 vi. database rights (such as those arising under Directive 96/9/EC of the
     European Parliament and of the Council of 11 March 1996 on the legal
     protection of databases, and under any national implementation
```

```
     thereof, including any amended or successor version of such
     directive); and
vii. other similar, equivalent or corresponding rights throughout the
     world based on applicable law or treaty, and any national
     implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention
of, applicable law, Affirmer hereby overtly, fully, permanently,
irrevocably and unconditionally waives, abandons, and surrenders all of
Affirmer's Copyright and Related Rights and associated claims and causes
of action, whether now known or unknown (including existing as well as
future claims and causes of action), in the Work (i) in all territories
worldwide, (ii) for the maximum duration provided by applicable law or
treaty (including future time extensions), (iii) in any current or future
medium and for any number of copies, and (iv) for any purpose whatsoever,
including without limitation commercial, advertising or promotional
purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each
member of the public at large and to the detriment of Affirmer's heirs and
successors, fully intending that such Waiver shall not be subject to
revocation, rescission, cancellation, termination, or any other legal or
equitable action to disrupt the quiet enjoyment of the Work by the public
as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
be judged legally invalid or ineffective under applicable law, then the
Waiver shall be preserved to the maximum extent permitted taking into
account Affirmer's express Statement of Purpose. In addition, to the
extent the Waiver is so judged Affirmer hereby grants to each affected
person a royalty-free, non transferable, non sublicensable, non exclusive,
irrevocable and unconditional license to exercise Affirmer's Copyright and
Related Rights in the Work (i) in all territories worldwide, (ii) for the
maximum duration provided by applicable law or treaty (including future
time extensions), (iii) in any current or future medium and for any number
of copies, and (iv) for any purpose whatsoever, including without
limitation commercial, advertising or promotional purposes (the
"License"). The License shall be deemed effective as of the date CC0 was
applied by Affirmer to the Work. Should any part of the License for any
reason be judged legally invalid or ineffective under applicable law, such
partial invalidity or ineffectiveness shall not invalidate the remainder
of the License, and in such case Affirmer hereby affirms that he or she
will not (i) exercise any of his or her remaining Copyright and Related
Rights in the Work or (ii) assert any associated claims and causes of
action with respect to the Work, in either case contrary to Affirmer's
express Statement of Purpose.

4. Limitations and Disclaimers.

 a. No trademark or patent rights held by Affirmer are waived, abandoned,
    surrendered, licensed or otherwise affected by this document.
 b. Affirmer offers the Work as-is and makes no representations or
    warranties of any kind concerning the Work, express, implied,
    statutory or otherwise, including without limitation warranties of
    title, merchantability, fitness for a particular purpose, non
    infringement, or the absence of latent or other defects, accuracy, or
    the present or absence of errors, whether or not discoverable, all to
    the greatest extent permissible under applicable law.
 c. Affirmer disclaims responsibility for clearing rights of other persons
    that may apply to the Work or any use thereof, including without
    limitation any person's Copyright and Related Rights in the Work.
    Further, Affirmer disclaims responsibility for obtaining any necessary
    consents, permissions or other rights required for any use of the
    Work.
 d. Affirmer understands and acknowledges that Creative Commons is not a
    party to this document and has no duty or obligation with respect to
```

```
    this CC0 or use of the Work.

----------------------------------------
ccan/list/list.h:


  This file is licensed under the MIT License.

  >>>
    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.

include/ruby/onigmo.h::
include/ruby/oniguruma.h::
regcomp.c::
regenc.c::
regenc.h::
regerror.c::
regexec.c::
regint.h::
regparse.c::
regparse.h::
enc/ascii.c::
enc/big5.c::
enc/cp949.c::
enc/emacs_mule.c::
enc/encdb.c::
enc/euc_jp.c::
enc/euc_kr.c::
enc/euc_tw.c::
enc/gb18030.c::
enc/gb2312.c::
enc/gbk.c::
enc/iso_8859_1.c::
enc/iso_8859_10.c::
enc/iso_8859_11.c::
enc/iso_8859_13.c::
enc/iso_8859_14.c::
enc/iso_8859_15.c::
enc/iso_8859_16.c::
```

```
enc/iso_8859_2.c::
enc/iso_8859_3.c::
enc/iso_8859_4.c::
enc/iso_8859_5.c::
enc/iso_8859_6.c::
enc/iso_8859_7.c::
enc/iso_8859_8.c::
enc/iso_8859_9.c::
enc/koi8_r.c::
enc/koi8_u.c::
enc/shift_jis.c::
enc/unicode.c::
enc/us_ascii.c::
enc/utf_16be.c::
enc/utf_16le.c::
enc/utf_32be.c::
enc/utf_32le.c::
enc/utf_8.c::
enc/windows_1251.c::

  Onigmo (Oniguruma-mod) LICENSE

  >>>
    Copyright (c) 2002-2009  K.Kosako  <sndgk393 AT ybb DOT ne DOT jp>
    Copyright (c) 2011-2014  K.Takata  <kentkt AT csc DOT jp>
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

  Oniguruma LICENSE

  >>>
    Copyright (c) 2002-2009  K.Kosako  <sndgk393 AT ybb DOT ne DOT jp>
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
```

```
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

  * https://github.com/k-takata/Onigmo/
  * https://github.com/kkos/oniguruma
  * https://svnweb.freebsd.org/ports/head/devel/oniguruma/

    When this software is partly used or it is distributed with Ruby,
    this of Ruby follows the license of Ruby.

enc/trans/GB/GB12345%UCS.src::
enc/trans/GB/UCS%GB12345.src::
enc/trans/GB/GB2312%UCS.src::
enc/trans/GB/UCS%GB2312.src::

  These files have this explanatory texts.

  >>>
    This mapping data was created from files provided by Unicode, Inc.
    (The Unicode Consortium). The files were used to create a product
 supporting
    Unicode, as explicitly permitted in the files' copyright notices.
    Please note that Unicode, Inc. never made any claims as to fitness of
 these
    files for any particular purpose, and has ceased to publish the files
 many
    years ago.

enc/trans/JIS/JISX0201-KANA%UCS.src::
enc/trans/JIS/JISX0208\@1990%UCS.src::
enc/trans/JIS/JISX0212%UCS.src::
enc/trans/JIS/UCS%JISX0201-KANA.src::
enc/trans/JIS/UCS%JISX0208@1990.src::
enc/trans/JIS/UCS%JISX0212.src::

  These files are copyrighted as the following.

  >>>
    © 2015 Unicode®, Inc.

    For terms of use, see http://www.unicode.org/terms_of_use.html

enc/trans/JIS/JISX0213-1%UCS@BMP.src::
enc/trans/JIS/JISX0213-1%UCS@SIP.src::
enc/trans/JIS/JISX0213-2%UCS@BMP.src::
enc/trans/JIS/JISX0213-2%UCS@SIP.src::

  These files are copyrighted as the following.
```

```
  >>>
    Copyright (C) 2001 earthian@tama.or.jp, All Rights Reserved.
    Copyright (C) 2001 I'O, All Rights Reserved.
    Copyright (C) 2006 Project X0213, All Rights Reserved.
    You can use, modify, distribute this table freely.

enc/trans/JIS/UCS@BMP%JISX0213-1.src::
enc/trans/JIS/UCS@BMP%JISX0213-2.src::
enc/trans/JIS/UCS@SIP%JISX0213-1.src::
enc/trans/JIS/UCS@SIP%JISX0213-2.src::

  These files are copyrighted as the following.

  >>>
    Copyright (C) 2001 earthian@tama.or.jp, All Rights Reserved.
    Copyright (C) 2001 I'O, All Rights Reserved.
    You can use, modify, distribute this table freely.

configure::

  This file is free software.

  >>>
    Copyright (C) 1992-1996, 1998-2012 Free Software Foundation, Inc.

    This configure script is free software; the Free Software Foundation
    gives unlimited permission to copy, distribute and modify it.

tool/config.guess::
tool/config.sub::

  As long as you distribute these files with the file configure, they
  are covered under the Ruby's license.

  >>>
    Copyright 1992-2018 Free Software Foundation, Inc.

    This file is free software; you can redistribute it and/or modify it
    under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, see <https://www.gnu.org/licenses/>.

    As a special exception to the GNU General Public License, if you
    distribute this file as part of a program that contains a
    configuration script generated by Autoconf, you may include it under
    the same distribution terms that you use for the rest of that
    program.  This Exception is an additional permission under section 7
    of the GNU General Public License, version 3 ("GPLv3").

parse.c::

  This file is licensed under the GPL, but is incorporated into Ruby and
  redistributed under the terms of the Ruby license, as permitted by the
  exception to the GPL below.
```

```
  >>>
    Copyright (C) 1984, 1989-1990, 2000-2015, 2018 Free Software Foundation,
 Inc.

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

    As a special exception, you may create a larger work that contains
    part or all of the Bison parser skeleton and distribute that work
    under terms of your choice, so long as that work isn't itself a
    parser generator using the skeleton or a modified version thereof
    as a parser skeleton.  Alternatively, if you modify or redistribute
    the parser skeleton itself, you may (at your option) remove this
    special exception, which will cause the skeleton and the resulting
    Bison output files to be licensed under the GNU General Public
    License without this special exception.

    This special exception was added by the Free Software Foundation in
    version 2.2 of Bison.

util.c (partly)::

  This file contains the source code under these licenses.

  >>>
    Copyright (c) 1991, 2000, 2001 by Lucent Technologies.

    Permission to use, copy, modify, and distribute this software for any
    purpose without fee is hereby granted, provided that this entire notice
    is included in all copies of any software which is or includes a copy
    or modification of this software and in all copies of the supporting
    documentation for such software.

    THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
    WARRANTY.  IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY
    REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
    OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

  >>>
    Copyright (c) 2004-2008 David Schultz <das@FreeBSD.ORG>
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

win32/win32.{c,h}::

  You can apply the Artistic License to these files. (or GPL,
  alternatively)

  >>>
    Copyright (c) 1993, Intergraph Corporation

    You may distribute under the terms of either the GNU General Public
    License or the Artistic License, as specified in the perl README file.

----------------------------------------

                       The Artistic License 2.0

            Copyright (c) 2000-2006, The Perl Foundation.

     Everyone is permitted to copy and distribute verbatim copies
      of this license document, but changing it is not allowed.

Preamble

This license establishes the terms under which a given free software
Package may be copied, modified, distributed, and/or redistributed.
The intent is that the Copyright Holder maintains some artistic
control over the development of that Package while still keeping the
Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this
license directly with the Copyright Holder of a given Package.  If the
terms of this license do not permit the full use that you propose to
make of the Package, you should contact the Copyright Holder and seek
a different licensing arrangement.

Definitions

    "Copyright Holder" means the individual(s) or organization(s)
    named in the copyright notice for the entire Package.

    "Contributor" means any party that has contributed code or other
    material to the Package, in accordance with the Copyright Holder's
    procedures.

    "You" and "your" means any person who would like to copy,
    distribute, or modify the Package.

    "Package" means the collection of files distributed by the
    Copyright Holder, and derivatives of that collection and/or of
    those files. A given Package may consist of either the Standard
    Version, or a Modified Version.
```

```
    "Distribute" means providing a copy of the Package or making it
    accessible to anyone else, or in the case of a company or
    organization, to others outside of your company or organization.

    "Distributor Fee" means any fee that you charge for Distributing
    this Package or providing support for this Package to another
    party.  It does not mean licensing fees.

    "Standard Version" refers to the Package if it has not been
    modified, or has been modified only in ways explicitly requested
    by the Copyright Holder.

    "Modified Version" means the Package, if it has been changed, and
    such changes were not explicitly requested by the Copyright
    Holder.

    "Original License" means this Artistic License as Distributed with
    the Standard Version of the Package, in its current version or as
    it may be modified by The Perl Foundation in the future.

    "Source" form means the source code, documentation source, and
    configuration files for the Package.

    "Compiled" form means the compiled bytecode, object code, binary,
    or any other form resulting from mechanical transformation or
    translation of the Source form.


Permission for Use and Modification Without Distribution

(1)  You are permitted to use the Standard Version and create and use
Modified Versions for any purpose without restriction, provided that
you do not Distribute the Modified Version.


Permissions for Redistribution of the Standard Version

(2)  You may Distribute verbatim copies of the Source form of the
Standard Version of this Package in any medium without restriction,
either gratis or for a Distributor Fee, provided that you duplicate
all of the original copyright notices and associated disclaimers.  At
your discretion, such verbatim copies may or may not include a
Compiled form of the Package.

(3)  You may apply any bug fixes, portability changes, and other
modifications made available from the Copyright Holder.  The resulting
Package will still be considered the Standard Version, and as such
will be subject to the Original License.


Distribution of Modified Versions of the Package as Source

(4)  You may Distribute your Modified Version as Source (either gratis
or for a Distributor Fee, and with or without a Compiled form of the
Modified Version) provided that you clearly document how it differs
from the Standard Version, including, but not limited to, documenting
any non-standard features, executables, or modules, and provided that
you do at least ONE of the following:

    (a)  make the Modified Version available to the Copyright Holder
    of the Standard Version, under the Original License, so that the
    Copyright Holder may include your modifications in the Standard
    Version.
```

```
    (b)  ensure that installation of your Modified Version does not
    prevent the user installing or running the Standard Version. In
    addition, the Modified Version must bear a name that is different
    from the name of the Standard Version.

    (c)  allow anyone who receives a copy of the Modified Version to
    make the Source form of the Modified Version available to others
    under

  (i)  the Original License or

  (ii)  a license that permits the licensee to freely copy,
  modify and redistribute the Modified Version using the same
  licensing terms that apply to the copy that the licensee
  received, and requires that the Source form of the Modified
  Version, and of any works derived from it, be made freely
  available in that license fees are prohibited but Distributor
  Fees are allowed.


Distribution of Compiled Forms of the Standard Version
or Modified Versions without the Source

(5)  You may Distribute Compiled forms of the Standard Version without
the Source, provided that you include complete instructions on how to
get the Source of the Standard Version.  Such instructions must be
valid at the time of your distribution.  If these instructions, at any
time while you are carrying out such distribution, become invalid, you
must provide new instructions on demand or cease further distribution.
If you provide valid instructions or cease distribution within thirty
days after you become aware that the instructions are invalid, then
you do not forfeit any of your rights under this license.

(6)  You may Distribute a Modified Version in Compiled form without
the Source, provided that you comply with Section 4 with respect to
the Source of the Modified Version.


Aggregating or Linking the Package

(7)  You may aggregate the Package (either the Standard Version or
Modified Version) with other packages and Distribute the resulting
aggregation provided that you do not charge a licensing fee for the
Package.  Distributor Fees are permitted, and licensing fees for other
components in the aggregation are permitted. The terms of this license
apply to the use and Distribution of the Standard or Modified Versions
as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with
other works, to embed the Package in a larger work of your own, or to
build stand-alone binary or bytecode versions of applications that
include the Package, and Distribute the result without restriction,
provided the result does not expose a direct interface to the Package.


Items That are Not Considered Part of a Modified Version

(9) Works (including, but not limited to, modules and scripts) that
merely extend or make use of the Package, do not, by themselves, cause
the Package to be a Modified Version.  In addition, such works are not
considered parts of the Package itself, and are not subject to the
terms of this license.
```

```
General Provisions

(10)  Any use, modification, and distribution of the Standard or
Modified Versions is governed by this Artistic License. By using,
modifying or distributing the Package, you accept this license. Do not
use, modify, or distribute the Package, if you do not accept this
license.

(11)  If your Modified Version has been derived from a Modified
Version made by someone other than you, you are nevertheless required
to ensure that your Modified Version complies with the requirements of
this license.

(12)  This license does not grant you the right to use any trademark,
service mark, tradename, or logo of the Copyright Holder.

(13)  This license includes the non-exclusive, worldwide,
free-of-charge patent license to make, have made, use, offer to sell,
sell, import and otherwise transfer the Package with respect to any
patent claims licensable by the Copyright Holder that are necessarily
infringed by the Package. If you institute patent litigation
(including a cross-claim or counterclaim) against any party alleging
that the Package constitutes direct or contributory patent
infringement, then this Artistic License to you shall terminate on the
date that such litigation is filed.

(14)  Disclaimer of Warranty:
THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS
IS' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL
LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL
DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------

random.c:


  This file contains the source code under the new-style BSD license.

  >>>
    A C-program for MT19937, with initialization improved 2002/2/10.
    Coded by Takuji Nishimura and Makoto Matsumoto.
    This is a faster version by taking Shawn Cokus's optimization,
    Matthe Bellew's simplification, Isaku Wada's real version.

    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).

    Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
```

```
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. The names of its contributors may not be used to endorse or promote
       products derived from this software without specific prior written
       permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR
    CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


    Any feedback is very welcome.
    http://www.math.keio.ac.jp/matumoto/emt.html
    email: matumoto@math.keio.ac.jp

  The Wayback Machine url: http://web.archive.org/web/19990429082237/http://
www.math.keio.ac.jp/matumoto/emt.html

vm_dump.c:procstat_vm::

  This file contains the source code under the new-style BSD license.

  >>>
    Copyright (c) 2007 Robert N. M. Watson
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

    $FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11
 21:57:37Z jhb $
```

```
vsnprintf.c::

  This file is under the old-style BSD license.  Note that the
  paragraph 3 below is now null and void.

  >>>
    Copyright (c) 1990, 1993
    The Regents of the University of California.  All rights reserved.

    This code is derived from software contributed to Berkeley by
    Chris Torek.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the University nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

    IMPORTANT NOTE:
    --------------
    From ftp://ftp.cs.berkeley.edu/pub/4bsd/README.Impt.License.Change
    paragraph 3 above is now null and void.

st.c::
strftime.c::
include/ruby/st.h::
missing/acosh.c::
missing/alloca.c::
missing/dup2.c::
missing/erf.c::
missing/finite.c::
missing/hypot.c::
missing/isinf.c::
missing/isnan.c::
missing/lgamma_r.c::
missing/memcmp.c::
missing/memmove.c::
missing/strchr.c::
missing/strerror.c::
missing/strstr.c::
missing/tgamma.c::
ext/date/date_strftime.c::
```

```
ext/digest/sha1/sha1.c::
ext/digest/sha1/sha1.h::
ext/sdbm/_sdbm.c::
ext/sdbm/sdbm.h::

  These files are all under public domain.

missing/crypt.c::

  This file is under the old-style BSD license.  Note that the
  paragraph 3 below is now null and void.

  >>>
    Copyright (c) 1989, 1993
    The Regents of the University of California.  All rights reserved.

    This code is derived from software contributed to Berkeley by
    Tom Truscott.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the University nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

missing/setproctitle.c::

  This file is under the old-style BSD license.  Note that the
  paragraph 3 below is now null and void.

  >>>
    Copyright 2003 Damien Miller
    Copyright (c) 1983, 1995-1997 Eric P. Allman
    Copyright (c) 1988, 1993
    The Regents of the University of California.  All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
```

```
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the University nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

missing/strlcat.c::
missing/strlcpy.c::

  These files are under an ISC-style license.

  >>>
    Copyright (c) 1998, 2015 Todd C. Miller <Todd.Miller@courtesan.com>

    Permission to use, copy, modify, and distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
    OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

missing/langinfo.c::

  This file is from http://www.cl.cam.ac.uk/~mgk25/ucs/langinfo.c.
  Ruby uses a modified version. The file contains the following
  author/copyright notice:

  >>>
    Markus.Kuhn@cl.cam.ac.uk -- 2002-03-11
    Permission to use, copy, modify, and distribute this software
    for any purpose and without fee is hereby granted. The author
    disclaims all warranties with regard to this software.

ext/digest/md5/md5.c::
ext/digest/md5/md5.h::

  These files are under the following license.  Ruby uses modified
  versions of them.

  >>>
    Copyright (C) 1999, 2000 Aladdin Enterprises.  All rights reserved.

    This software is provided 'as-is', without any express or implied
```

```
    warranty.  In no event will the authors be held liable for any damages
    arising from the use of this software.

    Permission is granted to anyone to use this software for any purpose,
    including commercial applications, and to alter it and redistribute it
    freely, subject to the following restrictions:

    1. The origin of this software must not be misrepresented; you must not
       claim that you wrote the original software. If you use this software
       in a product, an acknowledgment in the product documentation would be
       appreciated but is not required.
    2. Altered source versions must be plainly marked as such, and must not
 be
       misrepresented as being the original software.
    3. This notice may not be removed or altered from any source
 distribution.

    L. Peter Deutsch
    ghost@aladdin.com

ext/digest/rmd160/rmd160.c::
ext/digest/rmd160/rmd160.h::

  These files have the following copyright information, and by the
  author we are allowed to use it under the new-style BSD license.

  >>>
    AUTHOR::  Antoon Bosselaers, ESAT-COSIC
              (Arranged for libc by Todd C. Miller)
    DATE::    1 March 1996

    Copyright (c) Katholieke Universiteit Leuven
    1996, All Rights Reserved

ext/digest/sha2/sha2.c::
ext/digest/sha2/sha2.h::

  These files are under the new-style BSD license.

  >>>
    Copyright 2000 Aaron D. Gifford.  All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the copyright holder nor the names of
 contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) AND CONTRIBUTOR(S) ``AS IS''
 AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR(S) OR CONTRIBUTOR(S) BE
 LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
```

```
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

ext/json/generator/generator.c::

  The file contains the following copyright notice.

  >>>
    Copyright 2001-2004 Unicode, Inc.

    Disclaimer::

      This source code is provided as is by Unicode, Inc. No claims are
      made as to fitness for any particular purpose. No warranties of any
      kind are expressed or implied. The recipient agrees to determine
      applicability of information provided. If this file has been
      purchased on magnetic or optical media from Unicode, Inc., the
      sole remedy for any claim will be exchange of defective media
      within 90 days of receipt.

    Limitations on Rights to Redistribute This Code::

      Unicode, Inc. hereby grants the right to freely use the information
      supplied in this file in the creation of products supporting the
      Unicode Standard, and to make copies of this file in any form
      for internal or external distribution as long as this notice
      remains attached.

ext/nkf/nkf-utf8/config.h::
ext/nkf/nkf-utf8/nkf.c::
ext/nkf/nkf-utf8/utf8tbl.c::

  These files are under the following license.  So to speak, it is
  copyrighted semi-public-domain software.

  >>>
    Copyright (C) 1987, Fujitsu LTD. (Itaru ICHIKAWA)

    Everyone is permitted to do anything on this program
    including copying, modifying, improving,
    as long as you don't try to pretend that you wrote it.
    i.e., the above copyright notice has to appear in all copies.
    Binary distribution requires original version messages.
    You don't have to ask before copying, redistribution or publishing.
    THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE.

ext/psych::
test/psych::

  The files under these directories are under the following license, except
 for
  ext/psych/yaml.

  >>>
    Copyright 2009 Aaron Patterson, et al.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy of
```

```
    this software and associated documentation files (the 'Software'), to
 deal in
    the Software without restriction, including without limitation the
 rights to
    use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
    of the Software, and to permit persons to whom the Software is furnished
 to do
    so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE.

ext/psych/yaml::

  The files under this directory are under the following license.

  >>>
    Copyright (c) 2006 Kirill Simonov

    Permission is hereby granted, free of charge, to any person obtaining a
 copy of
    this software and associated documentation files (the "Software"), to
 deal in
    the Software without restriction, including without limitation the
 rights to
    use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
    of the Software, and to permit persons to whom the Software is furnished
 to do
    so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE.

ext/socket/addrinfo.h::
ext/socket/getaddrinfo.c::
ext/socket/getnameinfo.c::
```

```
  These files are under the new-style BSD license.

  >>>
    Copyright (C) 1995, 1996, 1997, 1998, and 1999 WIDE Project.
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the project nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

ext/win32ole/win32ole.c::

  You can apply the Artistic License to this file. (or GPL,
  alternatively)

  >>>
    (c) 1995 Microsoft Corporation. All rights reserved.
    Developed by ActiveWare Internet Corp., http://www.ActiveWare.com

    Other modifications Copyright (c) 1997, 1998 by Gurusamy Sarathy
    <gsar@umich.edu> and Jan Dubois <jan.dubois@ibm.net>

    You may distribute under the terms of either the GNU General Public
    License or the Artistic License, as specified in the README file
    of the Perl distribution.

  The Wayback Machine url: http://web.archive.org/web/19970607104352/http://
www.activeware.com:80/

lib/rdoc/generator/template/darkfish/css/fonts.css::

  This file is licensed under the SIL Open Font License.

  >>>
    http://scripts.sil.org/OFL

spec/mspec::
spec/ruby::
```

```
  The files under these directories are under the following license.

  >>>
    Copyright (c) 2008 Engine Yard, Inc. All rights reserved.

    Permission is hereby granted, free of charge, to any person
    obtaining a copy of this software and associated documentation
    files (the "Software"), to deal in the Software without
    restriction, including without limitation the rights to use,
    copy, modify, merge, publish, distribute, sublicense, and/or sell
    copies of the Software, and to permit persons to whom the
    Software is furnished to do so, subject to the following
    conditions:

    The above copyright notice and this permission notice shall be
    included in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
    EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
    OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
    HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
    WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
    OTHER DEALINGS IN THE SOFTWARE.

lib/rubygems.rb::
lib/rubygems::
test/rubygems::

  RubyGems is under the following license.

  >>>
    RubyGems is copyrighted free software by Chad Fowler, Rich Kilmer, Jim
    Weirich and others.  You can redistribute it and/or modify it under
    either the terms of the MIT license (see the file MIT.txt), or the
    conditions below:

    1. You may make and give away verbatim copies of the source form of the
       software without restriction, provided that you duplicate all of the
       original copyright notices and associated disclaimers.

    2. You may modify your copy of the software in any way, provided that
       you do at least ONE of the following:

       a. place your modifications in the Public Domain or otherwise
          make them Freely Available, such as by posting said
          modifications to Usenet or an equivalent medium, or by allowing
          the author to include your modifications in the software.

       b. use the modified software only within your corporation or
          organization.

       c. give non-standard executables non-standard names, with
          instructions on where to get the original software distribution.

       d. make other distribution arrangements with the author.

    3. You may distribute the software in object code or executable
       form, provided that you do at least ONE of the following:

       a. distribute the executables and library files of the software,
          together with instructions (in the manual page or equivalent)
          on where to get the original distribution.
```

```
       b. accompany the distribution with the machine-readable source of
          the software.

       c. give non-standard executables non-standard names, with
          instructions on where to get the original software distribution.

       d. make other distribution arrangements with the author.

    4. You may modify and include the part of the software into any other
       software (possibly commercial).

    5. The scripts and library files supplied as input to or produced as
       output from the software do not automatically fall under the
       copyright of the software, but belong to whomever generated them,
       and may be sold commercially, and may be aggregated with this
       software.

    6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
       IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
       WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
       PURPOSE.

lib/bundler::
lib/bundler.rb::
lib/bundler.gemspec::
spec/bundler::
man/bundle-*,gemfile.*::

  Bundler is under the following license.

  >>>
    Portions copyright (c) 2010 Andre Arko
    Portions copyright (c) 2009 Engine Yard

    MIT License::

      Permission is hereby granted, free of charge, to any person obtaining
      a copy of this software and associated documentation files (the
      "Software"), to deal in the Software without restriction, including
      without limitation the rights to use, copy, modify, merge, publish,
      distribute, sublicense, and/or sell copies of the Software, and to
      permit persons to whom the Software is furnished to do so, subject to
      the following conditions:

      The above copyright notice and this permission notice shall be
      included in all copies or substantial portions of the Software.

      THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
      EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
      MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
      NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
      LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
      OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
      WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

Provider: Yukihiro Matsumoto / Component(s): Ruby ruby-2.7.6-138.module +el8.6.0+20740+358d9979

```
https://www.ruby-lang.org/en/about/license.txt

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>.
```

```
You can redistribute it and/or modify it under either the terms of the
2-clause BSDL:

Copyright (C) 1993-2013 Yukihiro Matsumoto. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.


Or the conditions below:

  1. You may make and give away verbatim copies of the source form of the
     software without restriction, provided that you duplicate all of the
     original copyright notices and associated disclaimers.

  2. You may modify your copy of the software in any way, provided that
     you do at least ONE of the following:

       a) place your modifications in the Public Domain or otherwise
          make them Freely Available, such as by posting said
   modifications to Usenet or an equivalent medium, or by allowing
   the author to include your modifications in the software.

       b) use the modified software only within your corporation or
          organization.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.

  3. You may distribute the software in object code or binary form,
     provided that you do at least ONE of the following:

       a) distribute the binaries and library files of the software,
   together with instructions (in the manual page or equivalent)
   on where to get the original distribution.

       b) accompany the distribution with the machine-readable source of
   the software.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.
```

```
  4. You may modify and include the part of the software into any other
     software (possibly commercial).  But some files in the distribution
     are not written by the author, so that they are not under these terms.

     For the list of those files and their copying conditions, see the
     file LEGAL.

  5. The scripts and library files supplied as input to or produced as
     output from the software do not automatically fall under the
     copyright of the software, but belong to whomever generated them,
     and may be sold commercially, and may be aggregated with this
     software.

  6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
     IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
     WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
     PURPOSE.


= LEGAL NOTICE INFORMATION
--------------------------

All the files in this distribution are covered under either the Ruby's
license (see the file COPYING) or public-domain except some files
mentioned below.

ccan/build_assert/build_assert.h::
ccan/check_type/check_type.h::
ccan/container_of/container_of.h::
ccan/str/str.h::

  These files are licensed under the CC0.

  >>>
    https://creativecommons.org/choose/zero/

ccan/list/list.h::

---------------------------------------------
Creative Commons Legal Code

CC0 1.0 Universal

    CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE
    LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN
    ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS
    INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES
    REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS
    PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM
    THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED
    HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer
exclusive Copyright and Related Rights (defined below) upon the creator
and subsequent owner(s) (each and all, an "owner") of an original work of
authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for
the purpose of contributing to a commons of creative, cultural and
scientific works ("Commons") that the public can reliably and without fear
of later claims of infringement build upon, modify, incorporate in other
works, reuse and redistribute as freely as possible in any form whatsoever
```

```
and for any purposes, including without limitation commercial purposes.
These owners may contribute to the Commons to promote the ideal of a free
culture and the further production of creative, cultural and scientific
works, or to gain reputation or greater distribution for their Work in
part through the use and efforts of others.

For these and/or other purposes and motivations, and without any
expectation of additional consideration or compensation, the person
associating CC0 with a Work (the "Affirmer"), to the extent that he or she
is an owner of Copyright and Related Rights in the Work, voluntarily
elects to apply CC0 to the Work and publicly distribute the Work under its
terms, with knowledge of his or her Copyright and Related Rights in the
Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be
protected by copyright and related or neighboring rights ("Copyright and
Related Rights"). Copyright and Related Rights include, but are not
limited to, the following:

  i. the right to reproduce, adapt, distribute, perform, display,
     communicate, and translate a Work;
 ii. moral rights retained by the original author(s) and/or performer(s);
iii. publicity and privacy rights pertaining to a person's image or
     likeness depicted in a Work;
 iv. rights protecting against unfair competition in regards to a Work,
     subject to the limitations in paragraph 4(a), below;
  v. rights protecting the extraction, dissemination, use and reuse of data
     in a Work;
 vi. database rights (such as those arising under Directive 96/9/EC of the
     European Parliament and of the Council of 11 March 1996 on the legal
     protection of databases, and under any national implementation
     thereof, including any amended or successor version of such
     directive); and
vii. other similar, equivalent or corresponding rights throughout the
     world based on applicable law or treaty, and any national
     implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention
of, applicable law, Affirmer hereby overtly, fully, permanently,
irrevocably and unconditionally waives, abandons, and surrenders all of
Affirmer's Copyright and Related Rights and associated claims and causes
of action, whether now known or unknown (including existing as well as
future claims and causes of action), in the Work (i) in all territories
worldwide, (ii) for the maximum duration provided by applicable law or
treaty (including future time extensions), (iii) in any current or future
medium and for any number of copies, and (iv) for any purpose whatsoever,
including without limitation commercial, advertising or promotional
purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each
member of the public at large and to the detriment of Affirmer's heirs and
successors, fully intending that such Waiver shall not be subject to
revocation, rescission, cancellation, termination, or any other legal or
equitable action to disrupt the quiet enjoyment of the Work by the public
as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason
be judged legally invalid or ineffective under applicable law, then the
Waiver shall be preserved to the maximum extent permitted taking into
account Affirmer's express Statement of Purpose. In addition, to the
extent the Waiver is so judged Affirmer hereby grants to each affected
person a royalty-free, non transferable, non sublicensable, non exclusive,
irrevocable and unconditional license to exercise Affirmer's Copyright and
Related Rights in the Work (i) in all territories worldwide, (ii) for the
maximum duration provided by applicable law or treaty (including future
time extensions), (iii) in any current or future medium and for any number
```

```
of copies, and (iv) for any purpose whatsoever, including without
limitation commercial, advertising or promotional purposes (the
"License"). The License shall be deemed effective as of the date CC0 was
applied by Affirmer to the Work. Should any part of the License for any
reason be judged legally invalid or ineffective under applicable law, such
partial invalidity or ineffectiveness shall not invalidate the remainder
of the License, and in such case Affirmer hereby affirms that he or she
will not (i) exercise any of his or her remaining Copyright and Related
Rights in the Work or (ii) assert any associated claims and causes of
action with respect to the Work, in either case contrary to Affirmer's
express Statement of Purpose.

4. Limitations and Disclaimers.

 a. No trademark or patent rights held by Affirmer are waived, abandoned,
    surrendered, licensed or otherwise affected by this document.
 b. Affirmer offers the Work as-is and makes no representations or
    warranties of any kind concerning the Work, express, implied,
    statutory or otherwise, including without limitation warranties of
    title, merchantability, fitness for a particular purpose, non
    infringement, or the absence of latent or other defects, accuracy, or
    the present or absence of errors, whether or not discoverable, all to
    the greatest extent permissible under applicable law.
 c. Affirmer disclaims responsibility for clearing rights of other persons
    that may apply to the Work or any use thereof, including without
    limitation any person's Copyright and Related Rights in the Work.
    Further, Affirmer disclaims responsibility for obtaining any necessary
    consents, permissions or other rights required for any use of the
    Work.
 d. Affirmer understands and acknowledges that Creative Commons is not a
    party to this document and has no duty or obligation with respect to
    this CC0 or use of the Work.

----------------------------------------
ccan/list/list.h:


  This file is licensed under the MIT License.

  >>>
    Permission is hereby granted, free of charge, to any person obtaining a
 copy
    of this software and associated documentation files (the "Software"), to
 deal
    in the Software without restriction, including without limitation the
 rights
    to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell
    copies of the Software, and to permit persons to whom the Software is
    furnished to do so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in
    all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN
    THE SOFTWARE.

include/ruby/onigmo.h::
include/ruby/oniguruma.h::
regcomp.c::
regenc.c::
regenc.h::
regerror.c::
regexec.c::
regint.h::
regparse.c::
regparse.h::
enc/ascii.c::
enc/big5.c::
enc/cp949.c::
enc/emacs_mule.c::
enc/encdb.c::
enc/euc_jp.c::
enc/euc_kr.c::
enc/euc_tw.c::
enc/gb18030.c::
enc/gb2312.c::
enc/gbk.c::
enc/iso_8859_1.c::
enc/iso_8859_10.c::
enc/iso_8859_11.c::
enc/iso_8859_13.c::
enc/iso_8859_14.c::
enc/iso_8859_15.c::
enc/iso_8859_16.c::
enc/iso_8859_2.c::
enc/iso_8859_3.c::
enc/iso_8859_4.c::
enc/iso_8859_5.c::
enc/iso_8859_6.c::
enc/iso_8859_7.c::
enc/iso_8859_8.c::
enc/iso_8859_9.c::
enc/koi8_r.c::
enc/koi8_u.c::
enc/shift_jis.c::
enc/unicode.c::
enc/us_ascii.c::
enc/utf_16be.c::
enc/utf_16le.c::
enc/utf_32be.c::
enc/utf_32le.c::
enc/utf_8.c::
enc/windows_1251.c::

  Onigmo (Oniguruma-mod) LICENSE

  >>>
    Copyright (c) 2002-2009  K.Kosako  <sndgk393 AT ybb DOT ne DOT jp>
    Copyright (c) 2011-2014  K.Takata  <kentkt AT csc DOT jp>
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
```

```
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

  Oniguruma LICENSE

  >>>
    Copyright (c) 2002-2009  K.Kosako  <sndgk393 AT ybb DOT ne DOT jp>
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

  * https://github.com/k-takata/Onigmo/
  * https://github.com/kkos/oniguruma
  * https://svnweb.freebsd.org/ports/head/devel/oniguruma/

    When this software is partly used or it is distributed with Ruby,
    this of Ruby follows the license of Ruby.

enc/trans/GB/GB12345%UCS.src::
enc/trans/GB/UCS%GB12345.src::
enc/trans/GB/GB2312%UCS.src::
enc/trans/GB/UCS%GB2312.src::

  These files have this explanatory texts.
```

```
  >>>
    This mapping data was created from files provided by Unicode, Inc.
    (The Unicode Consortium). The files were used to create a product
 supporting
    Unicode, as explicitly permitted in the files' copyright notices.
    Please note that Unicode, Inc. never made any claims as to fitness of
 these
    files for any particular purpose, and has ceased to publish the files
 many
    years ago.

enc/trans/JIS/JISX0201-KANA%UCS.src::
enc/trans/JIS/JISX0208\@1990%UCS.src::
enc/trans/JIS/JISX0212%UCS.src::
enc/trans/JIS/UCS%JISX0201-KANA.src::
enc/trans/JIS/UCS%JISX0208@1990.src::
enc/trans/JIS/UCS%JISX0212.src::

  These files are copyrighted as the following.

  >>>
    © 2015 Unicode®, Inc.

    For terms of use, see http://www.unicode.org/terms_of_use.html

enc/trans/JIS/JISX0213-1%UCS@BMP.src::
enc/trans/JIS/JISX0213-1%UCS@SIP.src::
enc/trans/JIS/JISX0213-2%UCS@BMP.src::
enc/trans/JIS/JISX0213-2%UCS@SIP.src::

  These files are copyrighted as the following.

  >>>
    Copyright (C) 2001 earthian@tama.or.jp, All Rights Reserved.
    Copyright (C) 2001 I'O, All Rights Reserved.
    Copyright (C) 2006 Project X0213, All Rights Reserved.
    You can use, modify, distribute this table freely.

enc/trans/JIS/UCS@BMP%JISX0213-1.src::
enc/trans/JIS/UCS@BMP%JISX0213-2.src::
enc/trans/JIS/UCS@SIP%JISX0213-1.src::
enc/trans/JIS/UCS@SIP%JISX0213-2.src::

  These files are copyrighted as the following.

  >>>
    Copyright (C) 2001 earthian@tama.or.jp, All Rights Reserved.
    Copyright (C) 2001 I'O, All Rights Reserved.
    You can use, modify, distribute this table freely.

configure::

  This file is free software.

  >>>
    Copyright (C) 1992-1996, 1998-2012 Free Software Foundation, Inc.

    This configure script is free software; the Free Software Foundation
    gives unlimited permission to copy, distribute and modify it.

tool/config.guess::
tool/config.sub::
```

```
  As long as you distribute these files with the file configure, they
  are covered under the Ruby's license.

  >>>
    Copyright 1992-2018 Free Software Foundation, Inc.

    This file is free software; you can redistribute it and/or modify it
    under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, see <https://www.gnu.org/licenses/>.

    As a special exception to the GNU General Public License, if you
    distribute this file as part of a program that contains a
    configuration script generated by Autoconf, you may include it under
    the same distribution terms that you use for the rest of that
    program.  This Exception is an additional permission under section 7
    of the GNU General Public License, version 3 ("GPLv3").

parse.c::

  This file is licensed under the GPL, but is incorporated into Ruby and
  redistributed under the terms of the Ruby license, as permitted by the
  exception to the GPL below.

  >>>
    Copyright (C) 1984, 1989-1990, 2000-2015, 2018 Free Software Foundation,
 Inc.

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

    As a special exception, you may create a larger work that contains
    part or all of the Bison parser skeleton and distribute that work
    under terms of your choice, so long as that work isn't itself a
    parser generator using the skeleton or a modified version thereof
    as a parser skeleton.  Alternatively, if you modify or redistribute
    the parser skeleton itself, you may (at your option) remove this
    special exception, which will cause the skeleton and the resulting
    Bison output files to be licensed under the GNU General Public
    License without this special exception.

    This special exception was added by the Free Software Foundation in
    version 2.2 of Bison.

util.c (partly)::
```

```
  This file contains the source code under these licenses.

  >>>
    Copyright (c) 1991, 2000, 2001 by Lucent Technologies.

    Permission to use, copy, modify, and distribute this software for any
    purpose without fee is hereby granted, provided that this entire notice
    is included in all copies of any software which is or includes a copy
    or modification of this software and in all copies of the supporting
    documentation for such software.

    THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
    WARRANTY.  IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY
    REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
    OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

  >>>
    Copyright (c) 2004-2008 David Schultz <das@FreeBSD.ORG>
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

win32/win32.{c,h}::

  You can apply the Artistic License to these files. (or GPL,
  alternatively)

  >>>
    Copyright (c) 1993, Intergraph Corporation

    You may distribute under the terms of either the GNU General Public
    License or the Artistic License, as specified in the perl README file.

----------------------------------------

                        The Artistic License 2.0

             Copyright (c) 2000-2006, The Perl Foundation.

     Everyone is permitted to copy and distribute verbatim copies
      of this license document, but changing it is not allowed.
```

```
Preamble

This license establishes the terms under which a given free software
Package may be copied, modified, distributed, and/or redistributed.
The intent is that the Copyright Holder maintains some artistic
control over the development of that Package while still keeping the
Package available as open source and free software.

You are always permitted to make arrangements wholly outside of this
license directly with the Copyright Holder of a given Package.  If the
terms of this license do not permit the full use that you propose to
make of the Package, you should contact the Copyright Holder and seek
a different licensing arrangement.

Definitions

    "Copyright Holder" means the individual(s) or organization(s)
    named in the copyright notice for the entire Package.

    "Contributor" means any party that has contributed code or other
    material to the Package, in accordance with the Copyright Holder's
    procedures.

    "You" and "your" means any person who would like to copy,
    distribute, or modify the Package.

    "Package" means the collection of files distributed by the
    Copyright Holder, and derivatives of that collection and/or of
    those files. A given Package may consist of either the Standard
    Version, or a Modified Version.

    "Distribute" means providing a copy of the Package or making it
    accessible to anyone else, or in the case of a company or
    organization, to others outside of your company or organization.

    "Distributor Fee" means any fee that you charge for Distributing
    this Package or providing support for this Package to another
    party.  It does not mean licensing fees.

    "Standard Version" refers to the Package if it has not been
    modified, or has been modified only in ways explicitly requested
    by the Copyright Holder.

    "Modified Version" means the Package, if it has been changed, and
    such changes were not explicitly requested by the Copyright
    Holder.

    "Original License" means this Artistic License as Distributed with
    the Standard Version of the Package, in its current version or as
    it may be modified by The Perl Foundation in the future.

    "Source" form means the source code, documentation source, and
    configuration files for the Package.

    "Compiled" form means the compiled bytecode, object code, binary,
    or any other form resulting from mechanical transformation or
    translation of the Source form.


Permission for Use and Modification Without Distribution

(1)  You are permitted to use the Standard Version and create and use
Modified Versions for any purpose without restriction, provided that
```

```
you do not Distribute the Modified Version.


Permissions for Redistribution of the Standard Version

(2)  You may Distribute verbatim copies of the Source form of the
Standard Version of this Package in any medium without restriction,
either gratis or for a Distributor Fee, provided that you duplicate
all of the original copyright notices and associated disclaimers.  At
your discretion, such verbatim copies may or may not include a
Compiled form of the Package.

(3)  You may apply any bug fixes, portability changes, and other
modifications made available from the Copyright Holder.  The resulting
Package will still be considered the Standard Version, and as such
will be subject to the Original License.


Distribution of Modified Versions of the Package as Source

(4)  You may Distribute your Modified Version as Source (either gratis
or for a Distributor Fee, and with or without a Compiled form of the
Modified Version) provided that you clearly document how it differs
from the Standard Version, including, but not limited to, documenting
any non-standard features, executables, or modules, and provided that
you do at least ONE of the following:

    (a)  make the Modified Version available to the Copyright Holder
    of the Standard Version, under the Original License, so that the
    Copyright Holder may include your modifications in the Standard
    Version.

    (b)  ensure that installation of your Modified Version does not
    prevent the user installing or running the Standard Version. In
    addition, the Modified Version must bear a name that is different
    from the name of the Standard Version.

    (c)  allow anyone who receives a copy of the Modified Version to
    make the Source form of the Modified Version available to others
    under

  (i)  the Original License or

  (ii)  a license that permits the licensee to freely copy,
  modify and redistribute the Modified Version using the same
  licensing terms that apply to the copy that the licensee
  received, and requires that the Source form of the Modified
  Version, and of any works derived from it, be made freely
  available in that license fees are prohibited but Distributor
  Fees are allowed.


Distribution of Compiled Forms of the Standard Version
or Modified Versions without the Source

(5)  You may Distribute Compiled forms of the Standard Version without
the Source, provided that you include complete instructions on how to
get the Source of the Standard Version.  Such instructions must be
valid at the time of your distribution.  If these instructions, at any
time while you are carrying out such distribution, become invalid, you
must provide new instructions on demand or cease further distribution.
If you provide valid instructions or cease distribution within thirty
days after you become aware that the instructions are invalid, then
you do not forfeit any of your rights under this license.
```

```
(6)  You may Distribute a Modified Version in Compiled form without
the Source, provided that you comply with Section 4 with respect to
the Source of the Modified Version.


Aggregating or Linking the Package

(7)  You may aggregate the Package (either the Standard Version or
Modified Version) with other packages and Distribute the resulting
aggregation provided that you do not charge a licensing fee for the
Package.  Distributor Fees are permitted, and licensing fees for other
components in the aggregation are permitted. The terms of this license
apply to the use and Distribution of the Standard or Modified Versions
as included in the aggregation.

(8) You are permitted to link Modified and Standard Versions with
other works, to embed the Package in a larger work of your own, or to
build stand-alone binary or bytecode versions of applications that
include the Package, and Distribute the result without restriction,
provided the result does not expose a direct interface to the Package.


Items That are Not Considered Part of a Modified Version

(9) Works (including, but not limited to, modules and scripts) that
merely extend or make use of the Package, do not, by themselves, cause
the Package to be a Modified Version.  In addition, such works are not
considered parts of the Package itself, and are not subject to the
terms of this license.


General Provisions

(10)  Any use, modification, and distribution of the Standard or
Modified Versions is governed by this Artistic License. By using,
modifying or distributing the Package, you accept this license. Do not
use, modify, or distribute the Package, if you do not accept this
license.

(11)  If your Modified Version has been derived from a Modified
Version made by someone other than you, you are nevertheless required
to ensure that your Modified Version complies with the requirements of
this license.

(12)  This license does not grant you the right to use any trademark,
service mark, tradename, or logo of the Copyright Holder.

(13)  This license includes the non-exclusive, worldwide,
free-of-charge patent license to make, have made, use, offer to sell,
sell, import and otherwise transfer the Package with respect to any
patent claims licensable by the Copyright Holder that are necessarily
infringed by the Package. If you institute patent litigation
(including a cross-claim or counterclaim) against any party alleging
that the Package constitutes direct or contributory patent
infringement, then this Artistic License to you shall terminate on the
date that such litigation is filed.

(14)  Disclaimer of Warranty:
THE PACKAGE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS
IS' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES. THE IMPLIED
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
NON-INFRINGEMENT ARE DISCLAIMED TO THE EXTENT PERMITTED BY YOUR LOCAL
LAW. UNLESS REQUIRED BY LAW, NO COPYRIGHT HOLDER OR CONTRIBUTOR WILL
```

```
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL
DAMAGES ARISING IN ANY WAY OUT OF THE USE OF THE PACKAGE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------

random.c:


  This file contains the source code under the new-style BSD license.

  >>>
    A C-program for MT19937, with initialization improved 2002/2/10.
    Coded by Takuji Nishimura and Makoto Matsumoto.
    This is a faster version by taking Shawn Cokus's optimization,
    Matthe Bellew's simplification, Isaku Wada's real version.

    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).

    Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:

    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    3. The names of its contributors may not be used to endorse or promote
       products derived from this software without specific prior written
       permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
    "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
    LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
    A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT
 OWNER OR
    CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
    EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
    PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
    PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
    LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
    NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
    SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


    Any feedback is very welcome.
    http://www.math.keio.ac.jp/matumoto/emt.html
    email: matumoto@math.keio.ac.jp

  The Wayback Machine url: http://web.archive.org/web/19990429082237/http://
www.math.keio.ac.jp/matumoto/emt.html

vm_dump.c:procstat_vm::

  This file contains the source code under the new-style BSD license.

  >>>
```

```
    Copyright (c) 2007 Robert N. M. Watson
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

    $FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11
 21:57:37Z jhb $

vsnprintf.c::

  This file is under the old-style BSD license.  Note that the
  paragraph 3 below is now null and void.

  >>>
    Copyright (c) 1990, 1993
    The Regents of the University of California.  All rights reserved.

    This code is derived from software contributed to Berkeley by
    Chris Torek.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the University nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
```

```
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

    IMPORTANT NOTE:
    --------------
    From ftp://ftp.cs.berkeley.edu/pub/4bsd/README.Impt.License.Change
    paragraph 3 above is now null and void.

st.c::
strftime.c::
include/ruby/st.h::
missing/acosh.c::
missing/alloca.c::
missing/dup2.c::
missing/erf.c::
missing/finite.c::
missing/hypot.c::
missing/isinf.c::
missing/isnan.c::
missing/lgamma_r.c::
missing/memcmp.c::
missing/memmove.c::
missing/strchr.c::
missing/strerror.c::
missing/strstr.c::
missing/tgamma.c::
ext/date/date_strftime.c::
ext/digest/sha1/sha1.c::
ext/digest/sha1/sha1.h::
ext/sdbm/_sdbm.c::
ext/sdbm/sdbm.h::

  These files are all under public domain.

missing/crypt.c::

  This file is under the old-style BSD license.  Note that the
  paragraph 3 below is now null and void.

  >>>
    Copyright (c) 1989, 1993
    The Regents of the University of California.  All rights reserved.

    This code is derived from software contributed to Berkeley by
    Tom Truscott.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the University nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

```
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

missing/setproctitle.c::

  This file is under the old-style BSD license.  Note that the
  paragraph 3 below is now null and void.

  >>>
    Copyright 2003 Damien Miller
    Copyright (c) 1983, 1995-1997 Eric P. Allman
    Copyright (c) 1988, 1993
    The Regents of the University of California.  All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the University nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

missing/strlcat.c::
missing/strlcpy.c::

  These files are under an ISC-style license.

  >>>
    Copyright (c) 1998, 2015 Todd C. Miller <Todd.Miller@courtesan.com>

    Permission to use, copy, modify, and distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.
```

```
    THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
    WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
    MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
    ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
    WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
    ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
    OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

missing/langinfo.c::

  This file is from http://www.cl.cam.ac.uk/~mgk25/ucs/langinfo.c.
  Ruby uses a modified version. The file contains the following
  author/copyright notice:

  >>>
    Markus.Kuhn@cl.cam.ac.uk -- 2002-03-11
    Permission to use, copy, modify, and distribute this software
    for any purpose and without fee is hereby granted. The author
    disclaims all warranties with regard to this software.

ext/digest/md5/md5.c::
ext/digest/md5/md5.h::

  These files are under the following license.  Ruby uses modified
  versions of them.

  >>>
    Copyright (C) 1999, 2000 Aladdin Enterprises.  All rights reserved.

    This software is provided 'as-is', without any express or implied
    warranty.  In no event will the authors be held liable for any damages
    arising from the use of this software.

    Permission is granted to anyone to use this software for any purpose,
    including commercial applications, and to alter it and redistribute it
    freely, subject to the following restrictions:

    1. The origin of this software must not be misrepresented; you must not
       claim that you wrote the original software. If you use this software
       in a product, an acknowledgment in the product documentation would be
       appreciated but is not required.
    2. Altered source versions must be plainly marked as such, and must not
 be
       misrepresented as being the original software.
    3. This notice may not be removed or altered from any source
 distribution.

    L. Peter Deutsch
    ghost@aladdin.com

ext/digest/rmd160/rmd160.c::
ext/digest/rmd160/rmd160.h::

  These files have the following copyright information, and by the
  author we are allowed to use it under the new-style BSD license.

  >>>
    AUTHOR::  Antoon Bosselaers, ESAT-COSIC
              (Arranged for libc by Todd C. Miller)
    DATE::    1 March 1996

    Copyright (c) Katholieke Universiteit Leuven
    1996, All Rights Reserved
```

```
ext/digest/sha2/sha2.c::
ext/digest/sha2/sha2.h::

  These files are under the new-style BSD license.

  >>>
    Copyright 2000 Aaron D. Gifford.  All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the copyright holder nor the names of
 contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) AND CONTRIBUTOR(S) ``AS IS''
 AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR(S) OR CONTRIBUTOR(S) BE
 LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
    SUCH DAMAGE.

ext/json/generator/generator.c::

  The file contains the following copyright notice.

  >>>
    Copyright 2001-2004 Unicode, Inc.

    Disclaimer::

      This source code is provided as is by Unicode, Inc. No claims are
      made as to fitness for any particular purpose. No warranties of any
      kind are expressed or implied. The recipient agrees to determine
      applicability of information provided. If this file has been
      purchased on magnetic or optical media from Unicode, Inc., the
      sole remedy for any claim will be exchange of defective media
      within 90 days of receipt.

    Limitations on Rights to Redistribute This Code::

      Unicode, Inc. hereby grants the right to freely use the information
      supplied in this file in the creation of products supporting the
      Unicode Standard, and to make copies of this file in any form
      for internal or external distribution as long as this notice
      remains attached.
```

```
ext/nkf/nkf-utf8/config.h::
ext/nkf/nkf-utf8/nkf.c::
ext/nkf/nkf-utf8/utf8tbl.c::

  These files are under the following license.  So to speak, it is
  copyrighted semi-public-domain software.

  >>>
    Copyright (C) 1987, Fujitsu LTD. (Itaru ICHIKAWA)

    Everyone is permitted to do anything on this program
    including copying, modifying, improving,
    as long as you don't try to pretend that you wrote it.
    i.e., the above copyright notice has to appear in all copies.
    Binary distribution requires original version messages.
    You don't have to ask before copying, redistribution or publishing.
    THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE.

ext/psych::
test/psych::

  The files under these directories are under the following license, except
 for
  ext/psych/yaml.

  >>>
    Copyright 2009 Aaron Patterson, et al.

    Permission is hereby granted, free of charge, to any person obtaining a
 copy of
    this software and associated documentation files (the 'Software'), to
 deal in
    the Software without restriction, including without limitation the
 rights to
    use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
    of the Software, and to permit persons to whom the Software is furnished
 to do
    so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE.

ext/psych/yaml::

  The files under this directory are under the following license.

  >>>
    Copyright (c) 2006 Kirill Simonov
```

```
    Permission is hereby granted, free of charge, to any person obtaining a
 copy of
    this software and associated documentation files (the "Software"), to
 deal in
    the Software without restriction, including without limitation the
 rights to
    use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
    of the Software, and to permit persons to whom the Software is furnished
 to do
    so, subject to the following conditions:

    The above copyright notice and this permission notice shall be included
 in all
    copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
 OR
    IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
    AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
    LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
    OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
 IN THE
    SOFTWARE.

ext/socket/addrinfo.h::
ext/socket/getaddrinfo.c::
ext/socket/getnameinfo.c::

  These files are under the new-style BSD license.

  >>>
    Copyright (C) 1995, 1996, 1997, 1998, and 1999 WIDE Project.
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions
    are met:
    1. Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
    3. Neither the name of the project nor the names of its contributors
       may be used to endorse or promote products derived from this software
       without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE
    ARE DISCLAIMED.  IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
    FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
    OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
    HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
 STRICT
    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
 WAY
    OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
```

```
    SUCH DAMAGE.

ext/win32ole/win32ole.c::

  You can apply the Artistic License to this file. (or GPL,
  alternatively)

  >>>
    (c) 1995 Microsoft Corporation. All rights reserved.
    Developed by ActiveWare Internet Corp., http://www.ActiveWare.com

    Other modifications Copyright (c) 1997, 1998 by Gurusamy Sarathy
    <gsar@umich.edu> and Jan Dubois <jan.dubois@ibm.net>

    You may distribute under the terms of either the GNU General Public
    License or the Artistic License, as specified in the README file
    of the Perl distribution.

  The Wayback Machine url: http://web.archive.org/web/19970607104352/http://
www.activeware.com:80/

lib/rdoc/generator/template/darkfish/css/fonts.css::

  This file is licensed under the SIL Open Font License.

  >>>
    http://scripts.sil.org/OFL

spec/mspec::
spec/ruby::

  The files under these directories are under the following license.

  >>>
    Copyright (c) 2008 Engine Yard, Inc. All rights reserved.

    Permission is hereby granted, free of charge, to any person
    obtaining a copy of this software and associated documentation
    files (the "Software"), to deal in the Software without
    restriction, including without limitation the rights to use,
    copy, modify, merge, publish, distribute, sublicense, and/or sell
    copies of the Software, and to permit persons to whom the
    Software is furnished to do so, subject to the following
    conditions:

    The above copyright notice and this permission notice shall be
    included in all copies or substantial portions of the Software.

    THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
    EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
    OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
    NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
    HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
    WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
    FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
    OTHER DEALINGS IN THE SOFTWARE.

lib/rubygems.rb::
lib/rubygems::
test/rubygems::

  RubyGems is under the following license.

  >>>
```

```
    RubyGems is copyrighted free software by Chad Fowler, Rich Kilmer, Jim
    Weirich and others.  You can redistribute it and/or modify it under
    either the terms of the MIT license (see the file MIT.txt), or the
    conditions below:

    1. You may make and give away verbatim copies of the source form of the
       software without restriction, provided that you duplicate all of the
       original copyright notices and associated disclaimers.

    2. You may modify your copy of the software in any way, provided that
       you do at least ONE of the following:

       a. place your modifications in the Public Domain or otherwise
          make them Freely Available, such as by posting said
          modifications to Usenet or an equivalent medium, or by allowing
          the author to include your modifications in the software.

       b. use the modified software only within your corporation or
          organization.

       c. give non-standard executables non-standard names, with
          instructions on where to get the original software distribution.

       d. make other distribution arrangements with the author.

    3. You may distribute the software in object code or executable
       form, provided that you do at least ONE of the following:

       a. distribute the executables and library files of the software,
          together with instructions (in the manual page or equivalent)
          on where to get the original distribution.

       b. accompany the distribution with the machine-readable source of
          the software.

       c. give non-standard executables non-standard names, with
          instructions on where to get the original software distribution.

       d. make other distribution arrangements with the author.

    4. You may modify and include the part of the software into any other
       software (possibly commercial).

    5. The scripts and library files supplied as input to or produced as
       output from the software do not automatically fall under the
       copyright of the software, but belong to whomever generated them,
       and may be sold commercially, and may be aggregated with this
       software.

    6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
       IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
       WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
       PURPOSE.

lib/bundler::
lib/bundler.rb::
lib/bundler.gemspec::
spec/bundler::
man/bundle-*,gemfile.*::

  Bundler is under the following license.

  >>>
    Portions copyright (c) 2010 Andre Arko
```

```
    Portions copyright (c) 2009 Engine Yard

    MIT License::

      Permission is hereby granted, free of charge, to any person obtaining
      a copy of this software and associated documentation files (the
      "Software"), to deal in the Software without restriction, including
      without limitation the rights to use, copy, modify, merge, publish,
      distribute, sublicense, and/or sell copies of the Software, and to
      permit persons to whom the Software is furnished to do so, subject to
      the following conditions:

      The above copyright notice and this permission notice shall be
      included in all copies or substantial portions of the Software.

      THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
      EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
      MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
      NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
      LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
      OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
      WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
------------------------
rubylibs
----------------

Ruby is copyrighted free software by Yukihiro Matsumoto <matz@netlab.jp>.
You can redistribute it and/or modify it under either the terms of the
2-clause BSDL (see the file BSDL), or the conditions below:

  1. You may make and give away verbatim copies of the source form of the
     software without restriction, provided that you duplicate all of the
     original copyright notices and associated disclaimers.

  2. You may modify your copy of the software in any way, provided that
     you do at least ONE of the following:

       a) place your modifications in the Public Domain or otherwise
          make them Freely Available, such as by posting said
   modifications to Usenet or an equivalent medium, or by allowing
   the author to include your modifications in the software.

       b) use the modified software only within your corporation or
          organization.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.

  3. You may distribute the software in object code or binary form,
     provided that you do at least ONE of the following:

       a) distribute the binaries and library files of the software,
   together with instructions (in the manual page or equivalent)
   on where to get the original distribution.

       b) accompany the distribution with the machine-readable source of
   the software.

       c) give non-standard binaries non-standard names, with
          instructions on where to get the original software distribution.

       d) make other distribution arrangements with the author.
```

```
  4. You may modify and include the part of the software into any other
     software (possibly commercial).  But some files in the distribution
     are not written by the author, so that they are not under these terms.

     For the list of those files and their copying conditions, see the
     file LEGAL.

  5. The scripts and library files supplied as input to or produced as
     output from the software do not automatically fall under the
     copyright of the software, but belong to whomever generated them,
     and may be sold commercially, and may be aggregated with this
     software.

  6. THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
     IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
     WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
     PURPOSE.

--------------------------------
gdbm-libs
--------------------------------
      GNU GENERAL PUBLIC LICENSE
         Version 3, 29 June 2007

 Copyright (C) 2007, 2011 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

       Preamble

  The GNU General Public License is a free, copyleft license for
software and other kinds of works.

  The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

  To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.
```

```
  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

         TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
```

```
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
```

```
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

  Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed; section 10
makes it unnecessary.

  3. Protecting Users' Legal Rights From Anti-Circumvention Law.

  No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

  When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

  4. Conveying Verbatim Copies.

  You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

  5. Conveying Modified Source Versions.

  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

    d) If the work has interactive user interfaces, each must display
    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.
```

```
  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.

    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
```

or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of

```
that material) supplement the terms of this License with terms:

    a) Disclaiming warranty or limiting liability differently from the
    terms of sections 15 and 16 of this License; or

    b) Requiring preservation of specified reasonable legal notices or
    author attributions in that material or in the Appropriate Legal
    Notices displayed by works containing it; or

    c) Prohibiting misrepresentation of the origin of that material, or
    requiring that modified versions of such material be marked in
    reasonable ways as different from the original version; or

    d) Limiting the use for publicity purposes of names of licensors or
    authors of the material; or

    e) Declining to grant rights under trademark law for use of some
    trade names, trademarks, or service marks; or

    f) Requiring indemnification of licensors and authors of that
    material by anyone who conveys the material (or modified versions of
    it) with contractual assumptions of liability to the recipient, for
    any liability that these contractual assumptions directly impose on
    those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
```

```
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

  Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

  An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

  You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.
```

```
  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement).  To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients.  "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

  If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

  A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License.  You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

  Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

  12. No Surrender of Others' Freedom.

  If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
```

```
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
```

```
copy of the Program in return for a fee.

       END OF TERMS AND CONDITIONS

     How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show
 w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
```

Provider: 潘其威**(William) / Component(s): auto-gptq 0.7.1**

```
====================================Third Party
 Info====================================
```

```
auto-gptq
MIT License
MIT License

Copyright (c) 2023 潘其威(William)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

===================================Fourth Party
 Info===================================

accelerate
Apache Software License 2.0
Copyright 2021 The HuggingFace Team. All rights reserved.

----------------------------------------------
aiohttp
Apache Software License 2.0
Copyright aio-libs contributors.

----------------------------------------------
aiosignal
Apache Software License 2.0
©2013-2019, aiosignal contributors.
----------------------------------------------
attrs
MIT License
The MIT License (MIT)

Copyright (c) 2015 Hynek Schlawack and the attrs contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

```
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.


----------------------------------------------
certifi
Mozilla Public License 2.0 (MPL 2.0)
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/
builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58
 $Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the
 creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a
 Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the
 notice in Exhibit A, the Executable Form of such Source Code Form, and
 Modifications of such Source Code Form, in each case including portions
 thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B
 to the Covered Software; or

that the Covered Software was made available under the terms of version
 1.1 or earlier of the License, but not also under the terms of a Secondary
 License.
```

```
1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a
 separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at
 the time of the initial grant or subsequently, any and all of the rights
 conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion
 from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process,
 and apparatus claims, in any patent Licensable by such Contributor that
 would be infringed, but for the grant of the License, by the making, using,
 selling, offering for sale, having made, import, or transfer of either its
 Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser
 General Public License, Version 2.1, the GNU Affero General Public License,
 Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License.
 For legal entities, “You” includes any entity that controls, is controlled
 by, or is under common control with You. For purposes of this definition,
 “control” means (a) the power, direct or indirect, to cause the direction
 or management of such entity, whether by contract or otherwise, or (b)
 ownership of more than fifty percent (50%) of the outstanding shares or
 beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark)
 Licensable by such Contributor to use, reproduce, make available, modify,
 display, perform, distribute, and otherwise exploit its Contributions,
 either on an unmodified basis, with Modifications, or as part of a Larger
 Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale,
 have made, import, and otherwise transfer either its Contributions or its
 Contributor Version.

2.2. Effective Date
```

```
The licenses granted in Section 2.1 with respect to any Contribution
 become effective for each Contribution on the date the Contributor first
 distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under
 this License. No additional rights or licenses will be implied from
 the distribution or licensing of Covered Software under this License.
 Notwithstanding Section 2.1(b) above, no patent license is granted by a
 Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party's
 modifications of Covered Software, or (ii) the combination of its
 Contributions with other software (except as part of its Contributor
 Version); or

under Patent Claims infringed by Covered Software in the absence of its
 Contributions.

This License does not grant any rights in the trademarks, service marks,
 or logos of any Contributor (except as may be necessary to comply with the
 notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to
 distribute the Covered Software under a subsequent version of this License
 (see Section 10.2) or under the terms of a Secondary License (if permitted
 under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions
 are its original creation(s) or it has sufficient rights to grant the
 rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable
 copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in
 Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any
 Modifications that You create or to which You contribute, must be under
 the terms of this License. You must inform recipients that the Source Code
 Form of the Covered Software is governed by the terms of this License, and
 how they can obtain a copy of this License. You may not attempt to alter or
 restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as
 described in Section 3.1, and You must inform recipients of the Executable
 Form how they can obtain a copy of such Source Code Form by reasonable
 means in a timely manner, at a charge no more than the cost of distribution
 to the recipient; and

You may distribute such Executable Form under the terms of this License,
 or sublicense it under different terms, provided that the license for the
```

```
 Executable Form does not attempt to limit or alter the recipients' rights
 in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice,
 provided that You also comply with the requirements of this License for the
 Covered Software. If the Larger Work is a combination of Covered Software
 with a work governed by one or more Secondary Licenses, and the Covered
 Software is not Incompatible With Secondary Licenses, this License permits
 You to additionally distribute such Covered Software under the terms of
 such Secondary License(s), so that the recipient of the Larger Work may,
 at their option, further distribute the Covered Software under the terms of
 either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including
 copyright notices, patent notices, disclaimers of warranty, or limitations
 of liability) contained within the Source Code Form of the Covered
 Software, except that You may alter any license notices to the extent
 required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support,
 indemnity or liability obligations to one or more recipients of Covered
 Software. However, You may do so only on Your own behalf, and not on
 behalf of any Contributor. You must make it absolutely clear that any
 such warranty, support, indemnity, or liability obligation is offered
 by You alone, and You hereby agree to indemnify every Contributor for
 any liability incurred by such Contributor as a result of warranty,
 support, indemnity or liability terms You offer. You may include additional
 disclaimers of warranty and limitations of liability specific to any
 jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License
 with respect to some or all of the Covered Software due to statute,
 judicial order, or regulation then You must: (a) comply with the terms
 of this License to the maximum extent possible; and (b) describe the
 limitations and the code they affect. Such description must be placed in
 a text file included with all distributions of the Covered Software under
 this License. Except to the extent prohibited by statute or regulation,
 such description must be sufficiently detailed for a recipient of ordinary
 skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if
 You fail to comply with any of its terms. However, if You become compliant,
 then the rights granted under this License from a particular Contributor
 are reinstated (a) provisionally, unless and until such Contributor
 explicitly and finally terminates Your grants, and (b) on an ongoing basis,
 if such Contributor fails to notify You of the non-compliance by some
 reasonable means prior to 60 days after You have come back into compliance.
 Moreover, Your grants from a particular Contributor are reinstated on an
 ongoing basis if such Contributor notifies You of the non-compliance by
 some reasonable means, this is the first time You have received notice
 of non-compliance with this License from such Contributor, and You become
 compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
 infringement claim (excluding declaratory judgment actions, counter-
claims, and cross-claims) alleging that a Contributor Version directly or
 indirectly infringes any patent, then the rights granted to You by any and
 all Contributors for the Covered Software under Section 2.1 of this License
 shall terminate.
```

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party’s negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party’s ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version

```
 of this License if you rename the license and remove any references to
 the name of the license steward (except to note that such modified license
 differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
 Licenses
If You choose to distribute Source Code Form that is Incompatible With
 Secondary Licenses under the terms of this version of the License, the
 notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License,
 v. 2.0. If a copy of the MPL was not distributed with this file, You can
 obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
 then You may include the notice in a location (such as a LICENSE file in
 a relevant directory) where a recipient would be likely to look for such a
 notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - “Incompatible With Secondary Licenses” Notice
This Source Code Form is “Incompatible With Secondary Licenses”, as defined
 by the Mozilla Public License, v. 2.0.

----------------------------------------------
charset-normalizer
MIT License
MIT License

Copyright (c) 2019 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.
----------------------------------------------
datasets
Apache Software License 2.0
Copyright 2021 The HuggingFace Team. All rights reserved.

----------------------------------------------
dill
BSD License
Copyright (c) 2004-2016 California Institute of Technology.
Copyright (c) 2016-2024 The Uncertainty Quantification Foundation.
```

```
All rights reserved.

This software is available subject to the conditions and terms laid
out below. By downloading and using this software you are agreeing
to the following conditions.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    - Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

    - Neither the names of the copyright holders nor the names of any of
      the contributors may be used to endorse or promote products derived
      from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


----------------------------------------------
filelock
The Unlicense (Unlicense)
This is free and unencumbered software released into the public domain.

Anyone is free to copy, modify, publish, use, compile, sell, or
distribute this software, either in source code form or as a compiled
binary, for any purpose, commercial or non-commercial, and by any
means.

In jurisdictions that recognize copyright laws, the author or authors
of this software dedicate any and all copyright interest in the
software to the public domain. We make this dedication for the benefit
of the public at large and to the detriment of our heirs and
successors. We intend this dedication to be an overt act of
relinquishment in perpetuity of all present and future rights to this
software under copyright law.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org>

----------------------------------------------
frozenlist
```

```
Apache Software License 2.0
2013, frozenlist contributors
----------------------------------------------
fsspec
BSD License
BSD 3-Clause License

Copyright (c) 2018, Martin Durant
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
gekko
MIT
Copyright 2019 Advanced Process Solutions, LLC. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are
permitted provided that the following conditions are met:

   1. Redistributions of source code must retain the above copyright notice,
 this list of
      conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above copyright
 notice, this list
      of conditions and the following disclaimer in the documentation and/or
 other materials
      provided with the distribution.

THIS SOFTWARE IS PROVIDED BY APMONITOR "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL APMONITOR
 OR
```

```
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
 EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are
 those of the
authors and should not be interpreted as representing official policies,
 either expressed
or implied, of Advanced Process Solutions, LLC.

----------------------------------------------
huggingface-hub
Apache Software License 2.0
Copyright 2021 The HuggingFace Team. All rights reserved.
----------------------------------------------
idna
BSD License
BSD 3-Clause License

Copyright (c) 2013-2023, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
jinja2
BSD License
Copyright 2007 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
```

```
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
markupsafe
BSD License
Copyright 2010 Pallets

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1.  Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

2.  Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

3.  Neither the name of the copyright holder nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
mpmath
BSD License
Copyright (c) 2005-2021 Fredrik Johansson and mpmath contributors

All rights reserved.
```

```
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of the copyright holder nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

----------------------------------------------
multidict
Apache Software License 2.0
©2016, Andrew Svetlov and aio-libs contributors.
----------------------------------------------
multiprocess
BSD License
Copyright (c) 2006-2008, R Oudkerk

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of author nor the names of any contributors may be
   used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

----------------------------------------------
networkx
BSD License
NetworkX is distributed with the 3-clause BSD license.
```

```
::

   Copyright (C) 2004-2023, NetworkX Developers
   Aric Hagberg <hagberg@lanl.gov>
   Dan Schult <dschult@colgate.edu>
   Pieter Swart <swart@lanl.gov>
   All rights reserved.

   Redistribution and use in source and binary forms, with or without
   modification, are permitted provided that the following conditions are
   met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

     * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

     * Neither the name of the NetworkX Developers nor the names of its
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
   "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
   LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
   A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
   OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
   SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
   LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
   DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
   THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
   (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
   OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-----------------------------------------------
numpy
BSD License
Numpy (License and Copyright)
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

    * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
       copyright notice, this list of conditions and the following
       disclaimer in the documentation and/or other materials provided
       with the distribution.

    * Neither the name of the NumPy Developers nor the names of any
       contributors may be used to endorse or promote products derived
       from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
```

```
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----

This binary distribution of NumPy also bundles the following software:


Name: OpenBLAS
Files: extra-dll\libopenb*.dll
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
  Copyright (c) 2011-2014, The OpenBLAS Project
  All rights reserved.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

     1. Redistributions of source code must retain the above copyright
        notice, this list of conditions and the following disclaimer.

     2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions and the following disclaimer in
        the documentation and/or other materials provided with the
        distribution.
     3. Neither the name of the OpenBLAS project nor the names of
        its contributors may be used to endorse or promote products
        derived from this software without specific prior written
        permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS"
  AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
  LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
  SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
  CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
  OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
  USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Name: LAPACK
Files: extra-dll\libopenb*.dll
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD
  Copyright (c) 1992-2013 The University of Tennessee and The University
                          of Tennessee Research Foundation.  All rights
                          reserved.
  Copyright (c) 2000-2013 The University of California Berkeley. All
                          rights reserved.
  Copyright (c) 2006-2013 The University of Colorado Denver.  All rights
                          reserved.
```

```
  $COPYRIGHT$

  Additional copyrights may follow

  $HEADER$

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are
  met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer listed
    in this license in the documentation and/or other materials
    provided with the distribution.

  - Neither the name of the copyright holders nor the names of its
    contributors may be used to endorse or promote products derived from
    this software without specific prior written permission.

  The copyright holders provide no reassurances that the source code
  provided does not infringe any patent, copyright, or any other
  intellectual property rights of third parties.  The copyright holders
  disclaim any liability to any recipient for claims brought against
  recipient by any third party for infringement of that parties
  intellectual property rights.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
  A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
  OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
  SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
  LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
  OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


--------------------------------------------------------------------------------
LICENSES_bundled.txt
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
  For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
  For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
```

```
  For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
  For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled.txt
 --------------------
--------------------------------------------------------------------------------------------
lapack-lite
Copyright (c) 1992-2022 The University of Tennessee and The University
                        of Tennessee Research Foundation.  All rights
                        reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All
                        rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver.  All rights
                        reserved.

Additional copyrights may follow

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer listed
  in this license in the documentation and/or other materials
  provided with the distribution.

- Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties.  The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------------------
tempita

Copyright (c) 2022 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
```

```
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------
dragon4
  Copyright (c) 2022 Ryan Juckett

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, andor
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE
  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
  LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
  FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS
  IN THE SOFTWARE.

--------------------------------------------------------------------------------
libdivide

zlib License
  Copyright (C) 2010 - 2022 ridiculous_fish, <libdivide@ridiculousfish.com>
  Copyright (C) 2016 - 2022 Kim Walisch, <kim.walisch@gmail.com>

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source
 distribution.
```

```
--------------------------------------------------------------------------------
LICENSES_bundled in different directories:
--------------------------------------------------------------------------------

The NumPy repository and source distributions bundle several libraries that
 are
compatibly licensed.  We list these here.

Name: SPLITMIX64
Files: /numpy/blob/numpy/random/src/splitmix64/*
License: Sebastiano Vigna © 2005-2019 NumPy Developers, Licensed under the 3-
clause BSD License.
For details, see /numpy/blob/numpy/random/src/splitmix64/LICENSE.md

Name: SFC64
Files: /numpy/blob/numpy/random/src/sfc64/*
License: MIT
For details, see /numpy/blob/numpy/random/src/sfc64/LICENSE.md

Name: PHILOX
Files: /numpy/blob/numpy/random/src/philox/*
License: D. E. Shaw Research
For license text, see /numpy/blob/numpy/random/src/philox/LICENSE.md

Name: PCG64
Files: /numpy/blob/numpy/random/src/pcg64/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/pcg64/LICENSE.md

Name: MT19937
Files: /numpy/blob/numpy/random/src/mt19937/*
License: MIT
For license text, see/numpy/blob/numpy/random/src/mt19937/LICENSE.md

Name: Julia
Files: /numpy/blob/numpy/random/src/distributions/*
License: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and other
 contributors
For license text, see/numpy/blob/numpy/random/src/distributions/LICENSE.md

Name: Random
Files: /numpy/blob/numpy/random/*
License: dual-licensed under the The University of Illinois/NCSA Open Source
 License (NCSA) and The 3-Clause BSD License
For license text, see/numpy/blob/numpy/random/LICENSE.md

Name: nympy.core.ma
Files: /numpy/blob/numpy/ma/*
License: University of Georgia and Pierre G.F. Gerard-Marchant
For license text, see /numpy/blob/numpy/ma/LICENSE

--------------- RECURSIVE LICENSE Mentioned in  LICENSES_bundled in
 different directories (list above) --------------------
--------------------------------------------------------------------------------

Name: SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
 and related and neighboring rights to this software to the public domain
 worldwide. This software is distributed without any warranty.
```

See http://creativecommons.org/publicdomain/zero/1.0/.

Name: SFC64

© 2005-2019 NumPy Developers, Licensed under the 3-clause BSD License.

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: PHILOX

Copyright 2010-2012, D. E. Shaw Research. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

- Neither the name of D. E. Shaw Research nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
--------------------------------------------------------------------------------
Name: PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of
 the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights
 reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

   -  Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

   -  Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

    - The names of its contributors may not be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
```

```
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from
 Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised
 by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah, and
 other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal in the Software without restriction, including without limitation the
 rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 sell copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS IN THE SOFTWARE.

--------------------------------------------------------------------------------

Name: Random

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.
```

```
Developed by: Kevin Sheppard (kevin.sheppard@economics.ox.ac.uk,
 kevin.k.sheppard@gmail.com) http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to
 deal with the Software without restriction, including without limitation
 the rights to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell copies of the Software, and to permit persons to whom the
 Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimers in the documentation
 and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may
 be used to endorse or promote products derived from this Software without
 specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
 DEALINGS WITH THE SOFTWARE.

3-Clause BSD License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

    - Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.

    - Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

   - Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from this
 software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources, often the
 algorithm's designer. Component licenses are located with the component
 code.
```

```
--------------------------------------------------------------------------------

Name: nympy.core.ma

Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
All rights reserved.
Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions are met:

     * Redistributions of source code must retain the above copyright
       notice, this list of conditions and the following disclaimer.
     * Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.
     * Neither the name of the University of Georgia nor the
        names of its contributors may be used to endorse or promote products
        derived from this software without specific prior written
 permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
 DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
 SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

----------------------------------------------
packaging
Apache Software License; BSD License
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is
 made
under the terms of *both* these licenses.

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    1. Redistributions of source code must retain the above copyright
 notice,
       this list of conditions and the following disclaimer.

    2. Redistributions in binary form must reproduce the above copyright
       notice, this list of conditions and the following disclaimer in the
       documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
```

```
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
----------------------------------------------
pandas
BSD License
BSD 3-Clause License

Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc.
 and PyData Development Team
All rights reserved.

Copyright (c) 2011-2023, Open source contributors.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
peft
Apache Software License 2.0
Copyright 2023 The HuggingFace Team. All rights reserved.
----------------------------------------------
psutil
BSD License
BSD 3-Clause License

Copyright (c) 2009, Jay Loden, Dave Daeschler, Giampaolo Rodola
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:
```

```
 * Redistributions of source code must retain the above copyright notice,
 this
   list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

 * Neither the name of the psutil authors nor the names of its contributors
   may be used to endorse or promote products derived from this software
 without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
 FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
pyarrow
Apache Software License 2.0
2016-2024 Apache Software Foundation.
Apache Arrow, Arrow, Apache, the Apache feather logo, and the Apache Arrow
project logo are either registered trademarks or trademarks of The Apache
Software Foundation in the United States and other countries.
----------------------------------------------
pyarrow-hotfix
Apache License, Version 2.0
2023-present Antoine Pitrou <antoine@python.org>

----------------------------------------------
python-dateutil
Apache Software License; BSD License
Copyright 2017- Paul Ganssle <paul@ganssle.io>
Copyright 2017- dateutil contributors (see AUTHORS file)

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

The above license applies to all contributions after 2017-12-01, as well as
all contributions that have been re-licensed (see AUTHORS file for the list
 of
contributors who have re-licensed their code).
```

```
--------------------------------------------------------------------------------
dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015-     - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015-     - dateutil contributors (see AUTHORS file)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.
    * Neither the name of the copyright holder nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER
 OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above BSD License Applies to all code, even that also covered by Apache
 2.0.
----------------------------------------------
pytz
MIT License
Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

----------------------------------------------
```

```
pyyaml
MIT License
Copyright (c) 2017-2021 Ingy döt Net
Copyright (c) 2006-2016 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies
of the Software, and to permit persons to whom the Software is furnished to
 do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
regex
Apache Software License 2.0

This work was derived from the 're' module of CPython 2.6 and CPython 3.1,
copyright (c) 1998-2001 by Secret Labs AB and licensed under CNRI's Python
 1.6
license.

Copyright 2020 Matthew Barnett
All additions and alterations are licensed under the Apache 2.0 License.

----------------------------------------------
requests
Apache Software License 2.0
Copyright 2019 Kenneth Reitz. All rights reserved.

----------------------------------------------
rouge
Apache Software License 2.0
Copyright Paul Tardy

----------------------------------------------
safetensors
Apache Software License 2.0
Copyright 2024 The HuggingFace Team. All rights reserved.
----------------------------------------------
sentencepiece
Apache Software License 2.0
Copyright 2016-2018 Google Inc.

----------------------------------------------
six
MIT License
```

```
Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
sympy
BSD License
Copyright (c) 2006-2023 SymPy Development Team

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  a. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.
  b. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.
  c. Neither the name of SymPy nor the names of its contributors
     may be used to endorse or promote products derived from this software
     without specific prior written permission.


THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

--------------------------------------------------------------------------------

Patches that were taken from the Diofant project (https://github.com/
diofant/diofant)
are licensed as:
```

Copyright (c) 2006-2018 SymPy Development Team,
2013-2023 Sergey B Kirpichev

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
c. Neither the name of Diofant or SymPy nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Submodules taken from the multipledispatch project (https://github.com/mrocklin/multipledispatch)
are licensed as:

Copyright (c) 2014 Matthew Rocklin

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
c. Neither the name of multipledispatch nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH

```
DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/autolev/tests/pydy-example-repo
are directly copied from PyDy project and are licensed as:

Copyright (c) 2009-2023, PyDy Authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of this project nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL PYDY AUTHORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

--------------------------------------------------------------------------------

The files under the directory sympy/parsing/latex
are directly copied from latex2sympy project and are licensed as:

Copyright 2016, latex2sympy

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
```

```
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

---------------------------------------------
tokenizers
Apache Software License 2.0
2020, huggingface

---------------------------------------------
torch
BSD License
From PyTorch:

Copyright (c) 2016-     Facebook, Inc            (Adam Paszke)
Copyright (c) 2014-     Facebook, Inc            (Soumith Chintala)
Copyright (c) 2011-2014 Idiap Research Institute (Ronan Collobert)
Copyright (c) 2012-2014 Deepmind Technologies    (Koray Kavukcuoglu)
Copyright (c) 2011-2012 NEC Laboratories America (Koray Kavukcuoglu)
Copyright (c) 2011-2013 NYU                      (Clement Farabet)
Copyright (c) 2006-2010 NEC Laboratories America (Ronan Collobert, Leon
 Bottou, Iain Melvin, Jason Weston)
Copyright (c) 2006      Idiap Research Institute (Samy Bengio)
Copyright (c) 2001-2004 Idiap Research Institute (Ronan Collobert, Samy
 Bengio, Johnny Mariethoz)

From Caffe2:

Copyright (c) 2016-present, Facebook Inc. All rights reserved.

All contributions by Facebook:
Copyright (c) 2016 Facebook Inc.

All contributions by Google:
Copyright (c) 2015 Google Inc.
All rights reserved.

All contributions by Yangqing Jia:
Copyright (c) 2015 Yangqing Jia
All rights reserved.

All contributions by Kakao Brain:
Copyright 2019-2020 Kakao Brain

All contributions by Cruise LLC:
Copyright (c) 2022 Cruise LLC.
All rights reserved.

All contributions from Caffe:
Copyright(c) 2013, 2014, 2015, the respective contributors
All rights reserved.

All other contributions:
Copyright(c) 2015, 2016 the respective contributors
All rights reserved.

Caffe2 uses a copyright model similar to Caffe: each contributor holds
copyright over their contributions to Caffe2. The project versioning records
all such contribution and copyright details. If a contributor wants to
 further
mark their specific copyright on a particular contribution, they should
indicate their copyright solely in the commit message of the change when it
 is
committed.
```

```
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the names of Facebook, Deepmind Technologies, NYU, NEC
 Laboratories America
   and IDIAP Research Institute nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
-----------------------------------------------
tqdm
MIT License; Mozilla Public License 2.0 (MPL 2.0)
`tqdm` is a product of collaborative work.
Unless otherwise stated, all authors (see commit logs) retain copyright
for their respective work, and release the work under the MIT licence
(text below).

Exceptions or notable authors are listed below
in reverse chronological order:

* files: *
  MPL-2.0 2015-2024 (c) Casper da Costa-Luis
  [casperdcl](https://github.com/casperdcl).
* files: tqdm/_tqdm.py
  MIT 2016 (c) [PR #96] on behalf of Google Inc.
* files: tqdm/_tqdm.py README.rst .gitignore
  MIT 2013 (c) Noam Yorav-Raphael, original author.

[PR #96]: https://github.com/tqdm/tqdm/pull/96


Mozilla Public Licence (MPL) v. 2.0 - Exhibit A
-----------------------------------------------

This Source Code Form is subject to the terms of the
Mozilla Public License, v. 2.0.
If a copy of the MPL was not distributed with this project,
You can obtain one at https://mozilla.org/MPL/2.0/.


MIT License (MIT)
-----------------
```

```
Copyright (c) 2013 noamraph

Permission is hereby granted, free of charge, to any person obtaining a copy
 of
this software and associated documentation files (the "Software"), to deal
 in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of
the Software, and to permit persons to whom the Software is furnished to do
 so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
transformers
Apache Software License 2.0
Copyright 2018- The Hugging Face team. All rights reserved.

----------------------------------------------
typing_extensions
Python Software Foundation License
A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)
```

```
    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL.  All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source.  The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.


B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
===============================================================

Python software and documentation are licensed under the
Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in
the documentation are dual licensed under the PSF License Version 2
and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.
The licenses are listed with code falling under that license.


PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
--------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to
 reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of
 copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009,
 2010,
2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
 Python Software Foundation;
All Rights Reserved" are retained in Python alone or in any derivative
 version
```

```
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis.  PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee.  This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0
-------------------------------------------

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis.  BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
```

```
5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions.  Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee.  This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party.  As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.


CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---------------------------------------

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization
("Licensee") accessing and otherwise using Python 1.6.1 software in
source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python 1.6.1
alone or in any derivative version, provided, however, that CNRI's
License Agreement and CNRI's notice of copyright, i.e., "Copyright (c)
1995-2001 Corporation for National Research Initiatives; All Rights
Reserved" are retained in Python 1.6.1 alone or in any derivative
version prepared by Licensee.  Alternately, in lieu of CNRI's License
Agreement, Licensee may substitute the following text (omitting the
quotes): "Python 1.6.1 is made available subject to the terms and
conditions in CNRI's License Agreement.  This Agreement together with
Python 1.6.1 may be located on the internet using the following
unique, persistent identifier (known as a handle): 1895.22/1013.  This
Agreement may also be obtained from a proxy server on the internet
using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis.  CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED.  BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.
```

```
6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement.  Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee.  This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

        ACCEPT


CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2
--------------------------------------------------

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands.  All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION
-------------------------------------------------------------------------

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
```

```
PERFORMANCE OF THIS SOFTWARE.

----------------------------------------------
tzdata
MIT License
Copyright (c) 2014 Lau Taarnskov
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

----------------------------------------------
urllib3
MIT License
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
 deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
 all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
 THE
SOFTWARE.

----------------------------------------------
xxhash
BSD License
Copyright (c) 2014-2020, Yue Du
All rights reserved.

Redistribution and use in source and binary forms, with or without
 modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
```

```
    * Redistributions in binary form must reproduce the above copyright
 notice,
      this list of conditions and the following disclaimer in the
 documentation
      and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
 USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

----------------------------------------------
yarl
Apache Software License 2.0
©2016, Andrew Svetlov, yarl contributors and aio-libs team.
----------------------------------------------
===================================Licenses===================================

Apache License, Version 2.0

                                Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.
```

```
      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

      "Derivative Works" shall mean any work, whether in Source or Object
      form, that is based on (or derived from) the Work and for which the
      editorial revisions, annotations, elaborations, or other modifications
      represent, as a whole, an original work of authorship. For the
purposes
      of this License, Derivative Works shall not include works that remain
      separable from, or merely link (or bind by name) to the interfaces of,
      the Work and Derivative Works thereof.

      "Contribution" shall mean any work of authorship, including
      the original version of the Work and any modifications or additions
      to that Work or Derivative Works thereof, that is intentionally
      submitted to Licensor for inclusion in the Work by the copyright owner
      or by an individual or Legal Entity authorized to submit on behalf of
      the copyright owner. For the purposes of this definition, "submitted"
      means any form of electronic, verbal, or written communication sent
      to the Licensor or its representatives, including but not limited to
      communication on electronic mailing lists, source code control
systems,
      and issue tracking systems that are managed by, or on behalf of, the
      Licensor for the purpose of discussing and improving the Work, but
      excluding communication that is conspicuously marked or otherwise
      designated in writing by the copyright owner as "Not a Contribution."

      "Contributor" shall mean Licensor and any individual or Legal Entity
      on behalf of whom a Contribution has been received by Licensor and
      subsequently incorporated within the Work.

   2. Grant of Copyright License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      copyright license to reproduce, prepare Derivative Works of,
      publicly display, publicly perform, sublicense, and distribute the
      Work and such Derivative Works in Source or Object form.

   3. Grant of Patent License. Subject to the terms and conditions of
      this License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and
```

```
      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents
          of the NOTICE file are for informational purposes only and
          do not modify the License. You may add Your own attribution
          notices within Derivative Works that You distribute, alongside
          or as an addendum to the NOTICE text from the Work, provided
          that such additional attribution notices cannot be construed
          as modifying the License.

      You may add Your own copyright statement to Your modifications and
      may provide additional or different license terms and conditions
      for use, reproduction, or distribution of Your modifications, or
      for any such Derivative Works as a whole, provided Your use,
      reproduction, and distribution of the Work otherwise complies with
      the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work
      by You to the Licensor shall be under the terms and conditions of
      this License, without any additional terms or conditions.
      Notwithstanding the above, nothing herein shall supersede or modify
      the terms of any separate license agreement you may have executed
      with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
      names, trademarks, service marks, or product names of the Licensor,
      except as required for reasonable and customary use in describing the
      origin of the Work and reproducing the content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
      agreed to in writing, Licensor provides the Work (and each
      Contributor provides its Contributions) on an "AS IS" BASIS,
      WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
      implied, including, without limitation, any warranties or conditions
      of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
      PARTICULAR PURPOSE. You are solely responsible for determining the
      appropriateness of using or redistributing the Work and assume any
      risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
      whether in tort (including negligence), contract, or otherwise,
      unless required by applicable law (such as deliberate and grossly
      negligent acts) or agreed to in writing, shall any Contributor be
      liable to You for damages, including any direct, indirect, special,
      incidental, or consequential damages of any character arising as a
      result of this License or out of the use or inability to use the
      Work (including but not limited to damages for loss of goodwill,
```

```
      work stoppage, computer failure or malfunction, or any and all
      other commercial damages or losses), even if such Contributor
      has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
      the Work or Derivative Works thereof, You may choose to offer,
      and charge a fee for, acceptance of support, warranty, indemnity,
      or other liability obligations and/or rights consistent with this
      License. However, in accepting such obligations, You may act only
      on Your own behalf and on Your sole responsibility, not on behalf
      of any other Contributor, and only if You agree to indemnify,
      defend, and hold each Contributor harmless for any liability
      incurred by, or claims asserted against, such Contributor by reason
      of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

      To apply the Apache License to your work, attach the following
      boilerplate notice, with the fields enclosed by brackets "[]"
      replaced with your own identifying information. (Don't include
      the brackets!)  The text should be enclosed in the appropriate
      comment syntax for the file format. We also recommend that a
      file or class name and description of purpose be included on the
      same "printed page" as the copyright notice for easier
      identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

       http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

-----------------------------------------------
```